



- Compact, impact-resistant enclosures, also in versions with integrated metal bracket for the optimised assembly of cable glands
- Customer-specific equipping with terminals, cable glands and miniature fuses
- Degree of protection IP66

WebCode **8118B**

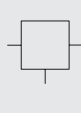
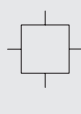
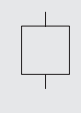


R. STAHL Series 8118 terminal boxes are equipped, in accordance with customer specifications, with various series terminals and cable glands made from plastic or metal, if required also with miniature fuses. They are available in 3 design sizes and are made from glass fibre reinforced polyester resin.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

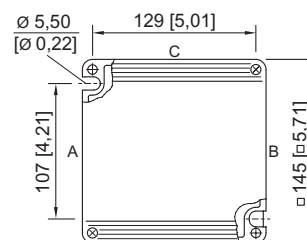
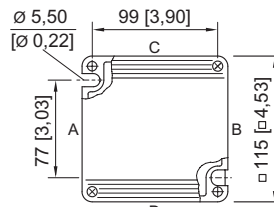
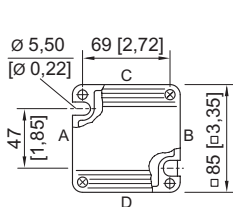
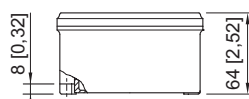
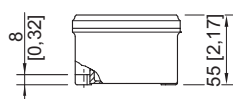
Product Description		Ex e terminal box						
Gas temperature class		T5						
Ambient temperature °C		-50 ... +55 °C						
Figure	Product Type	Cable Glands	Terminal	Terminal rail	Rated operational voltage AC	Art. No.	PS	Weight kg
	8118/122-331-GB	2 x Stopping plug M20 x 1,5	6 x Weidmüller WDU 2-conductor, 2.5 mm², beige 2 x Weidmüller WPE 2-conductor, 4 mm², green-yellow	–	690 V	133117 ▲	10	0.720
	8118/122-305-GB	2 x Stopping plug M25 x 1,5	6 x Weidmüller WDU 2-conductor, 2.5 mm², beige 2 x Weidmüller WPE 2-conductor, 4 mm², green-yellow	–	690 V	133123 ▲	10	0.720
Product Description		Ex e terminal box						
Gas temperature class		T6						
Ambient temperature °C		-50 ... +40 °C						
Figure	Product Type	Cable Glands	Terminal	Terminal rail	Rated operational voltage AC	Art. No.	PS	Weight kg
	8118/122-504-2	1 x Stopping plug M25 x 1,5	5 x WAGO 2002 3-conductor, 2.5 mm², grey 1 x WAGO 2002 3-conductor, 2.5 mm², green-yellow	–	550 V	202995 ▲	10	0.680
	8118/132-542-2	2 x Stopping plug M25 x 1,5	7 x WAGO 2002 4-conductor, 2.5 mm², grey 1 x WAGO 2002 4-conductor, 2.5 mm², green-yellow	–	550 V	202996	10	0.890

Selection Table								
Product Description		Ex e terminal box						
Gas temperature class		T6						
Ambient temperature °C		-40 ... +40 °C						
Figure	Product Type	Cable Glands	Terminal	Terminal rail	Rated operational voltage AC	Art. No.	PS	Weight kg
	8118/112-047-0	2 x Black cable entry M20 Ø 6 ... 13 mm 1 x Stopping plug (Provided separately) M20 x 1,5	3 x WAGO 264 2-conductor, 2,5 mm ² , grey 1 x WAGO 264 4-conductor, 2,5 mm ² , green-yellow	15 x 70 mm (1x)	690 V	224642 ▲	10	0.360
	8118/122-504-0	3 x Black cable entry M25 Ø 7 ... 17 mm 2 x Stopping plug M25 x 1,5	11 x Phoenix UT 2-conductor, 4 mm ² , grey 2 x Phoenix USLKG 2-conductor, 4 mm ² , green-yellow	35 x 90 mm (1x)	690 V	224644 ▲	10	0.610
	8118/132-542-0	4 x Black cable entry M25 Ø 7 ... 17 mm 2 x Stopping plug M25 x 1,5	11 x Phoenix UT 2-conductor, 4 mm ² , grey 2 x Phoenix USLKG 2-conductor, 4 mm ² , green-yellow	35 x 120 mm (1x)	690 V	224646 ▲	10	0.890
Product Description		Ex e terminal box						
Gas temperature class		T6						
Ambient temperature °C		-20 ... +40 °C						
Figure	Product Type	Cable Glands	Terminal	Terminal rail	Rated operational voltage AC	Art. No.	PS	Weight kg
	8118/122-199-K0125	1 x Black cable entry M25 Ø 7 ... 17 mm 1 x Cable gland with strain relief M25 x 1,5	4 x Phoenix UT 2-conductor, 4 mm ² , grey 1 x Phoenix UT 2-conductor, 4 mm ² , green-yellow	-	690 V	220336	10	0.580
Product Description		Ex i terminal box						
Gas temperature class		T6						
Ambient temperature °C		-40 ... +75 °C						
Figure	Product Type	Cable Glands	Terminal	Terminal rail	Rated operational voltage AC	Art. No.	PS	Weight kg
	8118/212-047-0	2 x Blue cable entry M20 Ø 4 ... 13 mm 1 x Stopping plug (Provided separately) M20 x 1,5	3 x WAGO 264 4-conductor, 2,5 mm ² , blue 1 x WAGO 264 4-conductor, 2,5 mm ² , grey	15 x 70 mm (1x)	60 V	224643 ▲	10	0.360
	8118/222-504-0	3 x Blue cable entry M25 Ø 7 ... 17 mm 2 x Stopping plug M25 x 1,5	9 x Phoenix UT 2-conductor, 4 mm ² , blue 2 x Phoenix UT 2-conductor, 4 mm ² , grey	35 x 90 mm (1x)	60 V	224645 ▲	10	0.610
	8118/232-542-0	4 x Blue cable entry M25 Ø 7 ... 17 mm 2 x Stopping plug M25 x 1,5	9 x Phoenix UT 2-conductor, 4 mm ² , blue 2 x Phoenix UT 2-conductor, 4 mm ² , grey	35 x 120 mm (1x)	60 V	224647	10	0.890
Enclosure equipped with terminals Stopping plugs are enclosed separately								
¹for metal cable glands								

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Technical Data			
Variant	Ex e terminal box T5	Ex e terminal box T6	Ex i terminal box T6
Explosion Protection			
Gas explosion protection IECEx	Ex eb IIC T5 Gb	Ex eb IIC T6 Gb	Ex ia ib IIC T6 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex eb IIC T5 Gb	⊕ II 2 G Ex eb IIC T6 Gb	⊕ II 2 G Ex ia ib IIC T6 Gb
Gas explosion protection EAC	1 Ex e d ia mb IIC T6...T3 Gb X	1 Ex e d ia mb IIC T6...T3 Gb X	1 Ex e d ia mb IIC T6...T3 Gb X
Dust explosion protection IECEx	Ex tb IIIC T95 °C Db	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T95 °C Db	⊕ II 2 D Ex tb IIIC T80 °C Db	⊕ II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tb IIIC T80° ... T135°C DbX	Ex tb IIIC T80° ... T135°C DbX	Ex tb IIIC T80° ... T135°C DbX
Certificates	ATEX (PTB), Brazil (ULB), China (CQST), EAC (LPE), IECEx (PTB)	ATEX (PTB), Brazil (ULB), China (CQST), EAC (LPE), IECEx (PTB)	ATEX (PTB), Brazil (ULB), China (CQST), EAC (LPE), IECEx (PTB)
Ship approval	BVIS	BVIS	BVIS
Mechanical Data			
Degree of protection (IP)	IP66	IP66	IP66
Type of protection note	according to IEC/EN 60529	according to IEC/EN 60529	according to IEC/EN 60529
Enclosure material	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced
Silicone-free	No	No	No

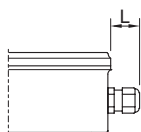
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



8118/.1.
enclosure size 1

8118/.2.
enclosure size 2

8118/.3.
enclosure size 3



Length L
 protrusion length for cable glands, Series 8161
 in case of M20: 25 ... 31 mm
 in case of M25: 27 ... 33 mm
 in case of M32: 32 ... 39 mm
 protrusion length for cable glands with strain relief,
 Series HSK-K-MZ
 in case of M25: 41 mm

Maximum Number of Mountable Cable Glands Series 8161

		Enclosure size/side		
		8118/1.	8118/2.	8118/3.
Type	Size	Side C / D	Side C / D	Side C / D
	M16 x 1.5	2	3	5
	M20 x 1.5	1	3	4
	M25 x 1.5	-	2	3
	M32 x 1.5	-	1	2



TERMINAL BOX CONFIGURATOR HELP

The Terminal Box Configurator of R. STAHL ensures to generate your terminal box individually according to your specifications.

You can use the Terminal Box Configurator to specify your customised terminal box in accordance with your requirements and choose between 8146 GRP and 8150 stainless steel enclosures. It offers a variety of terminals, cable glands and blanking plugs. TAG Labels can be individually specified in either plastic or stainless steel. PE and PA connections are automatically included. The temperature class depends on the ambient temperature. Should you require a higher ambient temperature, then please reduce the temperature class from T6 to T5 or T4.

As a guest user you can configure your terminal box and request a quotation.

As a registered user in Germany you have unlimited access to all functions of the Terminal Box Configurator including prices. You can also request a quotation as well as place an order right away.

Up to 25 terminal boxes can be assembled via our fast production line ready for despatch to many European destinations within just three working days.

Configure your terminal box at r-stahl.com/configurator now.

Should you have any questions please do not hesitate to get in touch with our sales contact.

Shopping Cart

new configuration

Start a new configuration

- Select a relevant picture

edit position

Amendment of configured item

- Tick relevant item
- Click on "edit position"

copy to clipboard

Copy configured items to clipboard

- Tick relevant item(s)
- Click on "copy to clipboard"

delete selected

Delete configured item from shopping cart

- Tick relevant item(s)
- Click on "delete selected"

update shopping cart

Update shopping cart when amending quantities

- Amend quantities of relevant item(s)
- Click on "update shopping cart"

finish

Request quotation or place order

- Check / amend quantities
- Click on "finish"

Technical data of configured item

- Tick relevant item
- Click on "info button"

Overview of configured items via e-mail

- Tick relevant item(s)
- Click on "envelope button"

Clipboard

copy to clipboard

Copy configured items to clipboard

- Tick relevant item(s)
- Click on "copy to clipboard"

delete selected

Delete configured item from shopping cart

- Tick relevant item(s)
- Click on "delete selected"

Overview of configured items via e-mail

- Tick relevant item(s)
- Click on "envelope button"



- Wide range of Ex e terminal boxes in various sizes and materials, degree of protection IP66
- Customised equipping in accordance with customer specifications
- Enclosures with captive cover screws, if required, flange on enclosure sides is possible

WebCode **8146A**



R. STAHL Series 8146 terminal boxes, made of high-quality, glass fibre-reinforced polyester resin, are ideal for use in harsh operating conditions. With eight basic sizes in various heights, they are universally usable. If requested by the customer, they are equipped with series terminals up to 300 mm² and, as an option, a flange on several enclosure sides is possible.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table									
Product Description Rated operational voltage AC		Ex e terminal box 275 V							
Figure	Product Type	Terminal	Terminal rail	Earth rail	Max. number of 2.5 mm ² terminals	Max. no. of terminals 4 mm ²	Art. No.	PS	Weight kg
	8146/1S71	1 x Phoenix MBK 2-conductor, 2.5 mm ² , grey	15 x 301 mm (2x)	7 x 4 mm ² (1x)	-	98	136742	10	2.010
Product Description Rated operational voltage AC		Ex e terminal box 500 V							
Figure	Product Type	Terminal	Terminal rail	Earth rail	Max. number of 2.5 mm ² terminals	Max. no. of terminals 4 mm ²	Art. No.	PS	Weight kg
	8146/1051	1 x Phoenix MBK 2-conductor, 2.5 mm ² , grey	15 x 133 mm (2x)	7 x 4 mm ² (1x)	-	32	136692	10	1.070
	8146/1061	1 x Phoenix MBK 2-conductor, 2.5 mm ² , grey	15 x 189 mm (2x)	7 x 4 mm ² (1x)	-	54	136718	10	1.460
Product Description Rated operational voltage AC		Ex e terminal box 690 V							
Figure	Product Type	Terminal	Terminal rail	Earth rail	Max. number of 2.5 mm ² terminals	Max. no. of terminals 4 mm ²	Art. No.	PS	Weight kg
	8146/1S71	1 x Phoenix UT 2-conductor, 2.5 mm ² , grey	35 x 301 mm (1x)	7 x 4 mm ² (1x)	49	-	136738 ▲	10	2.010
		1 x Phoenix UT 2-conductor, 4 mm ² , grey	35 x 301 mm (1x)	7 x 4 mm ² (1x)	-	41	136740 ▲	10	2.000

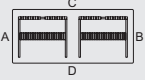
E3

Selection Table

Product Description Rated operational voltage AC		Ex e terminal box 690 V							
Figure	Product Type	Terminal	Terminal rail	Earth rail	Max. number of 2.5 mm ² terminals	Max. no. of terminals 4 mm ²	Art. No.	PS	Weight kg
	8146/1031	1 x Phoenix UT 2-conductor, 2.5 mm ² , grey 2 x Phoenix UT 2-conductor, 2.5 mm ² , green- yellow	35 x 90 mm (1x)	-	6	-	136603 ▲	10	0.640
	8146/1041	1 x Phoenix UT 2-conductor, 2.5 mm ² , grey 2 x Phoenix UT 2-conductor, 2.5 mm ² , green- yellow	35 x 133 mm (1x)	-	19	-	136665 ▲	10	0.730
		1 x Phoenix UT 2-conductor, 4 mm ² , grey 2 x Phoenix UT 2-conductor, 4 mm ² , green- yellow	35 x 133 mm (1x)	-	-	16	136667 ▲	10	1.000
	8146/1051	1 x Phoenix UT 2-conductor, 2.5 mm ² , grey	35 x 133 mm (1x)	7 x 4 mm ² (1x)	19	-	136688 ▲	10	1.060
		1 x Phoenix UT 2-conductor, 4 mm ² , grey	35 x 133 mm (1x)	7 x 4 mm ² (1x)	-	16	136690 ▲	10	1.000
	8146/1061	1 x Phoenix UT 2-conductor, 2.5 mm ² , grey	35 x 189 mm (1x)	7 x 4 mm ² (1x)	27	-	136714 ▲	10	1.400
		1 x Phoenix UT 2-conductor, 4 mm ² , grey	35 x 189 mm (1x)	7 x 4 mm ² (1x)	-	23	136716 ▲	10	1.350
	8146/1081	1 x Phoenix UT 2-conductor, 2.5 mm ² , grey	35 x 301 mm (1x)	18 x 4 mm ² (1x)	52	-	136800 ▲	10	3.400
	8146/1081	1 x Phoenix UT 2-conductor, 2.5 mm ² , grey	35 x 301 mm (2x)	18 x 4 mm ² (1x)	98	-	136804	10	3.810
	8146/1081	1 x Phoenix UT 2-conductor, 2.5 mm ² , grey	35 x 301 mm (3x)	18 x 4 mm ² (1x)	147	-	136808	10	4.200
	8146/1081	1 x Phoenix UT 2-conductor, 4 mm ² , grey	35 x 301 mm (1x)	18 x 4 mm ² (1x)	-	43	136802 ▲	10	3.370
	8146/1081	1 x Phoenix UT 2-conductor, 4 mm ² , grey	35 x 301 mm (2x)	18 x 4 mm ² (1x)	-	82	136806	10	3.800
	8146/1093	1 x Phoenix UT 2-conductor, 2.5 mm ² , grey	35 x 637 mm (1x)	18 x 4 mm ² (2x)	104	-	136898 ▲	10	7.100
	8146/1093	1 x Phoenix UT 2-conductor, 2.5 mm ² , grey	35 x 637 mm (2x)	18 x 4 mm ² (2x)	196	-	136900	10	7.300

E3

Selection Table

Product Description		Ex e terminal box 690 V							
Rated operational voltage AC									
Figure	Product Type	Terminal	Terminal rail	Earth rail	Max. number of 2.5 mm ² terminals	Max. no. of terminals 4 mm ²	Art. No.	PS	Weight kg
	8146/1093	1 x Phoenix UT 2-conductor, 4 mm ² , grey	35 x 637 mm (1x)	18 x 4 mm ² (2x)	-	86	136899	10	7.300

The enclosures are equipped with mounting rails, PE terminals and 1 terminal block of the specified type. 2 connections can be established for each terminal on the PE rail.

You can use the terminal box configurator to configure additional versions. See page 504 or go online and visit r-stahl.com/configurator

Technical Data

Explosion Protection	
Ambient temperature °C	-60 ... +40 °C
Gas explosion protection IECEx	Ex eb IIC T6 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex eb IIC T6 Gb
Gas explosion protection EAC	1 Ex e d ia mb IIC T6...T3 Gb X
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tb IIIC T80° ... T135°C DbX
Certificates	ATEX (PTB), Brazil (ULB), Canada / USA (UL), Canada (CSA), Canada (UL), China (NEPSI), EAC (LPE), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), USA (UL)
Ship approval	BVIS, RS
Electrical Data	
Rated operational voltage AC	690 V
Notes	Rated operational voltage max. 1100 V AC/DC (depending on terminal types and explosion-protected components used)
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	according to IEC/EN 60529
Enclosure material	Polyester resin, Glass fibre reinforced
Silicone-free	No
Components	
Notes	Please observe the information of the terminal manufacturer, e.g. the tightening torque
Max. number of mountable cable glands Series 8161 found on page 511	
Dimensional drawings found on page 512	

E3



- Wide range of Ex i terminal boxes in various sizes and materials, degree of protection IP66
- Customised equipping in accordance with customer specifications
- Enclosures with captive cover screws, if required, flange on enclosure sides is possible

WebCode **8146P**



R. STAHL Series 8146 terminal boxes, made of high-quality, glass fibre-reinforced polyester resin, are ideal for use in harsh operating conditions. With eight basic sizes in various heights, they are universally usable. If requested by the customer, they are equipped with series terminals up to 300 mm² and, as an option, a flange on several enclosure sides is possible.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E3

Selection Table									
Product Description		Ex i terminal box							
Figure	Product Type	Terminal	Terminal rail	PA rail	Max. number of 2.5 mm ² terminals	Max. no. of terminals 4 mm ²	Art. No.	PS	Weight kg
	8146/2S71	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 301 mm (1x)	7 x 4 mm ² (1x)	49	–	136739 ▲	10	2.010
		1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 301 mm (1x)	7 x 4 mm ² (1x)	–	41	136741 ▲	10	2.000
	8146/2041	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue 2 x Phoenix UT 2-conductor, 4 mm ² , grey	35 x 133 mm (1x)	–	19	–	136666 ▲	10	0.730
		1 x Phoenix UT 2-conductor, 4 mm ² , blue 2 x Phoenix UT 2-conductor, 4 mm ² , grey	35 x 133 mm (1x)	–	–	16	136668 ▲	10	0.700
	8146/2051	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 133 mm (1x)	7 x 4 mm ² (1x)	19	–	136689 ▲	10	1.000
		1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 133 mm (1x)	7 x 4 mm ² (1x)	–	16	136691 ▲	10	1.000
	8146/2061	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 189 mm (1x)	7 x 4 mm ² (1x)	27	–	136715 ▲	10	1.400
		1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 189 mm (1x)	7 x 4 mm ² (1x)	–	23	136717 ▲	10	1.350

Selection Table									
Product Description									
Ex i terminal box									
Figure	Product Type	Terminal	Terminal rail	PA rail	Max. number of 2.5 mm ² terminals	Max. no. of terminals 4 mm ²	Art. No.	PS	Weight kg
	8146/2081	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 301 mm (1x)	18 x 4 mm ² (1x)	52	-	136801 ▲	10	3.400
	8146/2081	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 301 mm (2x)	18 x 4 mm ² (1x)	98	-	136805	10	3.810
	8146/2081	1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 301 mm (1x)	18 x 4 mm ² (1x)	-	43	136803	10	3.370
	8146/2081	1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 301 mm (2x)	18 x 4 mm ² (1x)	-	82	136807	10	3.800
	8146/2093	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 637 mm (1x)	18 x 4 mm ² (2x)	104	-	136902	10	7.100
	8146/2093	1 x Phoenix UT 2-conductor, 2.5 mm ² , blue	35 x 637 mm (2x)	18 x 4 mm ² (2x)	196	-	136904	10	7.300
	8146/2093	1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 637 mm (1x)	18 x 4 mm ² (2x)	-	86	136903	10	7.300
	8146/2093	1 x Phoenix UT 2-conductor, 4 mm ² , blue	35 x 637 mm (2x)	18 x 4 mm ² (2x)	-	164	136905	10	7.500

The enclosures are equipped with mounting rails, PE terminals and 1 terminal block of the specified type. 2 connections can be established for each terminal on the PE rail.

You can use the terminal box configurator to configure additional versions. See page 504 or go online and visit r-stahl.com/configurator

Technical Data	
Explosion Protection	
Ambient temperature °C	-60 ... +75 °C
Gas explosion protection IECEx	Ex ia ib IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex ia ib IIC T6 Gb
Gas explosion protection EAC	1 Ex e d ia mb IIC T6...T3 Gb X
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tb IIIC T80° ... T135°C DbX
Certificates	ATEX (PTB), Brazil (ULB), China (NEPSI), EAC (LPE), IECEx (PTB), India (PESO), Taiwan (ITRI)
Ship approval	BVIS, RS
Electrical Data	
Rated operational voltage AC	60 V
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	according to IEC/EN 60529
Enclosure material	Polyester resin, Glass fibre reinforced
Silicone-free	No

E3

Technical Data

Components

Notes Please observe the information of the terminal manufacturer, e.g. the tightening torque












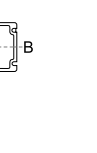

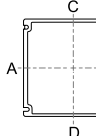
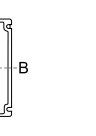
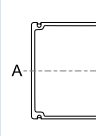
Max. number of mountable cable glands Series 8161 found on page 511

Dimensional drawings found on page 512

Maximum Number of Mountable Cable Glands Series 8161

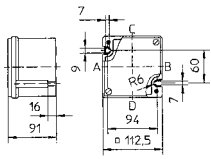
Attention:

The maximum number of cable glands which can be mounted in the enclosure walls depends on the position of the installed mounting rails and components.

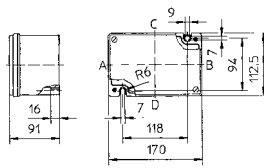
Cable gland	Enclosure size																							
	8146/.031				8146/.041				8146/.241/.242				8146/.051/.052				8146/.061/.062				8146/.071/.072			
																								
	without flange		with flange		without flange		with flange		without flange		with flange		without flange		with flange		without flange		with flange		without flange		with flange	
Size	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M16 x 1.5	3	4	5	7	5	10	-	7	6	8	-	7	8	10	7	7	8	18	7	14	8	18	7	14
M20 x 1.5	2	2	2	5	3	7	-	3	4	6	-	3	6	7	3	3	6	14	3	6	6	14	3	6
M25 x 1.5	1	2	2	3	2	6	-	3	3	4	-	3	4	5	3	3	4	9	3	6	4	9	3	6
M32 x 1.5	1	1	1	2	1	3	-	2	2	2	-	2	2	3	2	2	2	6	2	4	2	6	2	4
M40 x 1.5	-	1	1	1	1	2	-	2	1	2	-	2	2	2	2	2	2	4	2	4	2	4	2	4
M50 x 1.5	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	8146/.073/.075				8146/.S71				8146/.S73				8146/.081/.082											
																								
	without flange		with flange		without flange		with flange		without flange		with flange		without flange		with flange									
Size	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D								
M16 x 1.5	20	43	12	32	6	20	-	14	13	50	-	32	18	20	14	14								
M20 x 1.5	12	28	9	19	4	16	-	6	8	32	-	19	14	16	6	6								
M25 x 1.5	9	20	6	14	3	10	-	6	7	23	-	14	9	10	6	6								
M32 x 1.5	5	12	4	10	2	7	-	4	4	13	-	10	6	7	4	4								
M40 x 1.5	4	8	2	5	1	5	-	4	2	9	-	5	4	5	4	4								
M50 x 1.5	2	5	1	3	-	-	-	-	1	5	-	3	-	-	-	-								
M63 x 1.5	1	3	1	2	-	-	-	-	1	3	-	2	-	-	-	-								
	8146/.083/.085/.086				8146/.091/.092				8146/.093/.095															
																								
	without flange		with flange		without flange		with flange		without flange		with flange													
Size	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D												
M16 x 1.5	43	50	32	32	20	36	14	28	50	90	32	64												
M20 x 1.5	28	32	19	19	16	29	6	12	32	58	19	38												
M25 x 1.5	20	23	14	14	10	17	6	12	23	44	14	28												
M32 x 1.5	12	13	10	10	7	12	4	8	13	26	10	20												
M40 x 1.5	8	9	5	5	5	9	4	8	9	18	5	10												
M50 x 1.5	5	5	3	3	-	-	-	-	5	7	3	6												
M63 x 1.5	3	3	2	2	-	-	-	-	3	6	2	4												

E3

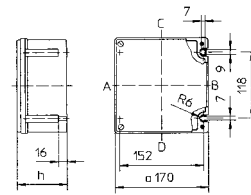
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



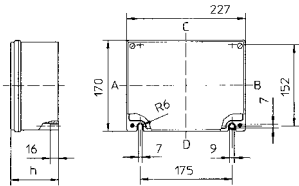
8146/.03.



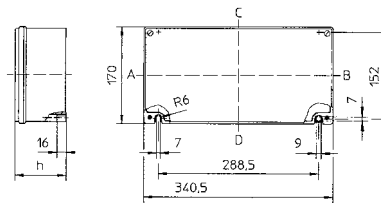
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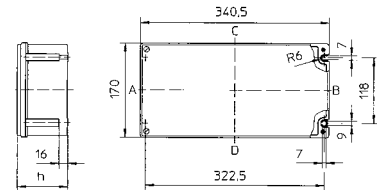
8146/.05.



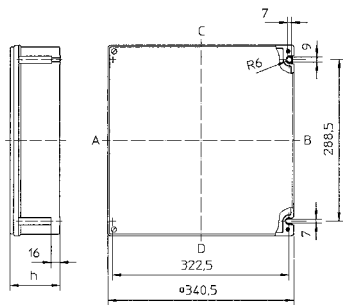
8146/.06.



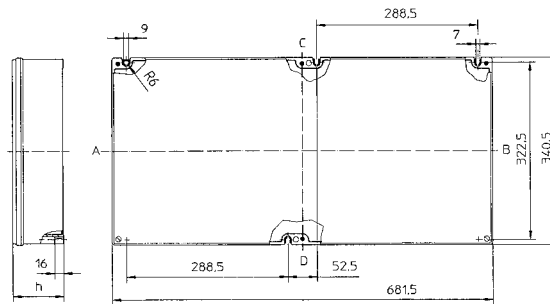
8146/.07.



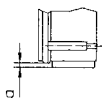
8146/.S7.



8146/.08.



8146/.09.



Additional dimension for flange mounting
 Flange thickness 2.8 mm: dimension a = 7 mm
 Flange thickness 5.8 mm: dimension a = 10 mm

Enclosure	Enclosure height h				
	8146/...1 91 mm	8146/...2 131 mm	8146/...3 150 mm	8146/...5 190 mm	8146/...6 230 mm
8146/.03.	X	-	-	-	-
8146/.04.	X	-	-	-	-
8146/.05.	X	X	-	-	-
8146/.06.	X	X	-	-	-
8146/.07.	X	X	X	X	-
8146/.S7.	X	-	X	-	-
8146/.08.	X	X	X	X	X
8146/.09.	X	X	X	X	-

X ... can be supplied



- Resistant Ex e terminal boxes made from stainless steel, degree of protection IP66, external earth connection M8
- Version as screw-on cover or hinge cover with sash locks
- Equipped as required

WebCode **8150A**



R. STAHL Series 8150 Ex e terminal boxes are made of brushed stainless steel (1.4301, AISI 304 or 1.4404, AISI 316L) and are particularly resistant. The optimised design and the circumferential protection channel on the cover opening and the silicone seal suitable for the most extreme temperature ranges make the enclosure usable worldwide. Various optional accessories are available.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table								
Product Description	Ex e terminal box							
Enclosure material	1.4301 stainless steel, (AISI 304), brush finished							
Figure	Product Type	Terminal	Terminal rail	Max. number of 2.5 mm ² terminals	Max. no. of terminals 4 mm ²	Art. No.	PS	Weight kg
	8150/1-0400-0300-150-2311	1 x WAGO 2002 2-conductor, 2.5 mm ² , grey	35 x 358 mm (1x)	63	-	212793	10	7.235
	8150/1-0360-0360-091-2311	1 x WAGO 2002 2-conductor, 2.5 mm ² , grey	35 x 301 mm (1x)	52	-	212789	10	4.266
	8150/1-0360-0176-091-2311	1 x WAGO 2002 2-conductor, 2.5 mm ² , grey	35 x 301 mm (1x)	52	-	212785	10	3.748
	8150/1-0300-0200-150-2311	1 x WAGO 2002 2-conductor, 2.5 mm ² , grey	35 x 258 mm (1x)	43	-	212781	10	4.282
	8150/1-0236-0176-091-2311	1 x WAGO 2002 2-conductor, 2.5 mm ² , grey	35 x 189 mm (1x)	27	-	212777	10	3.087
	8150/1-0176-0176-091-2311	1 x WAGO 2002 2-conductor, 2.5 mm ² , grey	35 x 133 mm (1x)	19	-	212773	10	2.540
	8150/1-0176-0116-091-2311	1 x WAGO 2002 2-conductor, 2.5 mm ² , grey	35 x 133 mm (1x)	19	-	212679▲	10	2.250

E3

Selection Table

Product Description		Ex e terminal box 1.4404 stainless steel, (AISI 316L), brush finished						
Enclosure material								
Figure	Product Type	Terminal	Terminal rail	Max. number of 2.5 mm ² terminals	Max. no. of terminals 4 mm ²	Art. No.	PS	Weight kg
	8150/1-0727-0360-150-3311	1 x WAGO 2004 2-conductor, 4 mm ² , grey	35 x 672 mm (1x)	-	96	212806	10	2.877
	8150/1-0400-0400-150-3311	1 x WAGO 2004 2-conductor, 4 mm ² , grey	35 x 358 mm (1x)	-	52	212798	10	-
	8150/1-0360-0360-091-3311	1 x WAGO 2004 2-conductor, 4 mm ² , grey	35 x 301 mm (1x)	-	43	212790	10	4.266
	8150/1-0360-0176-091-3311	1 x WAGO 2004 2-conductor, 4 mm ² , grey	35 x 301 mm (1x)	-	43	212786	10	3.748
	8150/1-0300-0200-150-3311	1 x WAGO 2004 2-conductor, 4 mm ² , grey	35 x 258 mm (1x)	-	36	212782	10	4.282
	8150/1-0236-0176-091-3311	1 x WAGO 2004 2-conductor, 4 mm ² , grey	35 x 189 mm (1x)	-	23	212778	10	3.091
	8150/1-0176-0176-091-3311	1 x WAGO 2004 2-conductor, 4 mm ² , grey	35 x 133 mm (1x)	-	16	212774	10	2.540
	8150/1-0176-0116-091-3311	1 x WAGO 2004 2-conductor, 4 mm ² , grey	35 x 133 mm (1x)	-	16	212680	10	2.250

The enclosures are equipped with mounting rails and 1 terminal block of the specified type.
Hinges on request.

Possible number of connections per terminal:

Terminal type	Connections
2002-1201	2 wires 1.5 (2.5) mm ²
2004-1201	2 wires 4 (6) mm ²
2002-1204	2 wires 1.5 (2.5) mm ²
2004-1204	2 wires 4 (6) mm ²

You can use the terminal box configurator to configure additional versions.
See page 504 or go online and visit r-stahl.com/configurator

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex eb IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex eb IIC T6 Gb
Gas explosion protection EAC	1 Ex e d ia mb IIC T6...T3 Gb X
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tb IIIC T80° ... T135°C DbX
Certificates	ATEX (PTB), Brazil (ULB), Canada / USA (UL), Canada (UL), China (COST), EAC (LPE), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), USA (UL)
Ship approval	GL, RS

Mechanical Data

Degree of protection (IP)	IP66
Silicone-free	No

Technical Data	
Mechanical Data	
Cover	Screw-on cover
Material note	special version on request
Components	
Notes	Please refer to the manufacturer's terminal data, e. g. the tightening torque
Max. number of mountable cable glands, Series 8161 found on page 518	
Dimensional drawings found on page 519	



- Resistant Ex i terminal boxes made from stainless steel, degree of protection IP66, external earth connection M8
- Version as screw-on cover or hinge cover with sash locks
- Equipped as required

WebCode **8150H**



R. STAHL Series 8150 Ex i terminal boxes are made of brushed stainless steel (1.4301, AISI 304 or 1.4404, AISI 316L) and are particularly resistant. The optimised design and the circumferential protection channel on the cover opening and the silicone seal suitable for the most extreme temperature ranges make the enclosure usable worldwide. Various optional accessories are available.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E3

Selection Table								
Product Description		Ex i terminal box						
Enclosure material		1.4301 stainless steel, (AISI 304), brush finished						
Figure	Product Type	Terminal	Terminal rail	Max. number of 2.5 mm ² terminals	Max. no. of terminals 4 mm ²	Art. No.	PS	Weight kg
	8150/2-0400-0300-150-2311	1 x WAGO 2002 2-conductor, 2.5 mm ² , blue	35 x 358 mm (1x)	63	-	212795	10	7.235
	8150/2-0300-0200-150-2311	1 x WAGO 2002 2-conductor, 2.5 mm ² , blue	35 x 258 mm (1x)	43	-	212783	10	4.282
	8150/2-0236-0176-091-2311	1 x WAGO 2002 2-conductor, 2.5 mm ² , blue	35 x 189 mm (1x)	27	-	212779	10	3.091
	8150/2-0176-0176-091-2311	1 x WAGO 2002 2-conductor, 2.5 mm ² , blue	35 x 133 mm (1x)	19	-	212775	10	2.540
	8150/2-0176-0116-091-2311	1 x WAGO 2002 2-conductor, 2.5 mm ² , blue	35 x 133 mm (1x)	19	-	212771	10	2.250
Product Description		Ex i terminal box						
Enclosure material		1.4404 stainless steel, (AISI 316L), brush finished						
Figure	Product Type	Terminal	Terminal rail	Max. number of 2.5 mm ² terminals	Max. no. of terminals 4 mm ²	Art. No.	PS	Weight kg
	8150/2-0236-0176-091-3311	1 x WAGO 2004 2-conductor, 4 mm ² , blue	35 x 189 mm (1x)	-	23	212780	10	3.091
	8150/2-0176-0116-091-3311	1 x WAGO 2002 2-conductor, 2.5 mm ² , blue	35 x 133 mm (1x)	19	-	212772	10	2.250

The enclosures are equipped with mounting rails and 1 terminal block of the specified type.
Hinges on request.

Possible number of connections per terminal:

Terminal type	Connections
2002-1201	2 wires 1.5 (2.5) mm ²
2004-1201	2 wires 4 (6) mm ²
2002-1204	2 wires 1.5 (2.5) mm ²
2004-1204	2 wires 4 (6) mm ²

You can use the terminal box configurator to configure additional versions.
See page 504 or go online and visit r-stahl.com/configurator

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex ia ib IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex ia ib IIC T6 Gb
Gas explosion protection EAC	1 Ex e d ia mb IIC T6...T3 Gb X
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tb IIIC T80° ... T135°C DbX
Certificates	ATEX (PTB), Brazil (ULB), China (COST), EAC (LPE), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)
Ship approval	GL, RS

Mechanical Data

Degree of protection (IP)	IP66
Silicone-free	No
Cover	Screw-on cover
Material note	special version on request

Components

Notes	Please refer to the manufacturer's terminal data, e. g. the tightening torque
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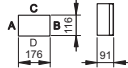
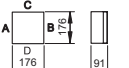
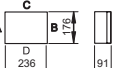
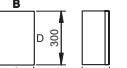

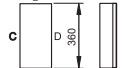
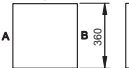
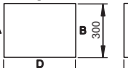


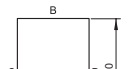
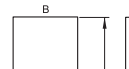
Max. number of mountable cable glands, Series 8161 found on page 518

Dimensional drawings found on page 519

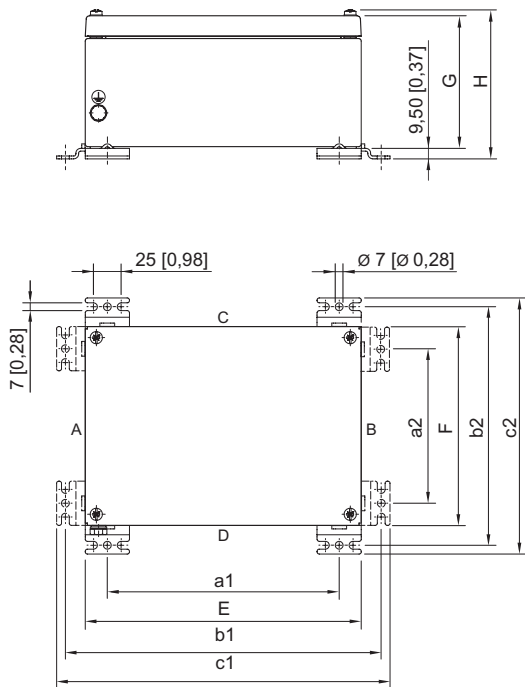
Maximum Number of Mountable Cable Glands Series 8161

Attention:

The maximum number of cable glands which can be mounted in the enclosure walls depends on the position of the installed mounting rails and components.

Cable gland	Enclosure size																							
	8150/-0176-116-091-3.1						8150/-0236-0176-091-3.1						8150/.0300-0200-150-3.1						8150/.0300-0200-150-3.1					
																								
	without flange			with flange			without flange			with flange			without flange			with flange			without flange			with flange		
Size	A	B	C	D	A/B	C/D	A	B	C	D	A/B	C/D	A	B	C	D	A/B	C/D	A	B	C	D	A/B	C/D
M16 x 1.5	6	6	12	12	-	-	11	11	12	12	-	-	11	11	14	14	-	7	33	33	54	54	-	-
M20 x 1.5	4	4	8	8	-	-	8	8	8	8	-	-	8	8	11	11	-	3	20	20	34	34	-	-
M25 x 1.5	2	2	4	4	-	-	4	4	4	4	-	-	4	4	5	5	-	3	12	12	21	21	-	-
M32 x 1.5	1	1	3	3	-	-	3	3	3	3	-	-	3	3	4	4	-	2	7	7	16	16	-	-
M40 x 1.5	1	1	2	2	-	-	2	2	2	2	-	-	2	2	3	3	-	2	5	5	8	8	-	-
M50 x 1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	5	5	-	-
M63 x 1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3	3	-	-
	8150/-0360-0176-091-3.1						8150/-0360-0360-091-3.1						8150/-0400-0300-150-3.1						8150/-0400-0400-150-3.1					
																								
	without flange			with flange			without flange			with flange			without flange			with flange			without flange			with flange		
Size	A	B	C	D	A/B	C/D	A	B	C	D	A/B	C/D	A	B	C	D	A/B	C/D	A	B	C	D	A/B	C/D
M16 x 1.5	11	11	27	27	-	9	27	27	27	27	-	9	54	54	74	74	-	28	74	74	74	74	28	28
M20 x 1.5	8	8	20	20	-	6	20	20	20	20	-	6	34	34	48	48	-	18	48	48	48	48	18	18
M25 x 1.5	4	4	10	10	-	6	10	10	10	10	-	6	21	21	30	30	-	13	29	29	30	30	13	13
M32 x 1.5	3	3	7	7	-	-	7	7	7	7	-	-	15	15	22	22	-	9	21	21	22	22	9	9
M40 x 1.5	2	2	5	5	-	-	5	5	5	5	-	-	8	8	11	11	-	5	11	11	11	11	5	5
M50 x 1.5	-	-	-	-	-	-	-	-	-	-	-	-	5	5	7	7	-	3	7	7	7	7	3	3
M63 x 1.5	-	-	-	-	-	-	-	-	-	-	-	-	3	3	5	5	-	3	5	5	5	5	3	3
	8150/-0600-0400-150-3.1						8150/-0727-0360-150-3.1																	
																								
	without flange			with flange			without flange			with flange														
Size	A	B	C	D	A/B	C/D	A	B	C	D	A/B	C/D												
M16 x 1.5	74	74	117	117	28	47	65	65	117	117														
M20 x 1.5	48	48	74	74	18	31	42	42	74	74														
M25 x 1.5	29	29	46	46	13	21	26	26	46	46														
M32 x 1.5	21	21	33	33	9	15	18	18	33	33	on request	on request												
M40 x 1.5	11	11	18	18	5	8	10	10	18	18														
M50 x 1.5	7	7	11	11	3	5	6	6	11	11														
M63 x 1.5	5	5	7	7	3	5	4	4	7	7														

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Type	Width	Height	Depth	Total depth	Fixing dimensions					
	E	F	G	H	a1	a2	b1	b2	c1	c2
8150/-0176-0116-091-...1.	176.5 [6.95]	116.5 [4.59]	91 [3.58]	106 [4.17]	136 [5.35]	76 [2.99]	212 [8.35]	152 [5.98]	228 [8.98]	168 [6.61]
8150/-0176-0176-091-...1.	176.5 [6.95]	176.5 [6.95]	91 [3.58]	106 [4.17]	136 [5.35]	136 [5.35]	212 [8.35]	212 [8.35]	228 [8.98]	228 [8.98]
8150/-0236-0176-091-...1.	236.5 [9.31]	176.5 [6.95]	91 [3.58]	106 [4.17]	196 [7.72]	136 [5.35]	272 [10.71]	212 [8.35]	288 [11.34]	228 [8.98]
8150/-0300-0200-150-...1.	300 [11.81]	200 [7.87]	150 [5.91]	165 [6.50]	260 [10.24]	160 [6.30]	336 [13.23]	236 [9.29]	352 [13.86]	252 [9.92]
8150/-0360-0176-091-...1.	360 [14.17]	176.5 [6.95]	91 [3.58]	106 [4.17]	320 [12.60]	136 [5.35]	396 [15.59]	212 [8.35]	412 [16.22]	228 [8.98]
8150/-0360-0360-091-...1.	360 [14.17]	360 [14.17]	91 [3.58]	106 [4.17]	320 [12.60]	320 [12.60]	396 [15.59]	396 [15.59]	412 [16.22]	412 [16.22]
8150/-0400-0300-150-...1.	400 [15.75]	300 [11.81]	150 [5.91]	165 [6.50]	360 [14.17]	260 [10.24]	436 [17.17]	336 [13.23]	452 [17.80]	352 [13.86]
8150/-0400-0400-150-...1.	400 [15.75]	400 [15.75]	150 [5.91]	165 [6.50]	360 [14.17]	360 [14.17]	436 [17.17]	436 [17.17]	452 [17.80]	452 [17.80]
8150/-0600-0400-150-...1.	600 [23.62]	400 [15.75]	150 [5.91]	165 [6.50]	560 [22.05]	360 [14.17]	636 [25.04]	436 [17.17]	652 [25.67]	452 [17.80]
8150/-0727-0360-150-...1.	727 [28.62]	360 [14.17]	150 [5.91]	165 [6.50]	687 [27.05]	320 [12.60]	763 [30.04]	398 [15.67]	779 [30.67]	412 [16.22]

Note: The attachment brackets (2 pieces) are included in an unmounted state. Additional enclosures are available on request.

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- Ex d enclosure in 3 sizes, pre-mounted with threads and DIN rails for standard terminals
- Enclosure holes for quick and easy mounting
- Also suitable for versions with electronic components and relays

WebCode **8252A**



The new R. STAHL Series 8252/1 Ex d terminal boxes are made of seawater-resistant, copper-free aluminium casting alloy. The DIN rail is pre-mounted; in addition, the enclosures can be configured flexibly: Three sizes, 3, 4 or 5 hubs, metric or NPT thread – and always individually equipped, also with electronic components and relays.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E3

Selection Table									
Enclosure size		2							
Dimensions (WxHxD)		106 x 106 x 76 mm							
Figure	Floor openings (BASE)	Right openings (0°)	Top openings (90°)	Left openings (180°)	Bottom openings (270°)	Product Type	Art. No.	PS	Weight kg
	Without entry & without adaptor	M20	M20	M20	Without entry & without adaptor	8252/12-0BBBB-111	215181 ▲	13	0.590
	Without entry & without adaptor	M20	M20	M20	M20	8252/12-0BBBB-111	215186 ▲	13	0.640
	Without entry & without adaptor	M25	M25	M25	Without entry & without adaptor	8252/12-0CCCC-111	215182 ▲	13	0.570
	Without entry & without adaptor	M25	M25	M25	M25	8252/12-0CCCC-111	215187 ▲	13	0.610
	Without entry & without adaptor	NPT1	NPT1	NPT1	Without entry & without adaptor	8252/12-0JJJ0-111	215145 ▲	13	0.530

Selection Table									
Enclosure size		2							
Dimensions (WxHxD)		106 x 106 x 76 mm							
Figure	Floor openings (BASE)	Right openings (0°)	Top openings (90°)	Left openings (180°)	Bottom openings (270°)	Product Type	Art. No.	PS	Weight kg
	Without entry & without adaptor	NPT1	NPT1	NPT1	NPT1	8252/12-0JJJJ-111	215150 ▲	13	0.550
	Without entry & without adaptor	NPT1/2	NPT1/2	NPT1/2	Without entry & without adaptor	8252/12-0HHH0-111	215143 ▲	13	0.590
		NPT3/4	NPT3/4	NPT3/4	Without entry & without adaptor	8252/12-0IIII-111	215144 ▲	13	0.550
	Without entry & without adaptor	NPT3/4	NPT3/4	NPT3/4	NPT3/4	8252/12-0IIII-111	215149 ▲	13	0.590
Enclosure size		2							
Dimensions (WxHxD)		106 x 106 x 88 mm							
Figure	Floor openings (BASE)	Right openings (0°)	Top openings (90°)	Left openings (180°)	Bottom openings (270°)	Product Type	Art. No.	PS	Weight kg
	M20	M20	M20	M20	Without entry & without adaptor	8252/12-BBBB0-111	215195 ▲	13	0.650
		NPT1/2	NPT1/2	NPT1/2	Without entry & without adaptor	8252/12-HHHH0-111	215157 ▲	13	0.650
Enclosure size		3							
Dimensions (WxHxD)		120 x 120 x 99 mm							
Figure	Floor openings (BASE)	Right openings (0°)	Top openings (90°)	Left openings (180°)	Bottom openings (270°)	Product Type	Art. No.	PS	Weight kg
	Without entry & without adaptor	M32	M32	M32	Without entry & without adaptor	8252/13-0DDDD-111	216439 ▲	13	1.020
	Without entry & without adaptor	M32	M32	M32	M32	8252/13-0DDDD-111	216441 ▲	13	0.990
	Without entry & without adaptor	NPT1-1/4	NPT1-1/4	NPT1-1/4	Without entry & without adaptor	8252/13-0KKK0-111	216438 ▲	13	0.950
	Without entry & without adaptor	NPT1-1/4	NPT1-1/4	NPT1-1/4	NPT1-1/4	8252/13-0KKK0-111	216440 ▲	13	0.900
Enclosure size		4							
Dimensions (WxHxD)		156 x 156 x 115 mm							
Figure	Floor openings (BASE)	Right openings (0°)	Top openings (90°)	Left openings (180°)	Bottom openings (270°)	Product Type	Art. No.	PS	Weight kg
	Without entry & without adaptor	NPT1-1/2	NPT1-1/2	NPT1-1/2	Without entry & without adaptor	8252/14-0LLL0-111	215146 ▲	13	1.690
		NPT2	NPT2	NPT2	Without entry & without adaptor	8252/14-0MMM0-111	215147 ▲	13	1.540
Cable glands must be ordered separately.									

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Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex d IIC T5-T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex d IIC T5-T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T80°C-95°C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T80°C-95°C Db

Certificates ATEX (BVS), China (CQST), EAC (LPE), IECEx (BVS), India (PESO)

Electrical Data

Rated operational voltage AC	690 V
Rated operational current	175 A
Notes	Rated operational voltage AC and Rated operational current depending on explosion-protected built-in components used

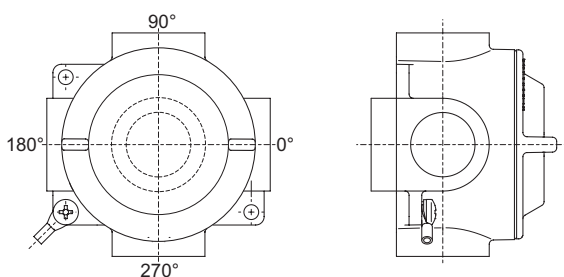
Ambient Conditions

Ambient temperature	-60 °C ... +70 °C
Notes	Ambient temperature depending on explosion-protected built-in components used

Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	according to IEC/EN 60529
Enclosure material	Cast aluminium alloy, Copper-free, powder-coated
Notes	Protective conductor connection: M6 earth bolt, inside/outside on the enclosure, tightening torque: 2.8 Nm

Position of Hubs



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Maximum Number of Terminal Blocks which can be fitted

	MBK 2.5E	MBK 3/E-Z	MBK 5/E-Z	UT 2.5	UT 4	UT 6	UT 10	UT 16	ST 2.5	ST 4	ST 6	STTB 2.5	STTB 4
Enclosure size 2 8252/12	8	8	8	-	-	-	-	-	-	-	-	-	-
Enclosure size 3 8252/13	10	10	8	6	5	4	-	-	6	4	-	-	-
Enclosure size 4 8252/14	17	17	14	11	11	10	6	5	11	10	4	5	3

Selection Guide for Cable Glands

Selection guide: cable glands Ex d versions

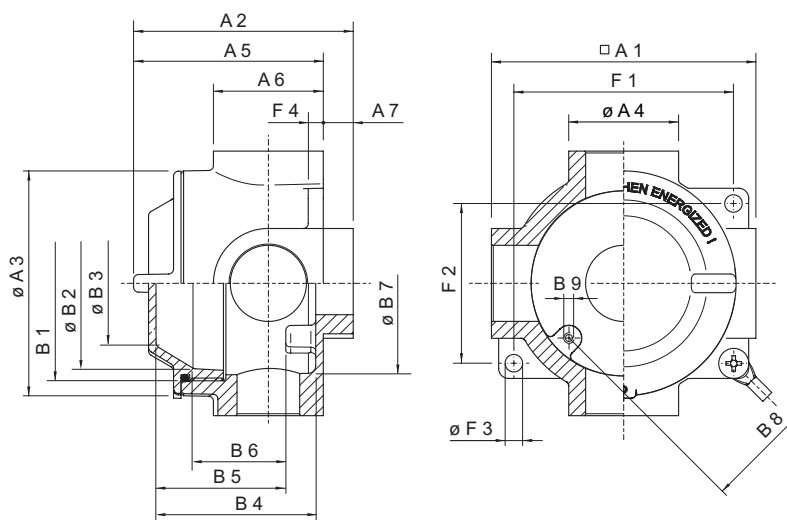
Type of protection	Armouring	Material	Compound	Type
Ex d	unarmoured	Nickel - plated brass	Compound	PXSS2K
	all armouring without lead sheath		RapidEx	PXSS2K Rex
			Compound	PXS2K
	unarmoured		RapidEx	PXS2K Rex
		unarmoured / rigid Conduit connection	no	TC
	Nickel - plated brass / stainless steel			A2F
	unarmoured / flexible Conduit connection	A2FRC		
	all armouring without lead sheath	Nickel - plated brass with double seal		A2FFC
				wire braid / steel tape armoured
	single wire / steel wire armoured (SWA)			E1FU
all armouring without lead sheath	Stainless steel with double seal			E1FW
		E1FX		
			TE1FU	

Cable glands see Chapter E10, page 808

Note: Cable glands or stopping plugs must be ordered separately.

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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



	Size 2 8252/12	Size 3 8252/13	Size 4 8252/14
□A1	106	120	156
A2	88	110	126
ØA3	90	110	145
ØA4	44	54	75
A5	76	99	115
A6	44	54	75
A7	12	12	12
B1	M80	M95	M130
ØB2	72	85	123
ØB3	52	67	99
B4	64	83	98
B5	52	71	86
B6	36	57	66
ØB7	73	87	123
B8	61	77	111
B9	M4	M4	M4
F1	88	102	136
F2	64	78	96
ØF3	7	7	7
F4	6	6	3

Max. thread size

Metric	M32	M40	M63
NPT	1"	1-1/4"	2"



- Cost savings thanks to low weight and small installation area
- Easily adapted should there be any changes to an order
- More installation space thanks to a large installation volume
- Compact and flexible machinery and system design
- More control functions available
- Shorter planning and project turnaround times
- Low operating and maintenance costs
- Higher system availability and increased productivity

WebCode **8280A**



The new EXpressure technology safely dissipates explosion pressure in cabinets, control boxes and other enclosures via flow channels. As a result, the lightweight and compact EXpressure enclosure, manufactured in accordance with industrial cabinet dimensions with a control panel made from industrial components, can be positioned as close as possible to the process for zones 1 and 2.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table						
Enclosure material	Stainless steel screws					
Cover attachment						
Dimensions (WxHxD)	Hinge	Volume	Product Type empty enclosure	Art. No.	PS	Weight kg
300 x 400 x 200	without	24 cm ³	8280/0-20-2.11-1	264241	99	37.000
400 x 600 x 300	with	72 cm ³	8280/0-31-2.11-1	263860	99	79.000
600 x 800 x 400	with	192 cm ³	8280/0-41-2.11-1	263859	99	153.000
1000 x 1400 x 700	with	980 cm ³	8280/0-62-2.11-2	264577	99	551.000
1000 x 1400 x 700	with	980 cm ³	8280/0-62-2.21-2	267378	99	590.000

Ex d cabinet with base plate, without built-in components

For accessories and spare parts, see page 527

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	8280/0: Ex db sb IIB Gb 8280/5: Ex db eb ia [ia Ga] ib [ib Gb] mb op pr [op is] sb IIB T3...T5 Gb
Gas explosion protection ATEX	8280/0: Ⓔ II 2 G Ex db sb IIB Gb 8280/5: Ⓔ II 2 G Ex db eb ia [ia Ga] ib [ib Gb] mb op pr [op is] sb IIB T5...T3 Gb
Certificates	ATEX (BVS), ATEX (PTB), IECEx (BVS), IECEx (PTB)
Electrical Data	
Rated operational voltage AC	11 – 11 kV
Ambient Conditions	
Ambient temperature T _a	-40 °C ≤ T _a ≤ +60 °C

Technical Data

Mechanical Data

Degree of protection (IP)	IP66
Material cover seal	silicone
Connection cross section max.	300 mm ²
Protective conductor connection size	M6
Protective conductor connection description	In-/outside of the enclosure

Wall mounting:	only using mounting brackets
Stand variant:	only for SZ 62 enclosures (only possible without connection chamber)

Power Dissipation and Temperature Class




Enclosure type	Dimensions (WxHxD)	Power dissipation T _a 40 °C	Power dissipation T _a 50 °C	Power dissipation T _a 60 °C
8280/..20-2*	300 x 400 x 200	T3 = 340 W T4 = 140 W T5 = 40 W	T3 = 310 W T4 = 110 W T5 = 10 W	T3 = 280 W T4 = 100 W T5 = n/a
8280/..31-2*	400 x 600 x 300	T3 = 620 W T4 = 200 W T5 = 20 W	T3 = 550 W T4 = 150 W T5 = n/a	T3 = 480 W T4 = 100 W T5 = n/a
8280/..41-2*	600 x 800 x 400	T3 = 1150 W T4 = 350 W T5 = 60 W	T3 = 1030 W T4 = 250 W T5 = n/a	T3 = 850 W T4 = 160 W T5 = n/a
8280/..62-2*	1000 x 1400 x 700	T3 = 3200 W T4 = 800 W T5 = n/a	T3 = 2800 W T4 = 500 W T5 = n/a	T3 = 2500 W T4 = 200 W T5 = n/a

n/a: not applicable

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Inspection window			
	visible area 150 x 63 mm	267306	1.030
	visible area 150 x 104 mm	267307	1.360
	visible area 245 x 149 mm	267308	3.040
	visible area 310 x 210 mm	267309	5.080
	visible area 328 x 244 mm	267310	5.680
	visible area 540 x 230 mm	267381	11.180
Base plate			
	for enclosure size 20	263418	3.000
	for enclosure size 31	262622	6.200
	for enclosure size 41	262539	12.870
	for enclosure size 62	262662	37.390
Rupture disk			
	Enclosure size 20: size 134x344 mm	268229	1.100
	Enclosure size 31: size 200x460 mm	268227	2.300
	Enclosure size 41: size 324x700 mm	268230	4.560
	Enclosure size 62: size 600x1290 mm	268228	14.260
Rupture disk with signal contact			
	Enclosure size 20: size 134x344 mm	268407	1.100
	Enclosure size 31: size 200x460 mm	268408	2.300
	Enclosure size 41: size 324x700 mm	268409	4.560
	Enclosure size 62: size 600x1290 mm	268410	14.260
Stand feet			
	for size 62 enclosure caution: Mounting is only possible without connection chamber	269887	100.500
Connection chamber			
	Ex e connection chamber available on request	-	-
Tubular Light Fitting with LED - Standard You can find other variants online at r-stahl.com WebCode 6036A			
	Size 1 (Length = 444 mm), 16 W 110 – 240 V AC/DC Single-row LED Cable length 2.5 m Without diffuser	257065	0.960
	Size 2 (Length = 762 mm), 28 W 220 – 240 V AC 209 – 240 V DC Single-row LED Cable length 2.5 m Without diffuser	251414	1.350
Ex d actuator			
	Series 8605 Ex d actuator available on request	-	-

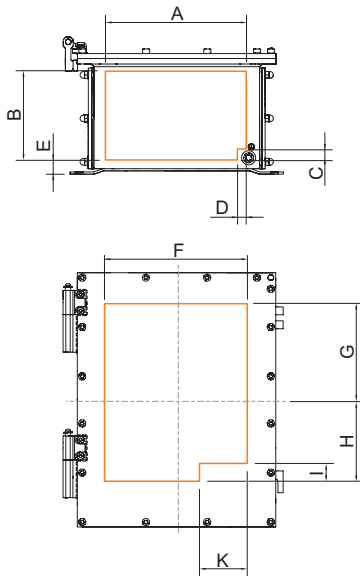
E3

Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Metal cable gland You can find other variants online at r-stahl.com WebCode A2FA, PX2KA or PXSS2KA			
	Ex d & Ex e cable glands for all types of unarmoured cables with wire-braid armouring (stainless steel) Series A2F, M25 x 1,5	243468	0.123
	Ex d & Ex e compound cable entry for all types of armoured cables (SWA, wire-braid, tape) (nickel-plated brass) Series PX2K, M25 x 1,5	243533	0.370
	Ex d & Ex e compound cable entry for all types of unarmoured cables and cables with wire-braid armouring (nickel-plated brass) Series PXSS2K, M25 x 1,5	109442	0.330
Retaining / transport lugs			
	M10, stainless steel, thread length = 8 mm, for cover size 20, 31, 41 Packaging unit: 2 pieces	268425	0.180
	M14, stainless steel, thread length = 10 mm, for cover size 62 Packaging unit: 2 pieces	268427	0.480
	M12, stainless steel, thread length = 20.5 mm, for enclosure size 20, 31, 41 Packaging unit: 2 pieces	268670	0.320
	M20, stainless steel, thread length = 30 mm, for enclosure size 62 Packaging unit: 2 pieces	268669	0.840

Use only original accessories and spare parts from R. STAHL Schaltgeräte GmbH.

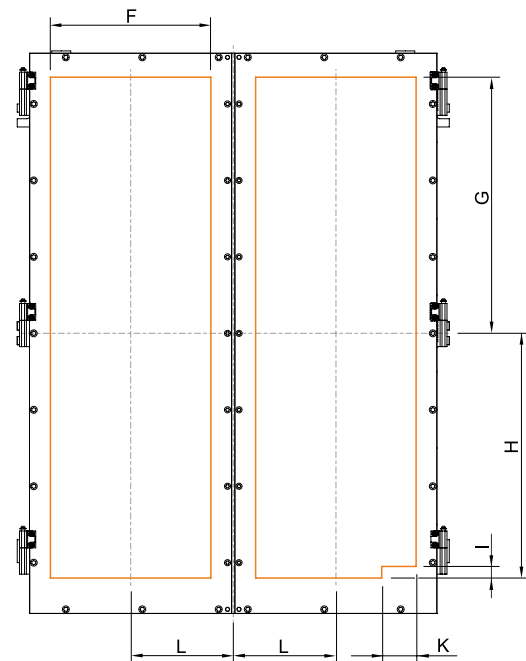
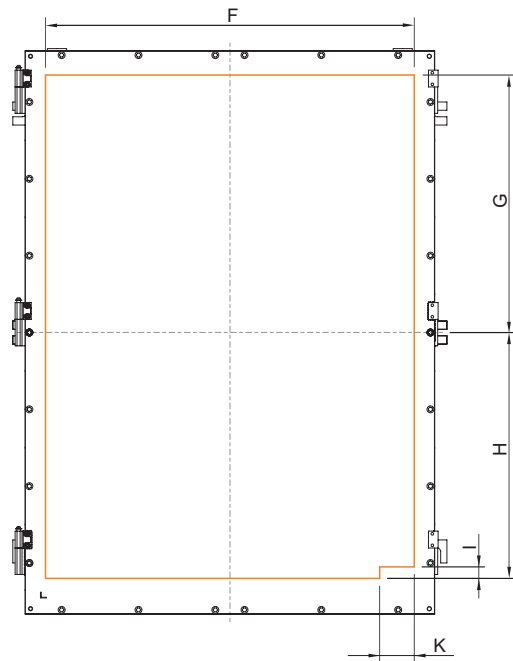
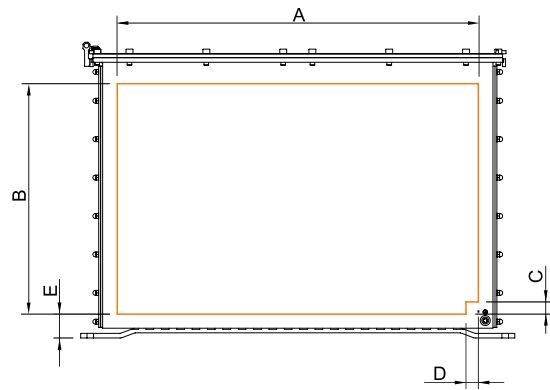
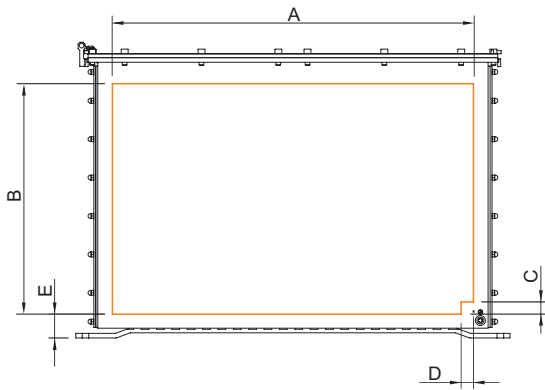
Collision Frame / Mountable Surface (All Dimensions in mm [inches]) - Subject to Alterations



Size 20, 31, 41

Enclosure type	8280/-20-2.	8280/-31-2.	8280/-41-2.
Dimension A	260 [10.2]	340 [13.4]	540 [21.3]
Dimension B	160 [6.3]	240 [9.5]	340 [13.4]
Dimension C	16 [0.6]	-	-
Dimension D	16 [0.6]	-	-
Dimension E	30 [1.2]	50 [1.9]	50 [1.9]
Dimension F	256 [10.1]	360 [14.2]	562 [22.1]
Dimension G	179 [7.1]	280 [11.0]	382 [15.0]
Dimension H	149 [5.9]	250 [9.8]	352 [13.9]
Dimension I	30 [1.2]	30 [1.2]	30 [1.2]
Dimension K	90 [3.5]	90 [3.5]	90 [3.5]

E3



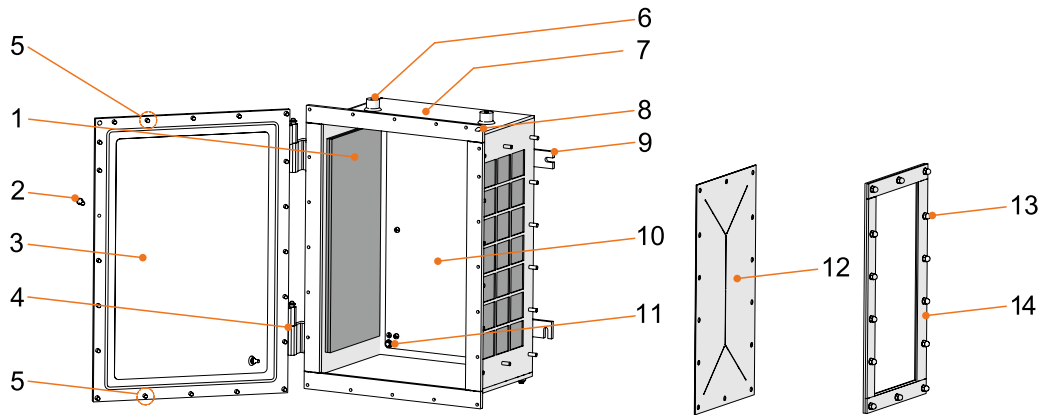
E3

Size 62 with 1 cover

Size 62 with 2 covers

Enclosure type	8280/-62-2.1.	8280/-62-2.2.
Dimension A	810 [31.9]	810 [31.9]
Dimension B	600 [23.6]	600 [23.6]
Dimension C	-	-
Dimension D	-	-
Dimension E	62 [2.4]	62 [2.4]
Dimension F	960 [37.8]	420 [16.5]
Dimension G	670 [26.4]	670 [26.4]
Dimension H	640 [25.2]	640 [25.2]
Dimension I	30 [1.2]	30 [1.2]
Dimension K	90 [3.5]	90 [3.5]

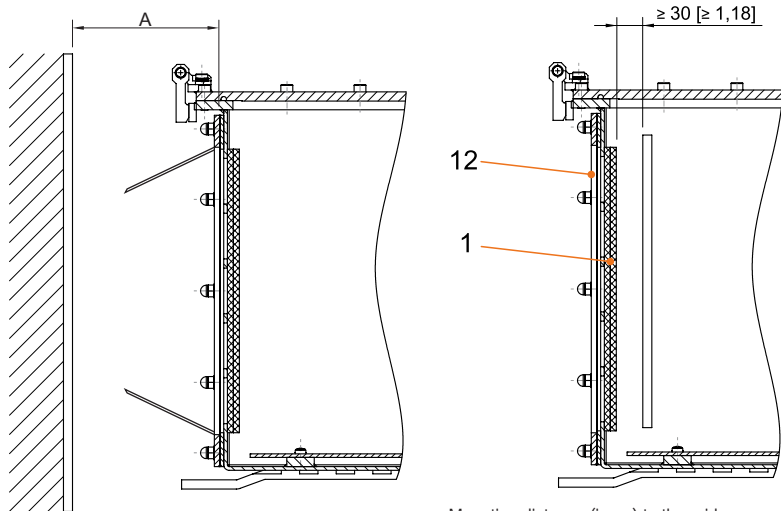
Device Design



- 1 = Grid
- 2 = Cover screw
- 3 = Enclosure cover
- 4 = Hinge
- 5 = Mounting point for retaining lug
- 6 = Mounting point for transport lug
- 7 = Enclosure
- 8 = Positioning pin
- 9 = Fastening clip
- 10 = Base plate
- 11 = Inner earth connection for base plate
- 12 = Rupture disk
- 13 = Cap nut
- 14 = Frame

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

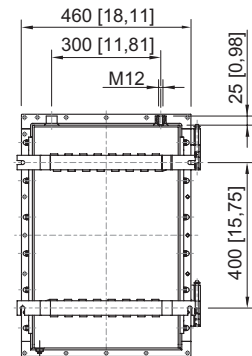
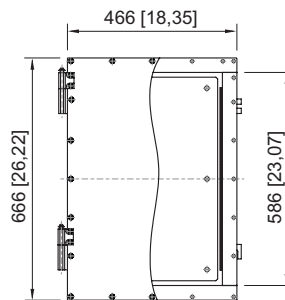
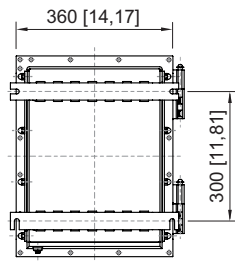
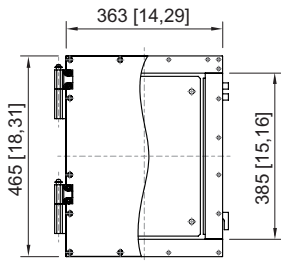
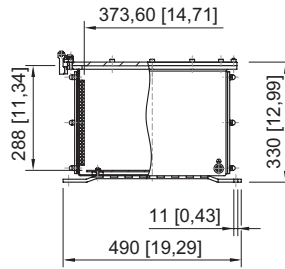
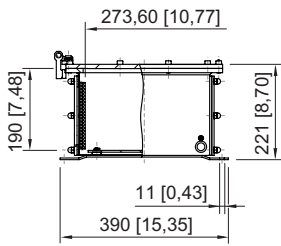
E3



- A = Mounting distance (outer) to other fixed objects
- | | |
|--------------------|--------------------|
| Enclosure size 20: | A = 134 mm [5.28] |
| Enclosure size 31: | A = 100 mm [3.94] |
| Enclosure size 41: | A = 162 mm [6.38] |
| Enclosure size 62: | A = 300 mm [11.81] |

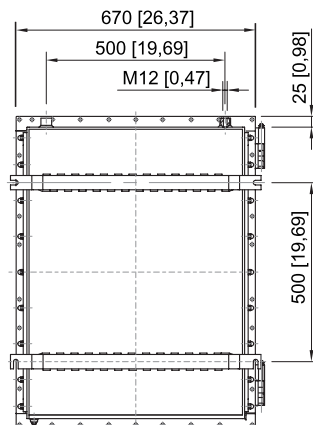
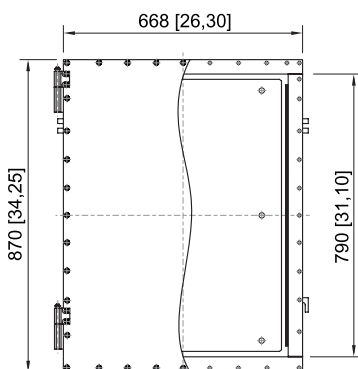
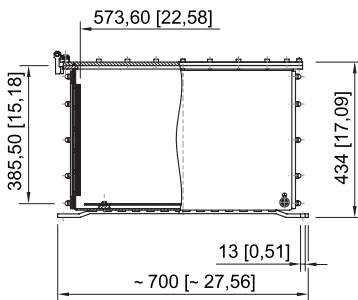
Mounting distance (inner) to the grid

- 1 = Grid
- 12 = Rupture disk



Enclosure size 20

Enclosure size 31

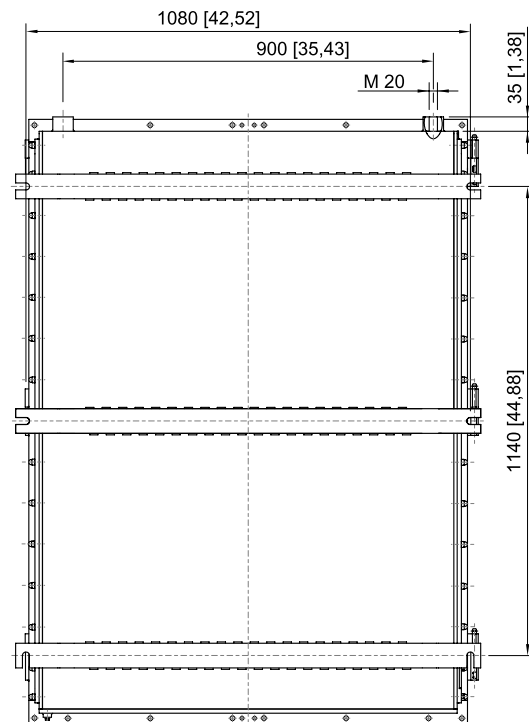
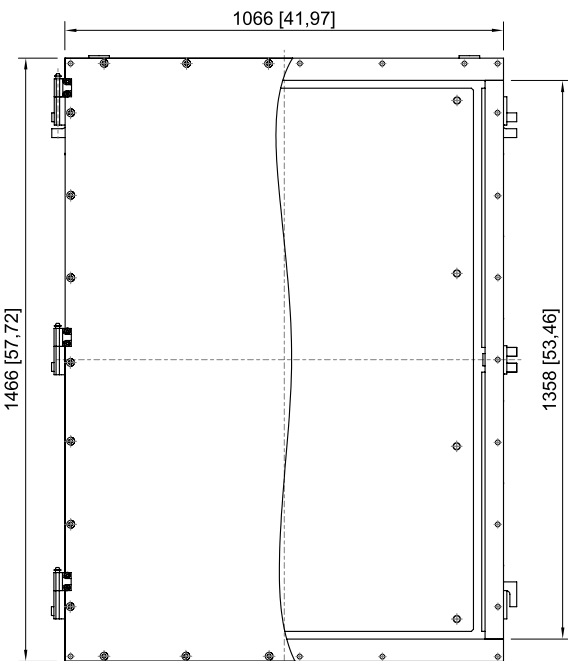
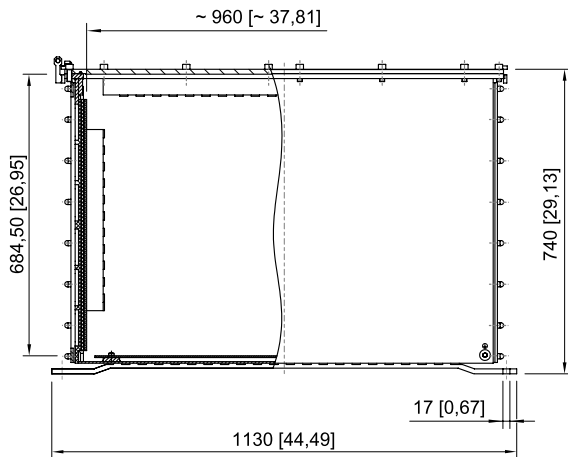


Enclosure size 41

E3

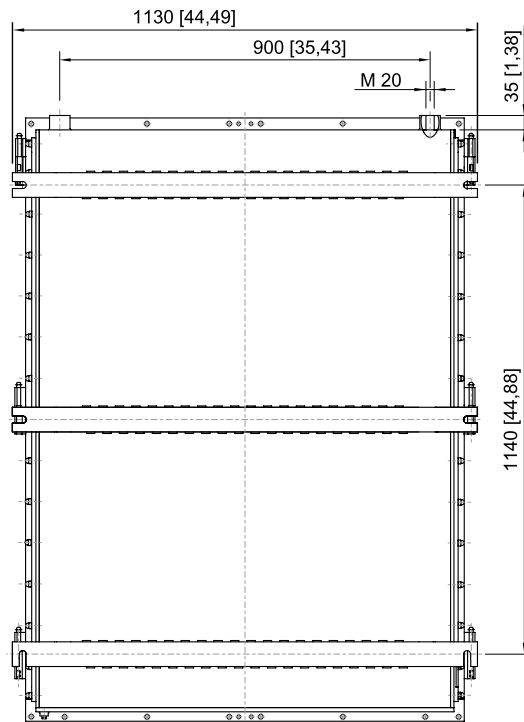
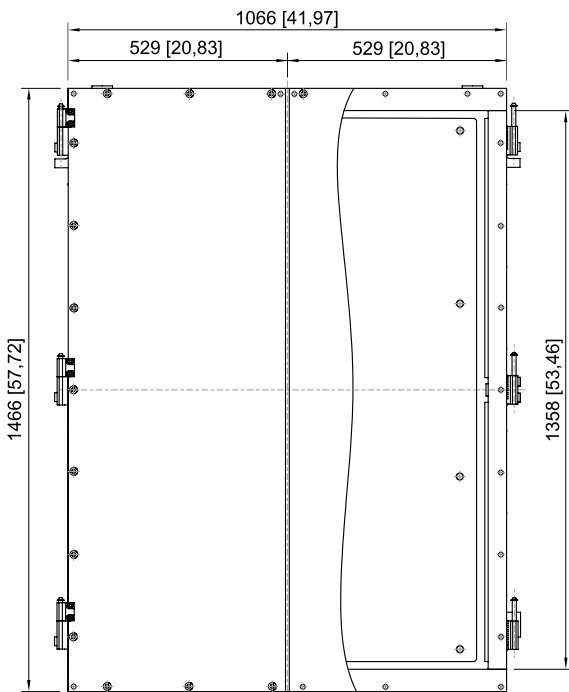
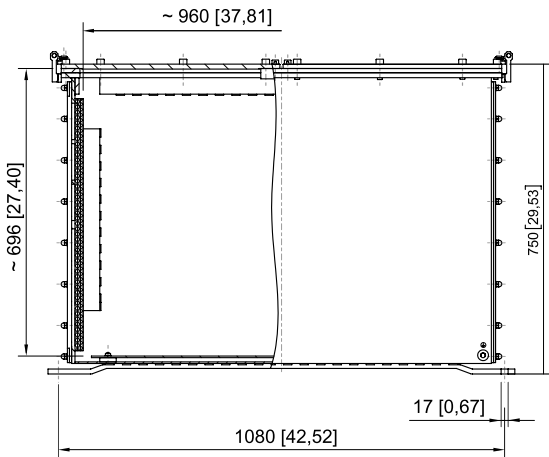
Ex d Cabinet/EXpressure Empty Enclosure

Series 8280 Flameproof Enclosure, made of Stainless Steel



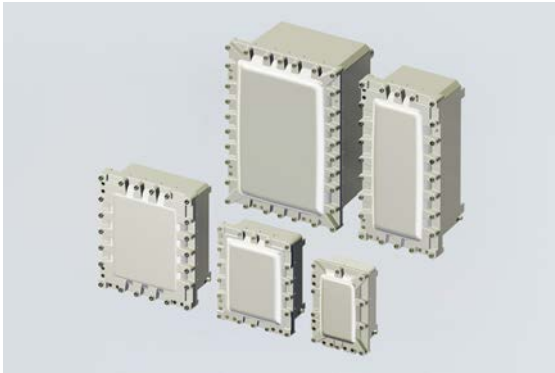
Enclosure size 62
with 1 cover

E3



Enclosure size 62
 with 2 covers

E3



- Cost-effective single enclosure
- Light-weight construction
- Temperature range for worldwide use
- Retrofittable hinges
- Seawater-resistant aluminium
- Captive screws

WebCode **8250A**




The enclosure is used to build motor control units, control stations and terminal boxes with type of protection Ex d. It is suitable for the installation of customer-specific control panels. The enclosure allows installation and operation of arcing equipment in Zones 1, 2, 21 and 22.

For direct cable entry into the enclosures, flameproof cable glands with type of protection Ex d or threaded holes for conduit connection can be applied.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table							
Enclosure material	Cast aluminium alloy AlSi7mg0.3						
Cover fixing type	With captive screws, Without hinge						
Figure	Enclosure size	Dimensions (WxHxD)	Built-in components	Product Type	Art. No.	PS	Weight kg
	1	150 x 250 x 110 mm	Without	8250/0-0250-0150-110-320031	245599	10	8.220
	2	230 x 300 x 125 mm	Without	8250/0-0300-0230-125-320031	245600	10	12.650
	3	300 x 370 x 160 mm	Without	8250/0-0370-0300-160-320031	221625	10	19.250
	4	230 x 540 x 230 mm	Without	8250/0-0540-0230-230-320031	226064	10	30.000

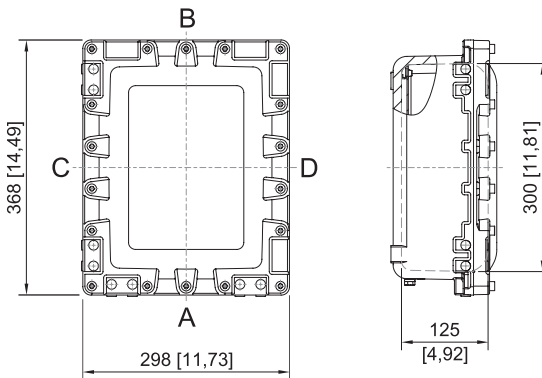
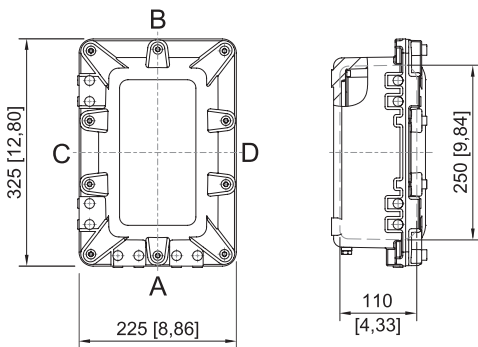
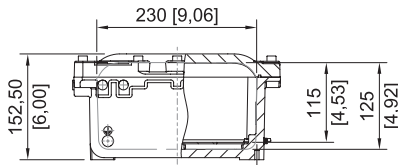
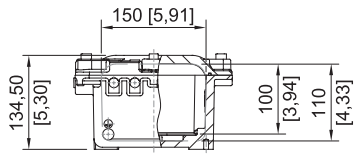
E3

Selection Table							
Enclosure material	Cast aluminium alloy AlSi7mg0.3						
Cover fixing type	With captive screws, Without hinge						
Figure	Enclosure size	Dimensions (WxHxD)	Built-in components	Product Type	Art. No.	PS	Weight kg
	5	360 x 540 x 300 mm	Without	8250/0-0540-0360-300-320031	226100	10	50.000

Empty enclosures without drillings

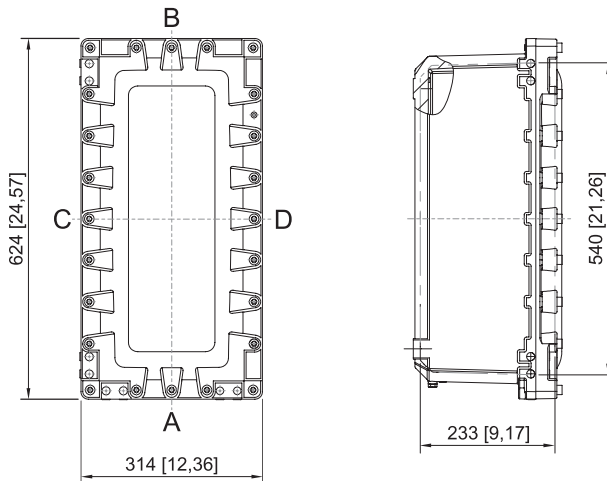
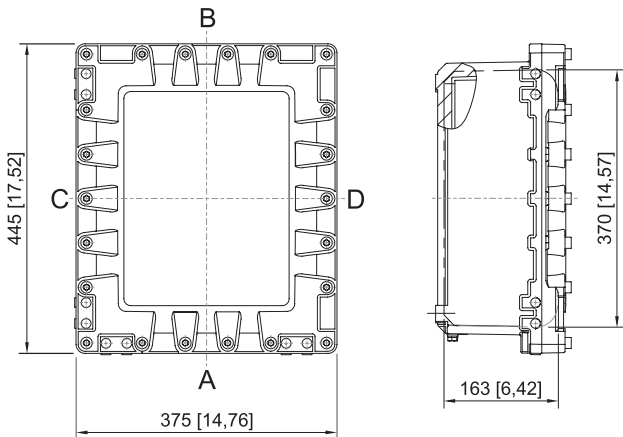
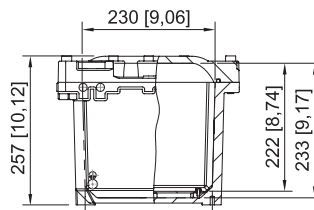
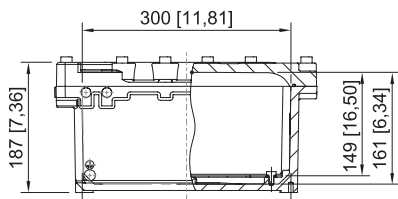
Technical Data		
Explosion Protection		
Gas explosion protection IECEx	Ex db IIB T4-T6 Gb	
Gas explosion protection ATEX	Ⓔ II 2 G Ex db IIB T4-T6 Gb	
Gas explosion protection EAC	Ex db IIB GbU Ex db IIB+H2 Gb U	
Dust explosion protection IECEx	Ex tb IIIC T80°C-130°C Db	
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T80°C-130°C Db	
Dust explosion protection EAC	Ex tb IIIC Db U	
Certificates	ATEX (BVS), EAC (STV), IECEx (BVS), India (PESO)	
Electrical Data		
Notes	Protective conductor connection:	inside/outside on the enclosure (threaded holes), M8 threaded screw, tightening torque: 2.8 Nm
Ambient Conditions		
Ambient temperature	-60 °C ... +70 °C (For IIB) -60 °C ... +60 °C (For IIB+H2)	
Storage temperature	-60 °C ... +80 °C	
Notes	-55 °C ... +55 °C with actuation axis, coupler, inspection window	
Mechanical Data		
Degree of protection (IP)	IP66	
Notes	Cover lock: Wall mounting:	captive M8 stainless steel allen screws; tightening torque M8 = 15 Nm, M10 = 18 Nm using a mounting bracket or directly into the enclosure base

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Enclosure size 1 without hinge

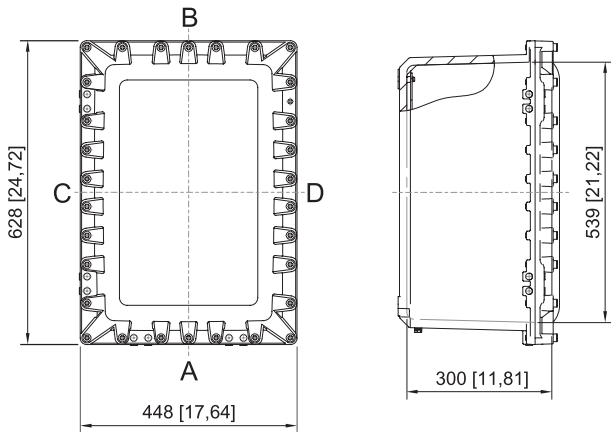
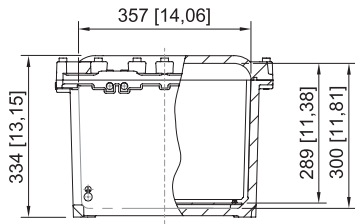
Enclosure size 2 without hinge



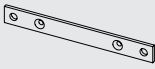
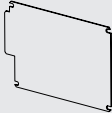
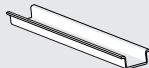
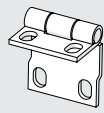


Enclosure size 3 without hinge

Enclosure size 4 without hinge

E3



Enclosure size 5 without hinge

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Wall mounting			
	Fastening tape size 1	224231	0.900
	Fastening tape size 2	224232	1.130
	Fastening tape size 4	225912	1.150
	Fastening tape size 3	225911	1.400
	Fastening tape size 5	225913	1.500
Mounting plate			
	for size 1	224226	0.700
	for size 2	224227	0.900
	for size 3	225906	1.750
	for size 4	225907	2.460
	for size 5	225908	3.900
Mounting rail			
	for enclosure size 1, including fastening material	224228	0.150
	for enclosure size 2, including fastening material	224229	0.110
	for enclosure size 3, including fastening material	225909	0.130
	for enclosures size 4 and 5, including fastening material	225910	0.180
Hinge			
	Hinge, size 1 to 5	224230	-
Adhesive			
	Novasil S30 transparent, 90 ml tube	230351	0.020
Lubricating grease for thread gap			
	Grease for low temperatures	105077	1.070

E3



- For use in Zones 1, 2, 21 and 22, degree of protection IP66, extreme temperature range of -50 ... +55 °C
- Optional: pluggable, easily retrofittable Ex e or Ex i auxiliary contacts for control and signalling purposes
- With motor switching capacity AC-3 in accordance IEC/EN 60947-3
- Variants for use in the US / Canada upon request

WebCode **8570A**



R. STAHL Series 8570/11 SolConeX sockets for Zone 1/21 in a 3-, 4- and 5-pole version have full AC-3 switching capacity up to 16 A. The high degree of protection IP66 guarantees the highest level of protection against the penetration of dust and water in any application position. Self-cleaning lamellar contacts provide optimum contact and the plugs can be inserted and removed in the zero position quickly and easily. The load disconnect switch, with mechanical locking device and a handle that can be locked in the 0 or I position, is an additional safety feature.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	3 P (2 P + PE)	2	51 – 500 V	-	Green	301 – 500 Hz	8570/11-302	150594	10	1.120
	4 P (3 P + PE)	10	51 – 690 V	-	Green	100 – 300 Hz	8570/11-410	150570	10	1.350

Selection Table

Rated operational current		0 – 16 A								
Auxiliary contacts available		No								
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	3 P (2 P + PE)	3	–	51 – 110 V	Light grey	–	8570/11-303	150590	10	1.120
		6	200 – 250 V	–	Blue	50 – 60 Hz	8570/11-306-S011	203090 ▲	10	1.120
		6	200 – 250 V	–	Blue	50 – 60 Hz	8570/11-306-S019	214065 ▲	10	1.120
		6	200 – 250 V	–	Blue	50 – 60 Hz	8570/11-306	150578 ▲	10	1.120
		7	480 – 500 V	–	Black	50 – 60 Hz	8570/11-307	150586 ▲	10	1.120
		9	380 – 415 V	–	Red	50 – 60 Hz	8570/11-309	218317	10	1.120
	3 P (1 P + N + PE)	4	100 – 130 V	–	Yellow	50 – 60 Hz	8570/11-304-S011	203141	10	1.120
		4	100 – 130 V	–	Yellow	50 – 60 Hz	8570/11-304-S019	218955	10	1.120
		4	100 – 130 V	–	Yellow	50 – 60 Hz	8570/11-304	150598 ▲	10	1.120
		5	277 – 277 V	–	Light grey	60 – 60 Hz	8570/11-305	150582	10	1.120
	4 P (3 P + PE)	2	51 – 690 V	–	Green	301 – 500 Hz	8570/11-402	218315	10	1.350
		3	380 – 380 V	–	Red	50 – 50 Hz	8570/11-403	218314	10	1.350
		4	100 – 130 V	–	Yellow	50 – 60 Hz	8570/11-404	218316	10	1.350
		5	600 – 690 V	–	Black	50 – 60 Hz	8570/11-405-S020	218962	10	1.350
		5	600 – 690 V	–	Black	50 – 60 Hz	8570/11-405	150562	10	1.350
		6	380 – 415 V	–	Red	50 – 60 Hz	8570/11-406-S012	203142	10	1.350
		6	380 – 415 V	–	Red	50 – 60 Hz	8570/11-406-S020	214066	10	1.350
		6	380 – 415 V	–	Red	50 – 60 Hz	8570/11-406	150550 ▲	10	1.350
		7	480 – 500 V	–	Black	50 – 60 Hz	8570/11-407-S020	218961	10	1.350
		7	480 – 500 V	–	Black	50 – 60 Hz	8570/11-407	150554 ▲	10	1.350
		9	200 – 250 V	–	Blue	50 – 60 Hz	8570/11-409-S020	218959	10	1.350
		9	200 – 250 V	–	Blue	50 – 60 Hz	8570/11-409	150558 ▲	10	1.350
		11	440 – 460 V	–	Red	60 – 60 Hz	8570/11-411	150566	10	1.350
			5 P (3 P + N + PE)	3	220 – 380 V	–	Red	50 – 50 Hz	8570/11-503	218312
4	57 – 100 V / 75 – 130 V			–	Yellow	50 – 60 Hz	8570/11-504	218313	10	1.450
5	347 – 400 V / 600 – 690 V			–	Black	50 – 60 Hz	8570/11-505	150527	10	1.450
6	200 – 240 V / 346 – 415 V			–	Red	50 – 60 Hz	8570/11-506-S020	214067	10	1.450
6	200 – 240 V / 346 – 415 V			–	Red	50 – 60 Hz	8570/11-506	150494 ▲	10	1.450
7	277 – 288 V / 480 – 500 V			–	Black	50 – 60 Hz	8570/11-507	150508 ▲	10	1.450
9	120 – 144 V / 208 – 250 V			–	Blue	50 – 60 Hz	8570/11-509	150518 ▲	10	1.450
11	250 – 265 V / 440 – 460 V			–	Red	60 – 60 Hz	8570/11-511	150538	10	1.450

E3

Selection Table

Rated operational current		0 – 16 A								
Auxiliary contacts available		Yes								
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	3 P (2 P + PE)	6	200 – 250 V	–	Blue	50 – 60 Hz	8570/11-306-S001	166609 ▲	10	1.120
	4 P (3 P + PE)	5	600 – 690 V	–	Black	50 – 60 Hz	8570/11-405-S001	218963	10	1.350
		6	380 – 415 V	–	Red	50 – 60 Hz	8570/11-406-S001	218960	10	1.350
		7	480 – 500 V	–	Black	50 – 60 Hz	8570/11-407-S001	166608 ▲	10	1.350
	5 P (3 P + N + PE)	6	200 – 240 V / 346 – 415 V	–	Red	50 – 60 Hz	8570/11-506-S001	218964 ▲	10	1.600

Variants with temperature range of -50 ... +55 °C available on request

For information on compatible plugs, see page 544

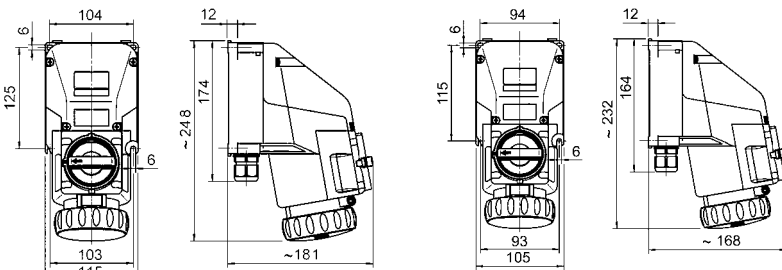
For information on cable glands and other accessories, see Chapter E10, page 808

Technical Data

Variant	8570/11-...	8570/11-...-S001	8570/11-...-S011 8570/11-...-S012	8570/11-...-S019 8570/11-...-S020
Explosion Protection				
Ambient temperature °C	-30 ... +40 °C	-30 ... +55 °C	-30 ... +55 °C	-30 ... +55 °C
Gas explosion protection IECEx	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex db eb IIC T6 Gb	⊕ II 2 G Ex db eb IIC T6 Gb	⊕ II 2 G Ex db eb IIC T6 Gb	⊕ II 2 G Ex db eb IIC T6 Gb
Gas explosion protection EAC	2 Ex de IIC T6 2 Ex de [ia] IIC T6	2 Ex de IIC T6 2 Ex de [ia] IIC T6	2 Ex de IIC T6 2 Ex de [ia] IIC T6	2 Ex de IIC T6 2 Ex de [ia] IIC T6
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T80 °C Db	⊕ II 2 D Ex tb IIIC T80 °C Db	⊕ II 2 D Ex tb IIIC T80 °C Db	⊕ II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tD A21 IP66 T80 °C	Ex tD A21 IP66 T80 °C	Ex tD A21 IP66 T80 °C	Ex tD A21 IP66 T80 °C
Certificates	ATEX (PTB), Brazil (ULB), EAC (STV), IECEx (PTB)	ATEX (PTB), Brazil (ULB), EAC (STV), IECEx (PTB)	ATEX (PTB), Brazil (ULB), EAC (STV), IECEx (PTB)	ATEX (PTB), Brazil (ULB), EAC (STV), IECEx (PTB)
Ambient Conditions				
Notes	Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.			
Mechanical Data				
Degree of protection (IP)	IP66	IP66	IP66	IP66
Type of protection note	according to IEC/EN 60529	according to IEC/EN 60529	according to IEC/EN 60529	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced	Polyamide, Glass fibre reinforced	Polyamide, Glass fibre reinforced	Polyamide, Glass fibre reinforced
Silicone-free	Yes	Yes	Yes	Yes
Connection terminals min.	1.5 mm ²	1.5 mm ²	1.5 mm ²	1.5 mm ²
Connection terminals solid max.	2 x 6 mm ²	2 x 6 mm ²	2 x 6 mm ²	2 x 6 mm ²
Connection terminals finely-stranded max.	2 x 4 mm ²	2 x 4 mm ²	2 x 4 mm ²	2 x 4 mm ²
Lockable in	in 0- and I-position	in 0- and I-position	in 0- and I-position	in 0- and I-position
Components				
Plate with threaded holes			With 2 x M25 x 1.5	With 2 x M25-M20
Screw connections	1 x M25	2 x M25	Can be ordered as accessories	Can be ordered as accessories
Cable diameter	7 – 17 mm	7 – 17 mm		
Cable diameter 2		7 – 17 mm		
Material of screw connections	Polyamide, black	Polyamide, black		

Technical Data				
Variant	8570/11-...	8570/11-...-S001	8570/11-...-S011 8570/11-...-S012	8570/11-...-S019 8570/11-...-S020
Components				
Stopping plug	1 x M25		2 x M25	1 x M20
Stopping plug material	Polyamide, black		Polyamide, black	Polyamide, black
Notes	Plate with threaded holes: made of brass, for metal cable glands Screw connections: positioning on the top or at the side, according to the order			
You can find more technical data online at r-stahl.com				
Accessories found on page 580				

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Wall-mounting socket 4-pole / 5-pole

Wall-mounting socket 3-pole

Arrangement of the Earth Contact Sleeves

Example:
Clock hour position,
Front view of socket

Example:
Clock hour position

230 V = 6 h

Marking of connections
Front view of socket

E3



- Degree of protection IP66, suitable for Zones 1, 2, 21 and 22 worldwide, extreme temperature range of -50 ... +55 °C
- No impact of torsional forces from the cable on the seal
- Full compatibility between SolConeX and CES devices
- Variants for use in the US / Canada upon request

WebCode **8570E**



R. STAHL Series 8570/12 SolConeX plugs for Zone 1/21 are 3-, 4- or 5-pole 16 A plugs. The floating pins allow them to be inserted and removed quickly and easily. The pivoting strain relief makes it easier to install the cable. Self-cleaning and corrosion-free plug pins made from high-quality materials ensure optimum electrical contact.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E3

Selection Table										
Detailed number of poles		3 P (2 P + PE)								
Rated operational current		0 – 12 A								
Figure	Ambient temperature °C	Silicone-free	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	No	2	51 – 500 V	Green	301 – 500 Hz	8570/12-302	257776	10	0.420
	-30 ... +55 °C	Yes	2	51 – 500 V	Green	301 – 500 Hz	8570/12-302	150595	10	0.420
Detailed number of poles		3 P (2 P + PE)								
Rated operational current		0 – 16 A								
Rated operational voltage DC		51 – 110 V								
Figure	Ambient temperature °C	Silicone-free	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	No	3	-	Light grey	-	8570/12-303	257777 ▲	10	0.420
	-30 ... +55 °C	Yes	3	-	Light grey	-	8570/12-303	150591 ▲	10	0.420

Selection Table										
Detailed number of poles		3 P (2 P + PE)								
Rated operational current		0 – 16 A								
Figure	Ambient temperature °C	Silicone-free	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	No	6	200 – 250 V	Blue	50 – 60 Hz	8570/12-306	257780	10	0.420
		No	7	480 – 500 V	Black	50 – 60 Hz	8570/12-307	257970	10	0.420
		No	9	380 – 415 V	Red	50 – 60 Hz	8570/12-309	258031	10	0.420
	-30 ... +55 °C	Yes	6	200 – 250 V	Blue	50 – 60 Hz	8570/12-306	150579 ▲	10	0.420
		Yes	7	480 – 500 V	Black	50 – 60 Hz	8570/12-307	150587	10	0.420
		Yes	9	380 – 415 V	Red	50 – 60 Hz	8570/12-309	220031	10	0.420
Detailed number of poles		3 P (1 P + N + PE)								
Rated operational current		0 – 16 A								
Figure	Ambient temperature °C	Silicone-free	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	No	4	100 – 130 V	Yellow	50 – 60 Hz	8570/12-304	257778 ▲	10	0.420
		No	5	277 – 277 V	Light grey	60 – 60 Hz	8570/12-305	257779	10	0.420
	-30 ... +55 °C	Yes	4	100 – 130 V	Yellow	50 – 60 Hz	8570/12-304	150599 ▲	10	0.420
		Yes	5	277 – 277 V	Light grey	60 – 60 Hz	8570/12-305	150583	10	0.420
Detailed number of poles		4 P (3 P + PE)								
Rated operational current		0 – 12 A								
Figure	Ambient temperature °C	Silicone-free	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	No	2	51 – 690 V	Green	301 – 500 Hz	8570/12-402	258046	10	0.420
		No	10	51 – 690 V	Green	100 – 300 Hz	8570/12-410	258044 ▲	10	0.420
	-30 ... +55 °C	Yes	2	51 – 690 V	Green	301 – 500 Hz	8570/12-402	219949	10	0.380
		Yes	10	51 – 690 V	Green	100 – 300 Hz	8570/12-410	150571 ▲	10	0.380
Detailed number of poles		4 P (3 P + PE)								
Rated operational current		0 – 16 A								
Figure	Ambient temperature °C	Silicone-free	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	No	3	380 – 380 V	Red	50 – 50 Hz	8570/12-403	258045	10	0.420
		No	4	100 – 130 V	Yellow	50 – 60 Hz	8570/12-404	258047 ▲	10	0.420
		No	5	600 – 690 V	Black	50 – 60 Hz	8570/12-405	258042 ▲	10	0.420
		No	6	380 – 415 V	Red	50 – 60 Hz	8570/12-406	258039 ▲	10	0.420
		No	7	480 – 500 V	Black	50 – 60 Hz	8570/12-407	258040 ▲	10	0.420
		No	9	200 – 250 V	Blue	50 – 60 Hz	8570/12-409	258041 ▲	10	0.420
		No	11	440 – 460 V	Red	60 – 60 Hz	8570/12-411	258043	10	0.420
	-30 ... +55 °C	Yes	3	380 – 380 V	Red	50 – 50 Hz	8570/12-403	219948	10	0.380
		Yes	4	100 – 130 V	Yellow	50 – 60 Hz	8570/12-404	219950 ▲	10	0.380
		Yes	5	600 – 690 V	Black	50 – 60 Hz	8570/12-405	150563	10	0.380
		Yes	6	380 – 415 V	Red	50 – 60 Hz	8570/12-406	150551 ▲	10	0.380
		Yes	7	480 – 500 V	Black	50 – 60 Hz	8570/12-407	150555 ▲	10	0.380
		Yes	9	200 – 250 V	Blue	50 – 60 Hz	8570/12-409	150559 ▲	10	0.380
		Yes	11	440 – 460 V	Red	60 – 60 Hz	8570/12-411	150567	10	0.380

Selection Table

Detailed number of poles		5 P (3 P + N + PE)								
Rated operational current		0 – 16 A								
Figure	Ambient temperature °C	Silicone-free	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	No	3	220 – 380 V	Red	50 – 50 Hz	8570/12-503	258037	10	0.420
		No	4	57 – 75 V / 100 – 130 V	Yellow	50 – 60 Hz	8570/12-504	258038	10	0.420
		No	5	347 – 400 V / 600 – 690 V	Black	50 – 60 Hz	8570/12-505	258035	10	0.420
		No	6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8570/12-506	258032▲	10	0.420
		No	7	277 – 288 V / 480 – 500 V	Black	50 – 60 Hz	8570/12-507	258033▲	10	0.420
		No	9	120 – 144 V / 208 – 250 V	Blue	50 – 60 Hz	8570/12-509	258034▲	10	0.420
		No	11	250 – 265 V / 440 – 460 V	Red	60 – 60 Hz	8570/12-511	258036	10	0.420
	-30 ... +55 °C	Yes	3	220 – 380 V	Red	50 – 50 Hz	8570/12-503	219946	10	0.450
		Yes	4	57 – 75 V / 100 – 130 V	Yellow	50 – 60 Hz	8570/12-504	219947	10	0.450
		Yes	5	347 – 400 V / 600 – 690 V	Black	50 – 60 Hz	8570/12-505	150528	10	0.430
		Yes	6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8570/12-506	150495▲	10	0.430
		Yes	7	277 – 288 V / 480 – 500 V	Black	50 – 60 Hz	8570/12-507	150509▲	10	0.430
		Yes	9	120 – 144 V / 208 – 250 V	Blue	50 – 60 Hz	8570/12-509	150519▲	10	0.430
		Yes	11	250 – 265 V / 440 – 460 V	Red	60 – 60 Hz	8570/12-511	150539	10	0.430

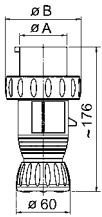
E3

Technical Data

Explosion Protection	
Gas explosion protection IECEx	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	II 2 G Ex db eb IIC T6 Gb
Gas explosion protection EAC	2 Ex de IIC T6 2 Ex de [ia] IIC T6
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tD A21 IP66 T80 °C
Certificates	ATEX (PTB), Brazil (ULB), EAC (STV), IECEx (PTB)
Ambient Conditions	
Notes	Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	Yes
Connection terminals min.	1.5 mm ²
Connection terminals finely-stranded max.	2 x 4 mm ²
Components	
Cable diameter	8 – 18 mm
Cable diameter note	Ring 1 + 2 + 3 + 4: 8 ... 11 mm Ring 2 + 3 + 4: 11 ... 15 mm Ring 3 + 4: 15 ... 18 mm

Accessories found on page 580

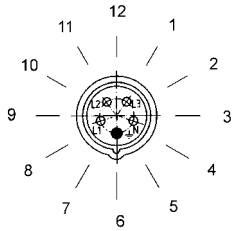
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



3 P (2 P + PE):	A = 43.5 mm B = 76 mm
4 P (3 P + PE):	A = 49 mm B = 89 mm
5 P (3 P + N + PE):	A = 56.5 mm B = 92 mm

Arrangement of the Earth Contact Sleeves

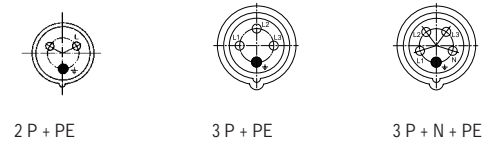
Example:
Clock hour position,
Front view of plug



Example:
Clock hour position



Marking of connections
Front view of plug





- Zones 1, 2, 21, 22, degree of protection IP66, extreme temperature range of -50 ... +65 °C
- Full AC-3 switching capacity according to IEC/EN 60947-3
- Wear-free contacts even in aggressive atmosphere
- Small dimensions

WebCode **8572A**



The sockets in the new R. STAHL Series 8572/13 are 16 A compact sockets for voltages up to 277 V. Self-cleaning lamellar contacts provide optimum contact. Compact dimensions and a deep-drawn enclosure are required for fast electrical installation. The integrated locking mechanism prevents disconnection under load.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Detailed number of poles			1 P + N + PE							
Product Description			Small socket							
Rated operational current			10 – 16 A							
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +45 °C	4	100 – 130 V	-	Yellow	50 – 60 Hz	8572/13-304	242336	10	0.380
		5	277 – 277 V	-	Light grey	60 – 60 Hz	8572/13-305	242335	10	0.380
Detailed number of poles			2 P + PE							
Product Description			Small socket							
Rated operational current			10 – 12 A							
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	2	51 – 277 V	-	Green	301 – 500 Hz	8572/13-302	242338	10	0.380
Detailed number of poles			2 P + PE							
Product Description			Small socket							
Rated operational current			10 – 16 A							
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +45 °C	3	-	51 – 110 V	Light grey	-	8572/13-303	242337	10	0.380
		6	200 – 250 V	-	Blue	50 – 60 Hz	8572/13-306	242334	10	0.380

Selection Table

Detailed number of poles		2 P + PE								
Product Description		Small socket to an isolation transformer								
Rated operational current		10 – 16 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +45 °C	12	–	–	Blue	50 – 60 Hz	8572/13-312	242339	10	0.380

The current must be reduced to 12 A for frequencies > 100 Hz

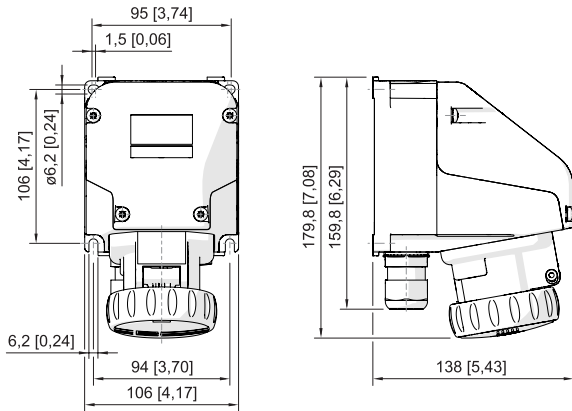
For information on compatible plugs, see page 544
For information on cable glands, see Chapter E10, page 812

Technical Data

Explosion Protection	
Gas explosion protection IECEx	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC T6 Gb
Gas explosion protection EAC	1 Ex db e IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T75 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T75 °C Db
Dust explosion protection EAC	Ex tb IIC T75 °C Db Ex tb IIIC T60 °C...T75°C Db
Certificates	ATEX (PTB), China (CQST), EAC (CCVE), IECEx (PTB)
Electrical Data	
Auxiliary contacts available	No
Ambient Conditions	
Notes	Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	No
Connection terminals min.	0.75 mm ²
Connection terminals solid max.	2 x 4 mm ²
Connection terminals finely-stranded max.	2 x 4 mm ²
Components	
Screw connections	1 x M25
Cable diameter	7 – 17 mm
Material of screw connections	Polyamide, black
Stopping plug	1 x M25
Stopping plug material	Polyamide, black
Notes	Screw connections: according to order, positioning on the top or at the side also possible optional: on the top max. 2 x M25 x 1.5 also available with stopping plugs or metallic entries

Accessories found on page 580

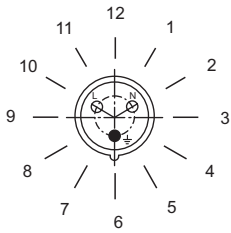
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Wall-mounting socket, compact 3-pole

Arrangement of the Earth Contact Sleeves

Example:
Clock hour position,
Front view of socket



Example:
Clock hour position



200 ... 250 V = 6 h

Marking of connections
Front view of socket



2 P + PE



1 P + N + PE

E3



- Zones 1, 2, 21, 22, degree of protection IP66, extreme temperature range of -50 ... +55 °C
- Full AC-3 switching capacity according to IEC/EN 60947-3
- Wear-free, corrosion-resistant contacts even in aggressive atmosphere

WebCode **8572B**



R. STAHL Series 8572/14 coupler are 3-pole 16 A compact coupler made from robust plastic for voltages up to 277 V. Self-cleaning lamellar contacts provide optimum contact and the floating pins allow the plugs to be inserted and removed in the zero position with minimum effort. The integrated locking mechanism prevents disconnection under load.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table										
Detailed number of poles		1 P + N + PE								
Product Description		Coupler socket								
Rated operational current		10 – 16 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +45 °C	4	100 – 130 V	–	Yellow	50 – 60 Hz	8572/14-304	242343	10	0.380
		5	277 – 277 V	–	Light grey	60 – 60 Hz	8572/14-305	242342	10	0.380
Detailed number of poles		2 P + PE								
Product Description		Coupler socket								
Rated operational current		10 – 12 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	2	51 – 277 V	–	Green	301 – 500 Hz	8572/14-302	242345	10	0.380
Detailed number of poles		2 P + PE								
Product Description		Coupler socket								
Rated operational current		10 – 16 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +45 °C	3	–	51 – 110 V	Light grey	–	8572/14-303	242344	10	0.380
		6	200 – 250 V	–	Blue	50 – 60 Hz	8572/14-306	242341	10	0.380

E3

Selection Table

Detailed number of poles	2 P + PE									
Product Description	Coupler socket to an isolation transformer									
Rated operational current	10 – 16 A									
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +45 °C	12	–	–	Blue	50 – 60 Hz	8572/14-312	242346	10	0.380

The current must be reduced to 12 A for frequencies > 100 Hz

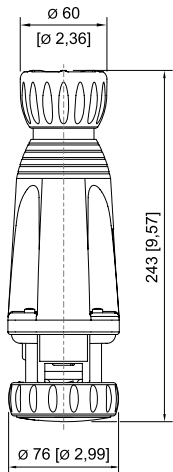
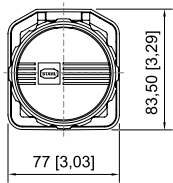
For information on compatible plugs, see page 544

Technical Data

Explosion Protection	
Gas explosion protection IECEx	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC T6 Gb
Gas explosion protection EAC	1 Ex db e IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T75 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T75 °C Db
Dust explosion protection EAC	Ex tb IIC T75 °C Db Ex tb IIIC T60 °C...T75°C Db
Certificates	ATEX (PTB), China (CQST), EAC (CCVE), IECEx (PTB)
Ambient Conditions	
Notes	Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	No
Connection terminals min.	0.75 mm ²
Connection terminals finely-stranded max.	1 x 4 mm ²
Components	
Cable diameter	8 – 15 mm
Cable diameter note	Ring 1 + 2 + 3 + 4: 8 ... 11 mm Ring 2 + 3 + 4: 11 ... 15 mm

Accessories found on page 580

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

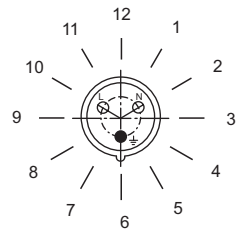


Coupler

Arrangement of the Earth Contact Sleeves

E3

Example:
Clock hour position,
Front view of socket



Example:
Clock hour position



200 ... 250 V = 6 h

Marking of connections
Front view of socket



2 P + PE



1 P + N + PE



- Zones 1, 2, 21, 22, degree of protection IP66, extreme temperature range of -50 ... +60 °C
- Full AC-3 switching capacity according to IEC/EN 60947-3
- Wear-free contacts even in aggressive atmosphere
- Compact design

WebCode **8573B**



The sockets of the new R. STAHL Series 8573/13 are for 2- or 3-pole applications up to 16 A. The compact sockets for extra-low voltage up to 50 V are made from robust and chemical-resistant plastics. Self-cleaning lamellar contacts provide optimum contact. The integrated rotary switch mechanism and integrated locking device reliably prevent disconnection under loads.

The new compact socket from Series 8573/13 replaces Series 8575 sockets, is 100% compatible with this series and can be used with Series 8575 plugs.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Detailed number of poles		2 P								
Rated operational current		10 – 12 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	2	20 – 25 V / 40 – 50 V	-	Green	300 – 300 Hz	8573/13-202	243158	10	0.300
		3	20 – 25 V / 40 – 50 V	-	Green	400 – 400 Hz	8573/13-203	243159	10	0.300
		4	20 – 25 V / 40 – 50 V	-	Green	100 – 200 Hz	8573/13-204	243160	10	0.300
		11	20 – 25 V / 40 – 50 V	-	Green	401 – 500 Hz	8573/13-211	243171	10	0.300
Detailed number of poles		2 P								
Rated operational current		10 – 16 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +40 °C	0	20 – 25 V	-	Violet	50 – 60 Hz	8573/13-200	243157	10	0.300
		10	-	20 – 25 V	Violet	-	8573/13-210	243173	10	0.300
		12	40 – 50 V	-	Light grey	50 – 60 Hz	8573/13-212	243172	10	0.300

Selection Table

Detailed number of poles		3 P		Rated operational current		10 – 12 A				
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	2	20 – 25 V / 40 – 50 V	–	Green	300 – 300 Hz	8573/13-302	241384	10	0.300
		3	20 – 25 V / 40 – 50 V	–	Green	400 – 400 Hz	8573/13-303	243152	10	0.300
		4	20 – 25 V / 40 – 50 V	–	Green	100 – 200 Hz	8573/13-304	243153	10	0.300
		11	20 – 25 V / 40 – 50 V	–	Green	401 – 500 Hz	8573/13-311	243154	10	0.300
Detailed number of poles		3 P		Rated operational current		10 – 16 A				
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +40 °C	0	20 – 25 V	–	Violet	50 – 60 Hz	8573/13-300	241380	10	0.300
		12	40 – 50 V	–	Light grey	50 – 60 Hz	8573/13-312	243155	10	0.300

The current must be reduced to 12 A for frequencies > 100 Hz

For information on compatible plugs, see page 557

For information on cable glands, see Chapter E10, page 812

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC T6 Gb
Gas explosion protection EAC	1 Ex db e IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T70 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T70 °C Db
Dust explosion protection EAC	Ex tb IIIC T70 °C Db Ex tb IIIC T60 °C...T75°C Db

Certificates ATEX (PTB), EAC (CCVE), IECEx (PTB)

Electrical Data

Auxiliary contacts available No

Ambient Conditions

Notes
 16 A: -50 ... +40 °C
 12 A: -50 ... +55 °C
 10 A: -50 ... +60 °C
 Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.

Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	No
Connection terminals min.	0.75 mm ²
Connection terminals solid max.	2 x 4 mm ²
Connection terminals finely-stranded max.	2 x 4 mm ²

Components

Screw connections	1 x M25
Cable diameter	7 – 17 mm
Material of screw connections	Polyamide, black
Stopping plug	1 x M25

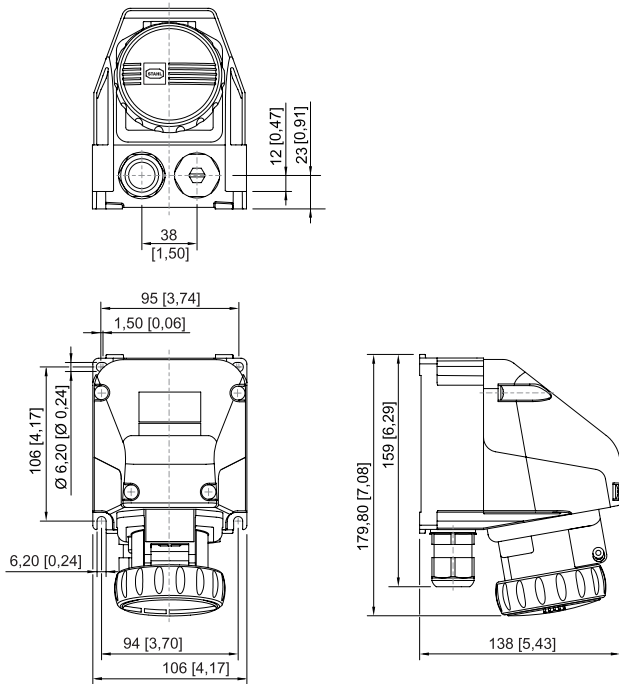
Technical Data

Components

Stopping plug material	Polyamide, black
Notes	<p>Screw connections: positioning on the top or at the side, according to the order optional: on the top max. 2 x M25 x 1.5 also available with stopping plug or metallic entries</p> <p>Stopping plug: when used in an application range of < -40 °C, the seal is only intended for a one-time installation replace the seal before mounting it again</p>

Accessories found on page 580

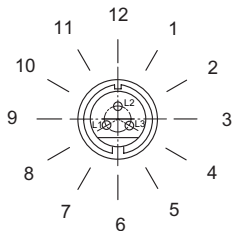
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



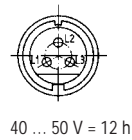
Wall-mounting socket, compact, extra-low voltage

Arrangement of the Earth Contact Sleeves

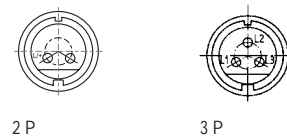
Example:
Clock hour position,
Front view of socket



Example:
Clock hour position



Marking of connections
Front view of socket





- Zones 1, 2, 21, 22, degree of protection IP66, extreme temperature range of -50 ... +60 °C
- For low voltages up to 50 V
- 16 A
- Wear-free contacts for aggressive atmosphere

WebCode **8573D**



The new R. STAHL Series 8573/12 plugs are designed for 2- or 3-pole applications up to 16 A. The robust plastic plugs are resistant to corrosive chemicals and gases. The floating pins allow them to be inserted and removed quickly and easily. The inner, pivoting strain relief makes it easier to install the cables quickly. Corrosion-free contact pins made from high-quality materials ensure optimum electrical contact. The new Series 8573/12 plug replaces the plug Series 8575, is 100% compatible with this Series and can be used with Series 8575 sockets.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E3

Selection Table										
Detailed number of poles		2 P								
Rated operational current		10 – 12 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	2	20 – 25 V / 40 – 50 V	–	Green	300 – 300 Hz	8573/12-202	243198	10	0.300
		3	20 – 25 V / 40 – 50 V	–	Green	400 – 400 Hz	8573/12-203	243199	10	0.300
		4	20 – 25 V / 40 – 50 V	–	Green	100 – 200 Hz	8573/12-204	243200	10	0.300
		11	20 – 25 V / 40 – 50 V	–	Green	401 – 500 Hz	8573/12-211	243201	10	0.300
Detailed number of poles		2 P								
Rated operational current		10 – 16 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +40 °C	0	20 – 25 V	–	Violet	50 – 60 Hz	8573/12-200	243197	10	0.300
		10	–	20 – 25 V	Violet	–	8573/12-210	243203	10	0.300
		12	40 – 50 V	–	Light grey	50 – 60 Hz	8573/12-212	243202	10	0.300

Selection Table

Detailed number of poles		3 P								
Rated operational current		10 – 12 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	2	20 – 25 V / 40 – 50 V	–	Green	300 – 300 Hz	8573/12-302	243191	10	0.300
		3	20 – 25 V / 40 – 50 V	–	Green	400 – 400 Hz	8573/12-303	243192	10	0.300
		4	20 – 25 V / 40 – 50 V	–	Green	100 – 200 Hz	8573/12-304	243193	10	0.300
		11	20 – 25 V / 40 – 50 V	–	Green	401 – 500 Hz	8573/12-311	243194	10	0.300
Detailed number of poles		3 P								
Rated operational current		10 – 16 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +40 °C	0	20 – 25 V	–	Violet	50 – 60 Hz	8573/12-300	243190▲	10	0.300
		12	40 – 50 V	–	Light grey	50 – 60 Hz	8573/12-312	243195	10	0.300

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex eb IIC T6 Gb
Gas explosion protection ATEX	Ex II 2 G Ex eb IIC T6 Gb
Gas explosion protection EAC	1 Ex db e IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T70 °C Db
Dust explosion protection ATEX	Ex II 2 D Ex tb IIIC T70 °C Db
Dust explosion protection EAC	Ex tb IIIC T70 °C Db Ex tb IIIC T60 °C...T75 °C Db
Certificates	ATEX (PTB), EAC (CCVE), IECEx (PTB)

Ambient Conditions

Notes	16 A: -50 ... +40 °C 12 A: -50 ... +55 °C 10 A: -50 ... +60 °C Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.
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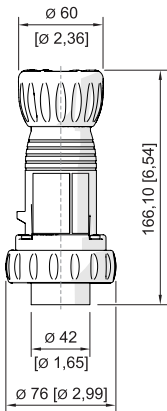
Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	No
Connection terminals min.	0.75 mm ²
Connection terminals finely-stranded max.	1 x 4 mm ²

Components

Cable diameter	8 – 15 mm	
Cable diameter note	Ring 1 + 2 + 3 + 4:	8 ... 11 mm
	Ring 2 + 3 + 4:	11 ... 15 mm

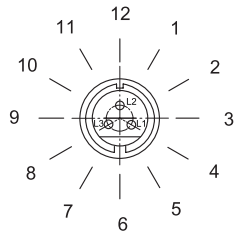
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



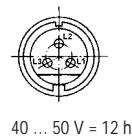
Plug extra-low voltage

Arrangement of the Earth Contact Sleeves

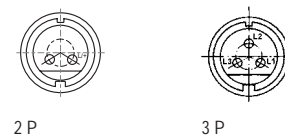
Example:
Clock hour position,
Front view of plug



Example:
Clock hour position



Marking of connections
Front view of plug



E3



- Degree of protection IP66, extreme temperature range of -50 ... +60 °C
- Full AC-3 switching capacity according to IEC/EN 60947-3
- Wear-free, corrosion-resistant contacts even in aggressive atmosphere

WebCode **8573C**



The new R. STAHL Series 8573/14 couplers are designed for 2- or 3-pole applications up to 16 A for low voltages up to 50 V. The robust, chemical-resistant plastic allows for a compact design. Self-cleaning lamellar contacts provide optimum contact. The integrated rotary switch mechanism and the integrated locking mechanism prevent disconnection under load.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E3

Selection Table										
Detailed number of poles		2 P								
Rated operational current		10 – 12 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	2	20 – 25 V / 40 – 50 V	-	Green	300 – 300 Hz	8573/14-202	243183	10	0.300
		3	20 – 25 V / 40 – 50 V	-	Green	400 – 400 Hz	8573/14-203	243184	10	0.300
		4	20 – 25 V / 40 – 50 V	-	Green	100 – 200 Hz	8573/14-204	243185	10	0.300
		11	20 – 25 V / 40 – 50 V	-	Green	401 – 500 Hz	8573/14-211	243186	10	0.300
Detailed number of poles		2 P								
Rated operational current		10 – 16 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +40 °C	0	20 – 25 V	-	Violet	50 – 60 Hz	8573/14-200	243182	10	0.300
		10	-	20 – 25 V	Violet	-	8573/14-210	243188	10	0.300
		12	40 – 50 V	-	Light grey	50 – 60 Hz	8573/14-212	243187	10	0.300

Selection Table

Detailed number of poles		3 P								
Rated operational current		10 – 12 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +55 °C	2	20 – 25 V / 40 – 50 V	–	Green	300 – 300 Hz	8573/14-302	243176	10	0.300
		3	20 – 25 V / 40 – 50 V	–	Green	400 – 400 Hz	8573/14-303	243177	10	0.300
		4	20 – 25 V / 40 – 50 V	–	Green	100 – 200 Hz	8573/14-304	243178	10	0.300
		11	20 – 25 V / 40 – 50 V	–	Green	401 – 500 Hz	8573/14-311	243179	10	0.300
Detailed number of poles		3 P								
Rated operational current		10 – 16 A								
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Rated operational voltage DC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-50 ... +40 °C	0	20 – 25 V	–	Violet	50 – 60 Hz	8573/14-300	243175	10	0.300
		12	40 – 50 V	–	Light grey	50 – 60 Hz	8573/14-312	243180	10	0.300

The current must be reduced to 12 A for frequencies > 100 Hz

For information on compatible plugs, see page 557

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC T6 Gb
Gas explosion protection EAC	1 Ex db e IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T70 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T70 °C Db
Dust explosion protection EAC	Ex tb IIIC T70 °C Db Ex tb IIIC T60 °C...T75 °C Db
Certificates	ATEX (PTB), EAC (CCVE), IECEx (PTB)

Ambient Conditions

Notes	16 A: -50 ... +40 °C 12 A: -50 ... +55 °C 10 A: -50 ... +60 °C Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.
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Mechanical Data

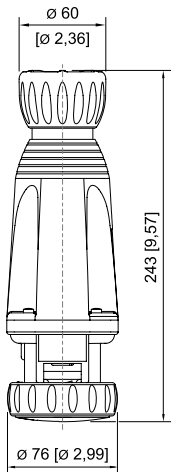
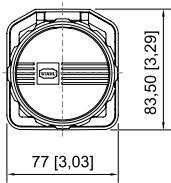
Degree of protection (IP)	IP66
Type of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	No
Connection terminals min.	0.75 mm ²
Connection terminals finely-stranded max.	1 x 4 mm ²

Components

Cable diameter	8 – 15 mm	
Cable diameter note	Ring 1 + 2 + 3 + 4:	8 ... 11 mm
	Ring 2 + 3 + 4:	11 ... 15 mm

Accessories found on page 580

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

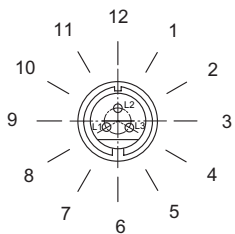


Coupler

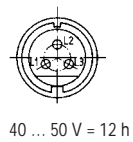
E3

Arrangement of the Earth Contact Sleeves

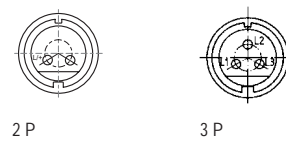
Example:
Clock hour position,
Front view of socket



Example:
Clock hour position



Marking of connections
Front view of socket





- Reliable load disconnect switch with clearly visible, lockable handle which also displays the switching position
- Optional auxiliary contacts for control and signalling purposes, pluggable
- With AC-3 motor switching capacity according to IEC/EN 60947-3

WebCode **8571A**



R. STAHL Series 8571/11 SolConeX sockets for Zone 1/21 in a 3-, 4- and 5-pole version have full AC-3 switching capacity up to 32 A. The high degree of protection IP66 guarantees the highest level of protection against the penetration of dust and/or water in any application position. Self-cleaning lamellar contacts provide optimum contact and the plugs can be inserted and removed in the zero position quickly and easily. The load disconnect switch, with mechanical locking device and a handle that can be locked in the 0 or I position, is an additional safety feature.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E3

Selection Table								
Detailed number of poles		4 P (3 P + PE)						
Rated operational current		0 – 25 A						
Auxiliary contacts available		No						
Figure	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	10	51 – 690 V	Green	100 – 300 Hz	8571/11-410	150906	10	2.200
Detailed number of poles		4 P (3 P + PE)						
Rated operational current		0 – 32 A						
Auxiliary contacts available		No						
Figure	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	5	600 – 690 V	Black	50 – 60 Hz	8571/11-405-S012	220134	10	2.200
		600 – 690 V	Black	50 – 60 Hz	8571/11-405	150902 ▲	10	2.200
	6	380 – 415 V	Red	50 – 60 Hz	8571/11-406-S012	214068	10	2.200
		380 – 415 V	Red	50 – 60 Hz	8571/11-406	150890 ▲	10	2.200
	7	480 – 500 V	Black	50 – 60 Hz	8571/11-407-S012	220133	10	2.200
		480 – 500 V	Black	50 – 60 Hz	8571/11-407	150894 ▲	10	2.200
	9	200 – 250 V	Blue	50 – 60 Hz	8571/11-409-S012	220132	10	2.200
		200 – 250 V	Blue	50 – 60 Hz	8571/11-409	150898 ▲	10	2.200
	11	440 – 460 V	Red	60 – 60 Hz	8571/11-411	150910 ▲	10	2.200

Selection Table

Detailed number of poles		4 P (3 P + PE)						
Rated operational current		0 – 32 A						
Auxiliary contacts available		Yes						
Figure	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	6	380 – 415 V	Red	50 – 60 Hz	8571/11-406-S001	220135	10	2.200
	7	480 – 500 V	Black	50 – 60 Hz	8571/11-407-S001	166610	10	2.200
Detailed number of poles		5 P (3 P + N + PE)						
Rated operational current		0 – 32 A						
Auxiliary contacts available		No						
Figure	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	3	220 – 380 V	Red	50 – 50 Hz	8571/11-503	217678	10	2.200
	4	57 – 100 V / 75 – 130 V	Yellow	50 – 60 Hz	8571/11-504	217679	10	2.200
	5	347 – 400 V / 600 – 690 V	Black	50 – 60 Hz	8571/11-505	150876▲	10	2.200
	6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8571/11-506	150854▲	10	2.200
		346 – 415 V	Red	50 – 60 Hz	8571/11-506-S012	214069	10	2.200
	7	277 – 288 V / 480 – 500 V	Black	50 – 60 Hz	8571/11-507	150863▲	10	2.200
	9	120 – 144 V / 208 – 250 V	Blue	50 – 60 Hz	8571/11-509	150870	10	2.200
	11	250 – 265 V / 250 – 440 V	Red	60 – 60 Hz	8571/11-511	150882	10	2.200

The current must be reduced to 25 A for frequencies > 100 Hz
Variants with temperature range of -50 ... +55 °C available on request

For information on compatible plugs, see page 566
For information on cable glands and other accessories, see Chapter E10, page 808

Technical Data

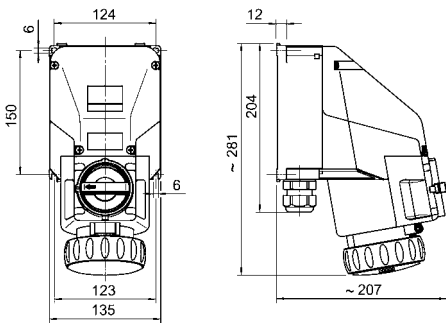
Variant	8571/11-...	8571/11-...-S001	8571/11-...-S012
Explosion Protection			
Ambient temperature °C	-30 ... +55 °C	-30 ... +55 °C	-30 ... +55 °C
Gas explosion protection IECEx	Ex db eb IIC T5 Gb	Ex db eb IIC T5 Gb	Ex db eb IIC T5 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC T5 Gb	Ⓔ II 2 G Ex db eb IIC T5 Gb	Ⓔ II 2 G Ex db eb IIC T5 Gb
Gas explosion protection EAC	2 Ex de IIC T6/T5 2 Ex de [ia] IIC T6/T5	2 Ex de IIC T6/T5 2 Ex de [ia] IIC T6/T5	2 Ex de IIC T6/T5 2 Ex de [ia] IIC T6/T5
Dust explosion protection IECEx	Ex tb IIIC T75 °C Db	Ex tb IIIC T75 °C Db	Ex tb IIIC T75 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T75 °C Db	Ⓔ II 2 D Ex tb IIIC T75 °C Db	Ⓔ II 2 D Ex tb IIIC T75 °C Db
Dust explosion protection EAC	Ex tD A21 IP 66 T60 °C, T75 °C	Ex tD A21 IP 66 T60 °C, T75 °C	Ex tD A21 IP 66 T60 °C, T75 °C
Certificates	ATEX (PTB), Brazil (ULB), EAC (STV), IECEX (PTB)	ATEX (PTB), Brazil (ULB), EAC (STV), IECEX (PTB)	ATEX (PTB), Brazil (ULB), EAC (STV), IECEX (PTB)
Ambient Conditions			
Notes	Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.		
Mechanical Data			
Degree of protection (IP)	IP66	IP66	IP66
Type of protection note	according to IEC/EN 60529	according to IEC/EN 60529	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced	Polyamide, Glass fibre reinforced	Polyamide, Glass fibre reinforced
Silicone-free	Yes	Yes	Yes
Connection terminals min.	2.5 mm ²	2.5 mm ²	2.5 mm ²

Technical Data			
Variant	8571/11-...	8571/11-...-S001	8571/11-...-S012
Mechanical Data			
Connection terminals solid max.	2 x 10 mm ²	2 x 10 mm ²	2 x 10 mm ²
Connection terminals finely-stranded max.	2 x 6 mm ²	2 x 6 mm ²	2 x 6 mm ²
Components			
Plate with threaded holes			With 2 x M32 x 1.5
Screw connections	1 x M32	1 x M25 1 x M32	Can be ordered as accessories
Cable diameter	9 – 21 mm	9 – 21 mm	
Cable diameter 2		7 – 17 mm	
Material of screw connections	Polyamide, black	Polyamide, black	
Stopping plug	1 x M32		1 x M32
Stopping plug material	Polyamide, black		Polyamide, black
Notes	Plate with threaded holes: made of brass, for metal cable glands Screw connections: positioning on the top or at the side, according to the order		

You can find more technical data online at r-stahl.com

Accessories found on page 580

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

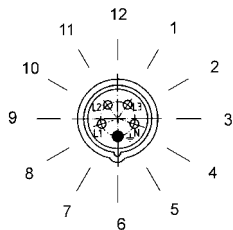


Wall-mounting socket

E3

Arrangement of the Earth Contact Sleeves

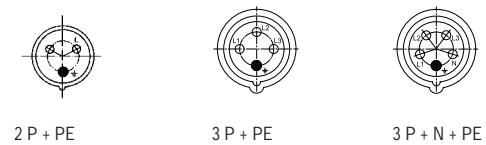
Example:
Clock hour position,
Front view of socket



Example:
Clock hour position



Marking of connections
Front view of socket





- Degree of protection IP66, suitable for Zones 1, 2, 21 and 22 worldwide, extreme temperature range of -50 ... +55 °C
- No impact of torsional forces from the cable on the seal
- Full compatibility between SolConeX and CES devices

WebCode **8571E**




R. STAHL Series 8571/12 SolConeX plugs for Zone 1/21 are 4- or 5-pole 32 A plugs. The floating pins allow them to be inserted and removed quickly and easily. The pivoting strain relief makes it easier to install the cable. Self-cleaning and corrosion-free plug pins made from high-quality materials ensure optimum electrical contact.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Detailed number of poles		4 P (3 P + PE)							
Rated operational current		0 – 25 A							
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-30 ... +55 °C	10	51 – 690 V	Green	100 – 300 Hz	8571/12-410	150907	10	0.500
Detailed number of poles		4 P (3 P + PE)							
Rated operational current		0 – 32 A							
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-30 ... +55 °C	5	600 – 690 V	Black	50 – 60 Hz	8571/12-405	150903 ▲	10	0.500
		6	380 – 415 V	Red	50 – 60 Hz	8571/12-406	150891 ▲	10	0.500
		7	480 – 500 V	Black	50 – 60 Hz	8571/12-407	150895 ▲	10	0.500
		9	200 – 250 V	Blue	50 – 60 Hz	8571/12-409	150899 ▲	10	0.500
		11	440 – 460 V	Red	60 – 60 Hz	8571/12-411	150911 ▲	10	0.500

Selection Table

Detailed number of poles		5 P (3 P + N + PE)							
Rated operational current		0 – 32 A							
Figure	Ambient temperature °C	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-30 ... +55 °C	3	0 – 220 V / 0 – 380 V	Red	50 – 50 Hz	8571/12-503	220033	10	0.600
		4	57 – 75 V / 100 – 130 V	Yellow	50 – 60 Hz	8571/12-504	220034	10	0.600
		5	347 – 400 V / 600 – 690 V	Black	50 – 60 Hz	8571/12-505	150877 ▲	10	0.600
		6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8571/12-506	150855 ▲	10	0.600
		7	277 – 288 V / 480 – 500 V	Black	50 – 60 Hz	8571/12-507	150864 ▲	10	0.600
		9	120 – 144 V / 208 – 250 V	Blue	50 – 60 Hz	8571/12-509	150871 ▲	10	0.600
		11	250 – 265 V / 440 – 460 V	Red	60 – 60 Hz	8571/12-511	150883 ▲	10	0.600

The current must be reduced to 25 A for frequencies > 100 Hz
Variants with a temperature range of -50 ... +55 °C are available on request

Technical Data

Explosion Protection

Ambient temperature °C	-30 ... +55 °C
Gas explosion protection IECEx	Ex db eb IIC T5 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC T5 Gb
Gas explosion protection EAC	2 Ex de IIC T6/T5 2 Ex de [ia] IIC T6/T5
Dust explosion protection IECEx	Ex tb IIIC T75 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T75 °C Db
Dust explosion protection EAC	Ex tD A21 IP 66 T60 °C, T75 °C
Ambient temperature °C 2	-30 ... +40 °C
Gas explosion protection IECEx 2	Ex db eb IIC T6 Gb
Gas explosion protection ATEX 2	Ⓔ II 2 G Ex db eb IIC T6 Gb
Dust explosion protection IECEx 2	Ex tb IIIC T60 °C Db
Dust Explosion Protection ATEX 2	Ⓔ II 2 D Ex tb IIIC T60 °C Db
Certificates	ATEX (PTB), Brazil (ULB), EAC (STV), IECEx (PTB)

Ambient Conditions

Notes	Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.
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Mechanical Data

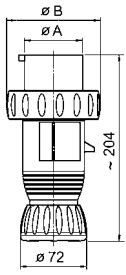
Degree of protection (IP)	IP66
Type of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	Yes
Connection terminals min.	2.5 mm ²
Connection terminals finely-stranded max.	2 x 10 mm ²

Components

Cable diameter	13 – 28 mm
Cable diameter note	Ring 1 + 2 + 3 + 4 + 5: 13 ... 16 mm Ring 2 + 3 + 4 + 5: 16 ... 19 mm Ring 3 + 4 + 5: 19 ... 22 mm Ring 4 + 5: 22 ... 25 mm Ring 5: 25 ... 28 mm

Accessories found on page 580

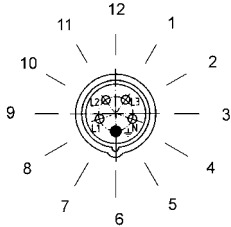
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



4 P (3 P + PE): A = 57 mm B = 99 mm
 5 P (3 P + N + PE): A = 63.4 mm B = 104 mm

Arrangement of the Earth Contact Sleeves

Example:
 Clock hour position,
 Front view of plug



Example:
 Clock hour position



230 V = 6 h

Marking of connections
 Front view of plug



2 P + PE



3 P + PE



3 P + N + PE



- Extreme temperature range of –45 ... +55 °C
- Reliable load disconnect switch with clearly visible, lockable handle which also displays the switching position
- Integrated auxiliary contact for control and signalling purposes
- With AC-3 motor switching capacity according to IEC/EN 60947-3

WebCode **8579A**



R. STAHL Series 8579/31 CES sockets for Zone 1/21 in a 4- and 5-pole version have full AC-3 switching capacity up to 63 A. The high degree of protection IP66 guarantees the highest level of protection against the penetration of dust and water in any application position. Self-cleaning lamellar contacts provide optimum contact and the plugs can be inserted and removed in the zero position quickly and easily. The load disconnect switch, with mechanical locking device and a handle that can be locked in the 0 or I position, is an additional safety feature.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E3

Selection Table								
Detailed number of poles			4 P (3 P + PE)					
Rated operational current			0 – 63 A					
Figure	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	5	600 – 690 V	Black	50 – 60 Hz	8579/31-405	201388	10	7.800
	6	380 – 415 V	Red	50 – 60 Hz	8579/31-406-S001	203494	10	7.800
		380 – 415 V	Red	50 – 60 Hz	8579/31-406-S002	203496▲	10	7.800
		380 – 415 V	Red	50 – 60 Hz	8579/31-406-S008	203498	10	7.800
		380 – 415 V	Red	50 – 60 Hz	8579/31-406-S009	203500	10	7.800
		380 – 415 V	Red	50 – 60 Hz	8579/31-406-S010	203487	10	7.800
		380 – 415 V	Red	50 – 60 Hz	8579/31-406-S011	203489	10	7.800
		380 – 415 V	Red	50 – 60 Hz	8579/31-406	201389▲	10	7.800
	7	480 – 500 V	Black	50 – 60 Hz	8579/31-407	201390▲	10	7.800
	9	200 – 250 V	Blue	50 – 60 Hz	8579/31-409	201391▲	10	7.800
11	440 – 460 V	Red	60 – 60 Hz	8579/31-411	202026▲	10	7.800	

Selection Table

Detailed number of poles Rated operational current		5 P (3 P + N + PE) 0 – 63 A						
Figure	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	5	347 – 400 V / 600 – 690 V	Black	50 – 60 Hz	8579/31-505	203490	10	7.800
	6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8579/31-506-S001	203493 ▲	10	7.800
		200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8579/31-506-S002	203495 ▲	10	7.800
		200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8579/31-506-S008	203497	10	7.800
		200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8579/31-506-S009	203499	10	7.800
		200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8579/31-506-S010	203501	10	7.800
		200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8579/31-506-S011	203488	10	7.800
		200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8579/31-506	201386 ▲	10	7.800
	7	277 – 288 V / 480 – 500 V	Black	50 – 60 Hz	8579/31-507	201387 ▲	10	7.800
	9	120 – 144 V / 208 – 250 V	Blue	50 – 60 Hz	8579/31-509	203511	10	7.800
11	250 – 265 V / 440 – 460 V	Red	60 – 60 Hz	8579/31-511	203512 ▲	10	7.800	

For information on compatible plugs, see page 572

For information on cable glands and other accessories, see Chapter E10, page 812

Technical Data

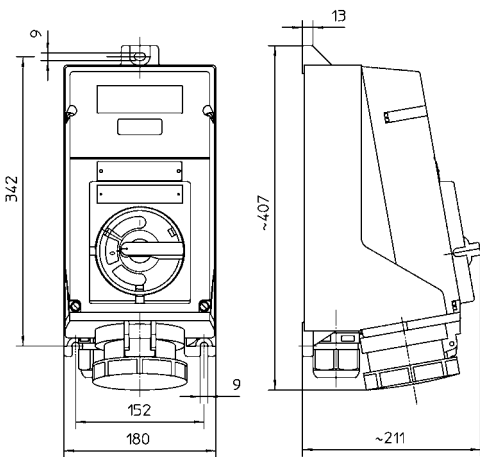
Variant	8579/31-...	8579/31-...-S001 8579/31-...-S010	8579/31-...-S002 8579/31-...-S011	8579/31-...-S008 8579/31-...-S009
Explosion Protection				
Ambient temperature °C	-30 ... +55 °C	-30 ... +55 °C	-30 ... +55 °C	-30 ... +55 °C
Gas explosion protection IECEx	Ex db eb IIC T5 Gb	Ex db eb IIC T5 Gb	Ex db eb IIC T5 Gb	Ex db eb IIC T5 Gb
Gas explosion protection ATEX	Ⓜ II 2 G Ex db eb IIC T5 Gb	Ⓜ II 2 G Ex db eb IIC T5 Gb	Ⓜ II 2 G Ex db eb IIC T5 Gb	Ⓜ II 2 G Ex db eb IIC T5 Gb
Gas explosion protection EAC	1 Ex d e IIC T6/T5 Gb 1 Ex d e [ib] IIC T6/T5 Gb	1 Ex d e IIC T6/T5 Gb 1 Ex d e [ib] IIC T6/T5 Gb	1 Ex d e IIC T6/T5 Gb 1 Ex d e [ib] IIC T6/T5 Gb	1 Ex d e IIC T6/T5 Gb 1 Ex d e [ib] IIC T6/T5 Gb
Dust explosion protection IECEx	Ex tb IIIC T75 °C Db	Ex tb IIIC T75 °C Db	Ex tb IIIC T75 °C Db	Ex tb IIIC T75 °C Db
Dust explosion protection ATEX	Ⓜ II 2 D Ex tb IIIC T75 °C Db	Ⓜ II 2 D Ex tb IIIC T75 °C Db	Ⓜ II 2 D Ex tb IIIC T75 °C Db	Ⓜ II 2 D Ex tb IIIC T75 °C Db
Dust explosion protection EAC	Ex tb IIIC T65 °C...T75 °C Db	Ex tb IIIC T65 °C...T75 °C Db	Ex tb IIIC T65 °C...T75 °C Db	Ex tb IIIC T65 °C...T75 °C Db
Ambient temperature °C 2	-30 ... +40 °C	-30 ... +40 °C	-30 ... +40 °C	-30 ... +40 °C
Gas explosion protection IECEx 2	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb
Gas explosion protection ATEX 2	Ⓜ II 2 G Ex db eb IIC T6 Gb	Ⓜ II 2 G Ex db eb IIC T6 Gb	Ⓜ II 2 G Ex db eb IIC T6 Gb	Ⓜ II 2 G Ex db eb IIC T6 Gb
Dust explosion protection IECEx 2	Ex tb IIIC T60 °C Db	Ex tb IIIC T60 °C Db	Ex tb IIIC T60 °C Db	Ex tb IIIC T60 °C Db
Dust Explosion Protection ATEX 2	Ⓜ II 2 D Ex tb IIIC T60 °C Db	Ⓜ II 2 D Ex tb IIIC T60 °C Db	Ⓜ II 2 D Ex tb IIIC T60 °C Db	Ⓜ II 2 D Ex tb IIIC T60 °C Db
Certificates	ATEX (PTB), Brazil (ULB), EAC (LPE), IECEx (PTB), Korea (KGS), Taiwan (ITRI)	ATEX (PTB), Brazil (ULB), EAC (LPE), IECEx (PTB), Korea (KGS), Taiwan (ITRI)	ATEX (PTB), Brazil (ULB), EAC (LPE), IECEx (PTB), Korea (KGS), Taiwan (ITRI)	ATEX (PTB), Brazil (ULB), EAC (LPE), IECEx (PTB), Korea (KGS), Taiwan (ITRI)
Electrical Data				
Auxiliary contacts available	Yes	Yes	Yes	Yes
Ambient Conditions				
Ambient temperature note	T6: 63 A -30 ... +40 °C T6: 50 A -30 ... +50 °C T5: 63 A -30 ... +55 °C	T6: 63 A -30 ... +40 °C T6: 50 A -30 ... +50 °C T5: 63 A -30 ... +55 °C	T6: 63 A -30 ... +40 °C T6: 50 A -30 ... +50 °C T5: 63 A -30 ... +55 °C	T6: 63 A -30 ... +40 °C T6: 50 A -30 ... +50 °C T5: 63 A -30 ... +55 °C
Mechanical Data				
Degree of protection (IP)	IP66	IP66	IP66	IP66
Type of protection note	according to IEC/EN 60529	according to IEC/EN 60529	according to IEC/EN 60529	according to IEC/EN 60529

Technical Data				
Variant	8579/31-...	8579/31-...-S001 8579/31-...-S010	8579/31-...-S002 8579/31-...-S011	8579/31-...-S008 8579/31-...-S009
Mechanical Data				
Enclosure material	Polyester, Glass fibre reinforced	Polyester, Glass fibre reinforced	Polyester, Glass fibre reinforced	Polyester, Glass fibre reinforced
Connection terminals min.	16 mm ²	16 mm ²	16 mm ²	16 mm ²
Connection terminals finely-stranded max.	2 x 50 mm ²	2 x 50 mm ²	2 x 50 mm ²	2 x 50 mm ²
Connection terminals stranded max.	2 x 50 mm ²	2 x 50 mm ²	2 x 50 mm ²	2 x 50 mm ²
Components				
Plate with threaded holes		With 1 x M42-M40	With 1 x M42-M50	With 1 x M40-M32
Screw connections	1 x M50	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Cable diameter	16 – 35 mm			
Material of screw connections	Polyamide, black			
Stopping plug	1 x M25	1 x M40	1 x M50	1 x M32
Stopping plug material	Polyamide, black	Polyamide, black	Polyamide, black	Polyamide, black
Notes	Plate with threaded holes: made of brass, for metal cable glands			

8579/31-...-S009, 8579/31-...-S010, 8579/31-...-S011: with outer earth connection

Accessories found on page 580

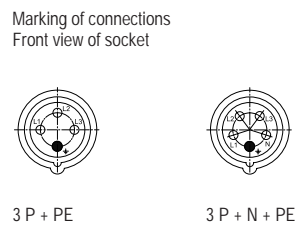
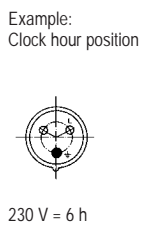
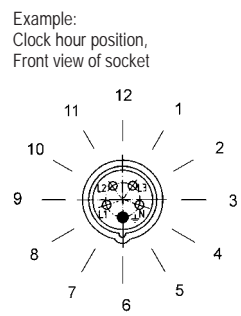
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Wall-mounting socket

E3

Arrangement of the Earth Contact Sleeves





- Degree of protection IP66, suitable for Zones 1, 2, 21 and 22 worldwide, extreme temperature range of -45 ... +55 °C
- No impact of torsional forces from the cable on the seal
- Strong mechanical protection against damage through high-quality, glass fibre-reinforced plastics

WebCode **8579E**



R. STAHL Series 8579/12 CES plugs for Zone 1/21 are 4- or 5-pole 63 A plugs. The floating pins allow them to be inserted and removed quickly and easily. The pivoting strain relief makes it easier to install the cable. Self-cleaning and corrosion-free plug pins made from high-quality materials ensure optimum electrical contact.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

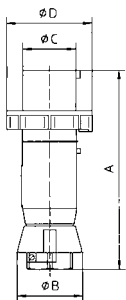
Detailed number of poles		4 P (3 P + PE)						
Rated operational current		0 – 63 A						
Figure	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	5	600 – 690 V	Black	50 – 60 Hz	8579/12-405	153023 ▲	10	0.880
	6	380 – 415 V	Red	50 – 60 Hz	8579/12-406	153029 ▲	10	0.880
	7	480 – 500 V	Black	50 – 60 Hz	8579/12-407	153037 ▲	10	0.880
	9	200 – 250 V	Blue	50 – 60 Hz	8579/12-409	153042 ▲	10	0.880
	11	440 – 460 V	Red	60 – 60 Hz	8579/12-411	203781 ▲	10	0.940
Detailed number of poles		5 P (3 P + N + PE)						
Rated operational current		0 – 63 A						
Figure	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	5	347 – 400 V / 600 – 690 V	Black	50 – 60 Hz	8579/12-505	203782	10	0.940
	6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8579/12-506	152971 ▲	10	0.940
	7	277 – 288 V / 480 – 500 V	Black	50 – 60 Hz	8579/12-507	152980 ▲	10	0.940
	9	120 – 144 V / 208 – 250 V	Blue	50 – 60 Hz	8579/12-509	203783	10	0.940
	11	250 – 265 V / 440 – 460 V	Red	60 – 60 Hz	8579/12-511	203784 ▲	10	0.940

Variants with temperature range of -45 °C available on request

Technical Data	
Explosion Protection	
Ambient temperature °C	-30 ... +55 °C
Gas explosion protection IECEx	Ex db eb IIC T5 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex db eb IIC T5 Gb
Gas explosion protection EAC	1 Ex d e IIC T6/T5 Gb 1 Ex d e [ib] IIC T6/T5 Gb
Dust explosion protection IECEx	Ex tb IIIC T75 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T75 °C Db
Dust explosion protection EAC	Ex tb IIIC T60 °C...T75 °C Db
Ambient temperature °C 2	-30 ... +40 °C
Gas explosion protection IECEx 2	Ex db eb IIC T6 Gb
Gas explosion protection ATEX 2	⊕ II 2 G Ex db eb IIC T6 Gb
Dust explosion protection IECEx 2	Ex tb IIIC T60 °C Db
Dust Explosion Protection ATEX 2	⊕ II 2 D Ex tb IIIC T60 °C Db
Certificates	ATEX (PTB), Brazil (ULB), EAC (LPE), IECEx (PTB), Korea (KGS), Taiwan (ITRI)
Ambient Conditions	
Notes	T6: 63 A -45 ... +40 °C T6: 50 A -45 ... +50 °C T5: 63 A -45 ... +55 °C Silicone is used as a sealing material for variants with an ambient temperature of -45 °C.
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	according to IEC/EN 60529
Enclosure material	Polyamide
Silicone-free	Yes
Connection terminals min.	2.5 mm ²
Connection terminals finely-stranded max.	16 mm ²
Components	
Cable diameter	24 – 36 mm
Cable diameter note	Ring 1 + 2 + 3: 24 ... 27 mm Ring 2 + 3: 27 ... 30 mm Ring 3: 30 ... 33 mm without inner ring: 33 ... 36 mm
Accessories found on page 580	

E3

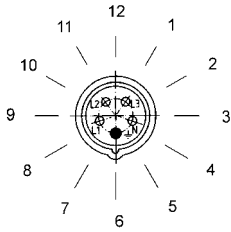
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = 260 mm B = 84 mm C = 69.5 D = 112 mm

Arrangement of the Earth Contact Sleeves

Example:
Clock hour position,
Front view of plug



Example:
Clock hour position



230 V = 6 h

Marking of connections
Front view of plug



3 P + PE



3 P + N + PE



- Extreme temperature range of $-45 \dots +55 \text{ }^\circ\text{C}$
- Reliable load disconnect switch with clearly visible, lockable handle which also displays the switching position
- Integrated auxiliary contact for control and signalling purposes
- With AC-3 motor switching capacity according to IEC/EN 60947-3

WebCode **8581A**



R. STAHL Series 8581/31 CES sockets for Zone 1/21 in a 4- and 5-pole version have full AC-3 switching capacity up to 125 A. The high degree of protection IP66 guarantees the highest level of protection against the penetration of dust and water in any application position. Self-cleaning lamellar contacts provide optimum contact and the plugs can be inserted and removed in the zero position quickly and easily. The load disconnect switch, with mechanical locking device and a handle that can be locked in the 0 or I position, is an additional safety feature.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E3

Selection Table								
Detailed number of poles			4 P (3 P + PE)					
Rated operational current			110 – 125 A					
Figure	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	5	600 – 690 V	Black	50 – 60 Hz	8581/31-405-S011	220120 ▲	10	21.400
	6	380 – 415 V	Red	50 – 60 Hz	8581/31-406-S011	220117	10	21.400
		380 – 415 V	Red	50 – 60 Hz	8581/31-406	206787 ▲	10	21.400
	7	480 – 500 V	Black	50 – 60 Hz	8581/31-407-S011	220119	10	21.400
		480 – 500 V	Black	50 – 60 Hz	8581/31-407	206788 ▲	10	21.400
	9	200 – 250 V	Blue	50 – 60 Hz	8581/31-409-S011	220118	10	21.400
200 – 250 V		Blue	50 – 60 Hz	8581/31-409	206789 ▲	10	21.400	
Detailed number of poles			5 P (3 P + N + PE)					
Rated operational current			110 – 125 A					
Figure	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	6	346 – 415 V	Red	50 – 60 Hz	8581/31-506	206784 ▲	10	21.400
	7	480 – 500 V	Black	50 – 60 Hz	8581/31-507	206786	10	21.400

Variants with a temperature range of $-45 \dots +55 \text{ }^\circ\text{C}$ are available on request.

For information on compatible plugs, see page 578

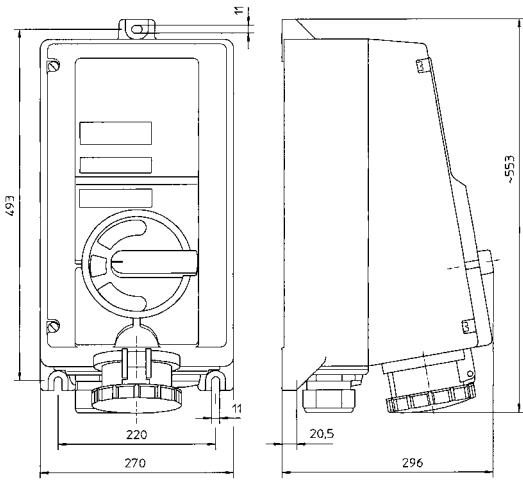
For information on cable glands and other accessories, see Chapter E10, page 808

Technical Data

Variant	8581/31-...	8581/31-...-S011
Explosion Protection		
Ambient temperature °C	-30 ... +55 °C	-30 ... +45 °C
Gas explosion protection IECEx	Ex db eb IIC T5 Gb	Ex db eb IIC T5 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex db eb IIC T5 Gb	⊕ II 2 G Ex db eb IIC T5 Gb
Gas explosion protection EAC	1 Ex d e IIC T6/T5 Gb 1 Ex d e [ib] IIC T6/T5 Gb	1 Ex d e IIC T6/T5 Gb 1 Ex d e [ib] IIC T6/T5 Gb
Dust explosion protection IECEx	Ex tb IIIC T95 °C Db	Ex tb IIIC T95 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T95 °C Db	⊕ II 2 D Ex tb IIIC T95 °C Db
Dust explosion protection EAC	Ex tb IIIC T65 °C...T85 °C Db	Ex tb IIIC T65 °C...T85 °C Db
Ambient temperature °C 2	-30 ... +40 °C	-30 ... +40 °C
Gas explosion protection IECEx 2	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb
Gas explosion protection ATEX 2	⊕ II 2 G Ex db eb IIC T6 Gb	⊕ II 2 G Ex db eb IIC T6 Gb
Dust explosion protection IECEx 2	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
Dust Explosion Protection ATEX 2	⊕ II 2 D Ex tb IIIC T80 °C Db	⊕ II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), Brazil (ULB), EAC (LPE), IECEx (PTB), Korea (KGS)	ATEX (PTB), Brazil (ULB), EAC (LPE), IECEx (PTB), Korea (KGS)
Electrical Data		
Auxiliary contacts available	Yes	Yes
Mechanical Data		
Degree of protection (IP)	IP66	IP66
Type of protection note	according to IEC/EN 60529	according to IEC/EN 60529
Enclosure material	Polyester, Glass fibre reinforced	Polyester, Glass fibre reinforced
Silicone-free	No	No
Connection terminals min.	35 mm ²	35 mm ²
Connection terminals finely-stranded max.	2 x 150 mm ²	2 x 150 mm ²
Connection terminals stranded max.	2 x 150 mm ²	2 x 150 mm ²
Components		
Plate with threaded holes		With 2 x M63-M50
Screw connections	1 x M63	Can be ordered as accessories
Cable diameter	28 – 48 mm	
Material of screw connections	Polyamide, black	
Stopping plug	1 x M25	1 x M50
Stopping plug material	Polyamide, black	Polyamide, black
Notes	Plate with threaded holes: made of brass, for metal cable glands	

Accessories found on page 580

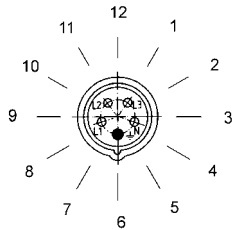
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Wall-mounting socket

Arrangement of the Earth Contact Sleeves

Example:
Clock hour position,
Front view of socket



Example:
Clock hour position



Marking of connections
Front view of socket



E3



- Degree of protection IP66, suitable for Zones 1, 2, 21 and 22 worldwide, extreme temperature range of -45 ... +55 °C
- No impact of torsional forces from the cable on the seal
- Strong mechanical protection against damage through high-quality, glass fibre-reinforced plastics

WebCode **8581E**



R. STAHL Series 8581/12 CES plugs for Zone 1/21 are 4- or 5-pole 125 A plugs. The floating pins allow them to be inserted and removed quickly and easily. The pivoting strain relief makes it easier to install the cable. Self-cleaning and corrosion-free plug pins made from high-quality materials ensure optimum electrical contact.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Detailed number of poles		4 P (3 P + PE)							
Rated operational current		110 – 125 A							
Figure	Ambient temperature	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-30 °C ... +45 °C	6	380 – 415 V	Red	50 – 60 Hz	8581/12-406	153514 ▲	10	1.280
	-30 °C ... +40 °C	7	480 – 500 V	Black	50 – 60 Hz	8581/12-407	153521 ▲	10	1.280
		9	200 – 250 V	Blue	50 – 60 Hz	8581/12-409	153527 ▲	10	1.280
Detailed number of poles		5 P (3 P + N + PE)							
Rated operational current		110 – 125 A							
Figure	Ambient temperature	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	-30 °C ... +45 °C	6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8581/12-506	153470 ▲	10	1.380
	-30 °C ... +40 °C	7	277 – 288 V / 480 – 500 V	Black	50 – 60 Hz	8581/12-507	153476	10	1.380

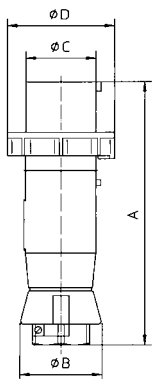
Variants with temperature range of -45 °C available on request

Technical Data

Explosion Protection	
Ambient temperature °C	-30 ... +45 °C
Gas explosion protection IECEx	Ex db eb IIC T5 Gb
Gas explosion protection ATEX	Ex II 2 G Ex db eb IIC T5 Gb
Dust explosion protection IECEx	Ex tb IIIC T95 °C Db
Dust explosion protection ATEX	Ex II 2 D Ex tb IIIC T95 °C Db
Ambient temperature °C 2	-30 ... +40 °C

Technical Data	
Explosion Protection	
Gas explosion protection IECEx 2	Ex db eb IIC T6 Gb
Gas explosion protection ATEX 2	Ⓔ II 2 G Ex db eb IIC T6 Gb
Dust explosion protection IECEx 2	Ex tb IIIC T80 °C Db
Dust Explosion Protection ATEX 2	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), Brazil (ULB), EAC (LPE), IECEx (PTB), Korea (KGS)
Ambient Conditions	
Notes	T6: -30 ... +40 °C T5: -30 ... +45 °C Silicone is used as a sealing material for variants with an ambient temperature of -45 °C.
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	Yes
Connection terminals min.	35 mm ²
Components	
Cable diameter	30 – 49 mm
Cable diameter note	Ring 1 + 2 + 3 + 4: 30 ... 35 mm Ring 2 + 3 + 4: 35 ... 40 mm Ring 3 + 4: 40 ... 45 mm Ring 4: 45 ... 49 mm

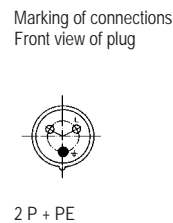
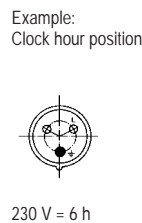
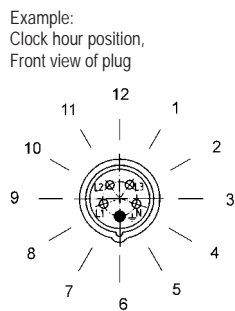
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = 310.5 mm B = 96 mm C = 82 mm D = 125 mm

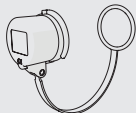
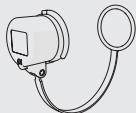
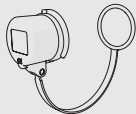
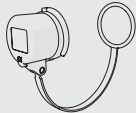
E3

Arrangement of the Earth Contact Sleeves



Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Auxiliary contact (retrofitable) for Series 8570/11, 8571/11			
	1 NC max. 500 V AC, max. 110 V DC max. 6 A 2 x 0.5 ... 2.5 mm ² solid / finely stranded	150680	0.125
	1 NC, gold contact max. 500 V AC, max. 110 V DC max. 6 A 2 x 0.5 ... 2.5 mm ² solid / finely stranded	150684	0.125
	1 NO max. 500 V AC, max. 110 V DC max. 6 A 2 x 0.5 ... 2.5 mm ² solid / finely stranded	150682	0.125
	1 NO, gold contact max. 500 V AC, max. 110 V DC max. 6 A 2 x 0.5 ... 2.5 mm ² solid / finely stranded	150686	0.125
Auxiliary contact (retrofitable) for Series 8579, 8581			
	2 NC contacts (8080/1-3) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm ² solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: synchronising	168356	0.026
	1 NC contact + 1 NO contact (8080/1-1) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm ² solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left: delayed (ON), leading (OFF) Right: synchronising	168351	0.026
	2 NO contacts (8080/1-4) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm ² solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: synchronising	168353	0.026
Dust cover for wall mounting sockets 16 A Series 8570/11			
	retrofitable dust protection for 2-/3-pole sockets	253118	0.006
	retrofitable dust protection for 4-pole sockets	255003	0.008
	retrofitable dust protection for 5-pole sockets	255004	0.008
Dust cover for wall mounting sockets 32 A Series 8571/11			
	retrofitable dust protection for 4-pole sockets	255005	0.009
	retrofitable dust protection for 5-pole sockets	253117	0.009
Dust cover for wall mounting sockets, compact Series 8572/13			
	retrofitable dust protection for 3-pole sockets	257438	0.010
Dust cover for wall mounting sockets, compact, extra low voltage Series 8573/13			
	retrofitable dust protection for 2-/3-pole sockets	257439	0.010

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Protective cap for plugs 16 A			
	3 pole	150496 ▲	0.043
	4 pole	150510 ▲	0.049
	5 pole	150520 ▲	0.056
Protective cap for plugs 32 A			
	4 pole	150856 ▲	0.070
	5 pole	150865 ▲	0.077
Protective cap for plugs 63 A			
	4-/5-poles	153261 ▲	0.100
Protective cap for plugs 125 A			
	4-/5-poles	153730	0.120



- Coupler sockets, 16 A, various voltage ranges acc. to EN 60309
- Easy to transport in stainless steel carrying frame with large carrying handle, free-standing set-up on feet
- For use in Zones 1, 2, 21 and 22

WebCode **8570B**



R. STAHL Series 8570/16 Zone 1 coupler sockets with switch socket are used to connect portable and fixed electrical equipment as well as cables and circuits in hazardous areas. Application range in Zone 1, 21 with full AC-3 switching capacity up to 16 A. With their stainless steel carrying frame with large carrying handle, they are easy to transport and can be positioned on the feet flexibly and securely.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E3

Selection Table							
Detailed number of poles		3 P (2 P + PE)					
Rated operational current		0 – 16 A					
Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
4	100 – 130 V	Yellow	50 – 60 Hz	8570/16-304	150660	10	2.100
6	200 – 250 V	Blue	50 – 60 Hz	8570/16-306	150662	10	2.100
Detailed number of poles		4 P (3 P + PE)					
Rated operational current		0 – 16 A					
Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
5	600 – 690 V	Black	50 – 60 Hz	8570/16-405	150667	10	2.350
6	380 – 415 V	Red	50 – 60 Hz	8570/16-406	150664	10	2.350
7	480 – 500 V	Black	50 – 60 Hz	8570/16-407	150665	10	2.350
Detailed number of poles		5 P (3 P + N + PE)					
Rated operational current		0 – 16 A					
Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
5	347 – 400 V / 600 – 690 V	Black	50 – 60 Hz	8570/16-505	150673	10	2.450
6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8570/16-506	150669	10	2.450
7	277 – 288 V / 480 – 500 V	Black	50 – 60 Hz	8570/16-507	150671	10	2.450

Technical Data

Explosion Protection

Ambient temperature °C	-30 ... +55 °C
Gas explosion protection IECEx	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), Brazil (ULB), EAC (STV), IECEx (PTB)

Mechanical Data

Degree of protection (IP)	IP66
Enclosure material	Polyamide
Material mounting frame	Stainless steel

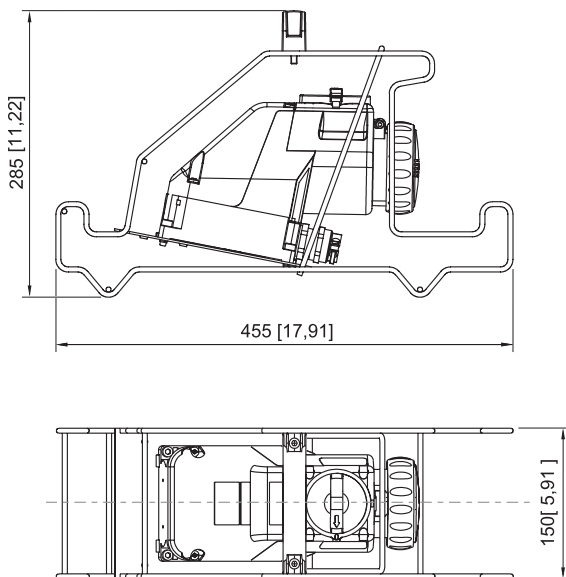
Components

Screw connections	1 x M25
Cable diameter	13 – 18 mm
Material of screw connections	Polyamide, black
Stopping plug	1 x M25
Stopping plug material	Polyamide, black

Further technical data see Wall-mounting Sockets 16 A Series 8570/11 page 540

Cable glands and other accessories see Chapter E10, page 812

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Coupler socket

E3



- Coupler sockets, 32 A, various voltage ranges acc. to EN 60309
- Safe transport in stainless steel carrying frame with large carrying handle, free-standing set-up on feet
- For use in Zones 1, 2, 21 and 22

WebCode **8571F**



R. STAHL Series 8571/16 Zone 1 coupler sockets with switch socket are used to connect portable and fixed electrical equipment as well as cables and circuits in hazardous areas. Application range in Zone 1, 21 with full AC-3 switching capacity up to 32 A. With their stainless steel carrying frame with large carrying handle, they are easy to transport and can be positioned on the feet flexibly and securely.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Detailed number of poles		4 P (3 P + PE)					
Rated operational current		0 – 32 A					
Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
5	600 – 690 V	Black	50 – 60 Hz	8571/16-405	150955	10	3.100
6	380 – 415 V	Red	50 – 60 Hz	8571/16-406	150952	10	3.100
7	480 – 500 V	Black	50 – 60 Hz	8571/16-407	150953	10	3.100
9	200 – 250 V	Blue	50 – 60 Hz	8571/16-409	220138	10	3.100
Detailed number of poles		5 P (3 P + N + PE)					
Rated operational current		0 – 32 A					
Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
5	347 – 400 V / 600 – 690 V	Black	50 – 60 Hz	8571/16-505	150961	10	3.350
6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8571/16-506	150957	10	3.350
7	277 – 288 V / 480 – 500 V	Black	50 – 60 Hz	8571/16-507	150959	10	3.350

Technical Data

Explosion Protection	
Ambient temperature °C	-30 ... +55 °C
Gas explosion protection IECEx	Ex db eb IIC T5 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex db eb IIC T5 Gb
Dust explosion protection IECEx	Ex tb IIIC T75 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T75 °C Db

Technical Data

Explosion Protection

Ambient temperature °C 2	-30 ... +40 °C
Gas explosion protection IECEx 2	Ex db eb IIC T6 Gb
Gas explosion protection ATEX 2	Ⓔ II 2 G Ex db eb IIC T6 Gb
Dust explosion protection IECEx 2	Ex tb IIIC T60 °C Db
Dust Explosion Protection ATEX 2	Ⓔ II 2 D Ex tb IIIC T60 °C Db

Certificates ATEX (PTB), Brazil (ULB), EAC (STV), IECEx (PTB)

Mechanical Data

Degree of protection (IP)	IP66
Enclosure material	Polyamide
Material mounting frame	Stainless steel

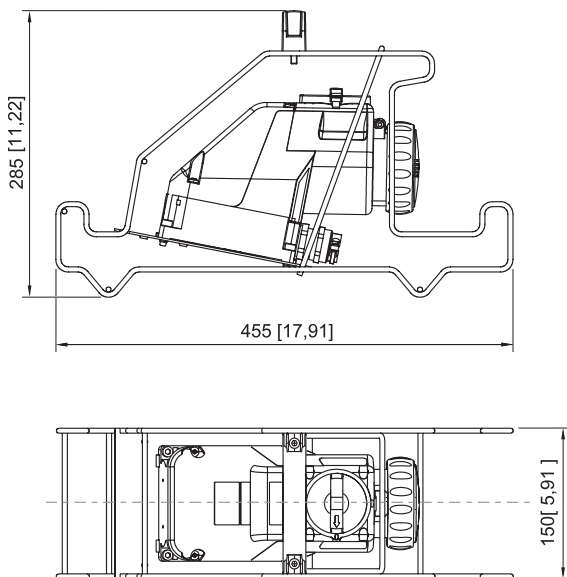
Components

Screw connections	1 x M32
Cable diameter	18 – 25 mm
Material of screw connections	Polyamide, black
Stopping plug	1 x M32
Stopping plug material	Polyamide, black

Further technical data see Wall-mounting Sockets 32 A Series 8571/11 page 563

Cable glands and other accessories see Chapter E10, page 808

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Coupler socket



- Multiple options for easy use, simple installation and maintenance
- Safe and fast disconnection under load
- 4/4+1-pole, up to 10 A, high transfer rate (100 MBit/s) ideal for fieldbus installations
- Suitable for harsh industry environments, IP66/IP68, for Zones 1, 2, 21 and 22

WebCode **8591A**



R. STAHL Series 8591/1 and 8591/4 4-pole, explosion-protected miniCLIX plug connectors disconnect non-intrinsically safe circuits up to 250 V/10 A and are used as a hot swap plug connection for signal and data cables. They are available in various versions and materials: Device plugs, flange sockets, plugs/couplers made of polyamide, nickel-plated brass or stainless steel. The cable can be connected using a crimp or spring clamp terminal. Preinstalled cables for device plugs and flange sockets enable fast and safe installation in the end devices.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E3

Selection Table										
Product Description miniCLIX plug connector Coupling										
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Clamping range	Art. No.	PS	Weight kg
	Nickel-plated brass	2 P + PE	230 – 250 V	–	6	1.5 mm ² crimp	4 ... 7.5 mm	154025▲	53	0.145
		4 P	–	24 – 24 V	8	1.5 mm ² crimp	4 ... 7.5 mm	169180▲	53	0.010
		4 P + PE	230 – 250 V	–	10	1.5 mm ² crimp	4 ... 7.5 mm	153995▲	53	0.152
	Plastic	2 P + PE	230 – 250 V	–	6	1.5 mm ² crimp	4 ... 7.5 mm	169177▲	53	0.083
		4 P	–	24 – 24 V	8	1.5 mm ² crimp	4 ... 7.5 mm	169178▲	53	0.081
		4 P + PE	230 – 250 V	–	10	1.5 mm ² crimp	4 ... 7.5 mm	153998	53	0.083
	Stainless steel	4 P	–	24 – 24 V	8	1.5 mm ² crimp	4 ... 7.5 mm	169179	53	0.888
		4 P + PE	–	24 – 24 V	5	1.5 mm ² crimp	4 ... 7.5 mm	169200	53	0.145
Product Description miniCLIX plug connector Device plug < 2 dm ³										
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Clamping range	Art. No.	PS	Weight kg
	Nickel-plated brass	2 P + PE	230 – 250 V	–	6	1.5 mm ² conductor 30 cm	–	154050▲	53	0.162
		4 P	–	24 – 24 V	8	1.5 mm ² conductor 30 cm	–	154054▲	53	0.170
		4 P + PE	230 – 250 V	–	10	1.5 mm ² conductor 30 cm	–	154019▲	53	0.193

Selection Table										
Product Description miniCLIX plug connector Device plug < 2 dm³										
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Clamping range	Art. No.	PS	Weight kg
	Plastic	2 P + PE	230 – 250 V	–	6	1.5 mm² crimp	–	154048 ▲	53	0.162
		4 P	–	24 – 24 V	8	1.5 mm² crimp	–	154052 ▲	53	0.170
		4 P + PE	230 – 250 V	–	10	1.5 mm² crimp	–	154022 ▲	53	0.193
	Stainless steel	4 P	–	24 – 24 V	8	1.5 mm² conductor 30 cm	–	169196	53	0.010
Product Description miniCLIX plug connector Flange socket										
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Clamping range	Art. No.	PS	Weight kg
	Nickel-plated brass	2 P + PE	230 – 250 V	–	6	1.5 mm² conductor 30 cm	–	154042 ▲	53	0.148
		4 P	–	24 – 24 V	8	1.5 mm² conductor 30 cm	–	154046 ▲	53	0.156
		4 P + PE	230 – 250 V	–	10	1.5 mm² conductor 30 cm	–	154013 ▲	53	0.174
	Plastic	2 P + PE	230 – 250 V	–	6	1.5 mm² crimp	–	154040 ▲	53	0.064
		4 P	–	24 – 24 V	8	1.5 mm² crimp	–	154044 ▲	53	0.065
		4 P + PE	230 – 250 V	–	10	1.5 mm² crimp	–	154016 ▲	53	0.067
	Stainless steel	4 P	–	24 – 24 V	8	1.5 mm² conductor 30 cm	–	169193	53	0.100
Product Description miniCLIX plug connector Plug										
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Clamping range	Art. No.	PS	Weight kg
	Nickel-plated brass	2 P + PE	230 – 250 V	–	6	1.5 mm² crimp	4 ... 7.5 mm	154034 ▲	53	0.168
		4 P	–	24 – 24 V	8	1.5 mm² crimp	4 ... 7.5 mm	169188 ▲	53	0.168
		4 P + PE	230 – 250 V	–	10	1.5 mm² crimp	4 ... 7.5 mm	154004 ▲	53	0.162
	Plastic	2 P + PE	230 – 250 V	–	6	1.5 mm² crimp	4 ... 7.5 mm	169185 ▲	53	0.200
		4 P	–	24 – 24 V	8	1.5 mm² crimp	4 ... 7.5 mm	169186 ▲	53	0.083
		4 P + PE	230 – 250 V	–	10	1.5 mm² crimp	4 ... 7.5 mm	154007 ▲	53	0.082
	Stainless steel	4 P	–	24 – 24 V	8	1.5 mm² crimp	4 ... 7.5 mm	169187	53	0.002

Device plugs and flange sockets in metal versions are pre-configured using a 30 cm conductor.

Technical Data

Explosion Protection

Gas explosion protection IECEx Ex db eb IIC T6 Gb

Gas explosion protection ATEX II 2 G Ex db eb IIC T6 Gb

Dust explosion protection ATEX II 2 D Ex tb IIIC T60 °C Db

Certificates ATEX (PTB), IECEx (BKI)

Ambient Conditions

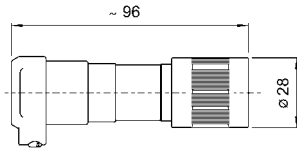
Ambient temperature -55 °C ... +40 °C

Technical Data

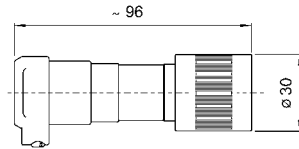
Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	IP68 (2 m water column, 1 hour) according to IEC/EN 60529 (with protective caps closed and secured as well as properly fitted and secured components)

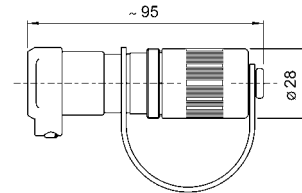
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



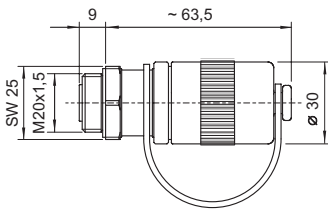
Plug (metal)



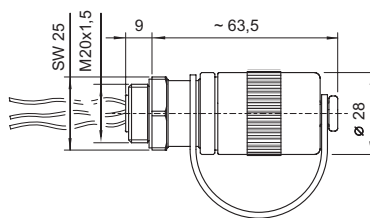
Plug (plastic)



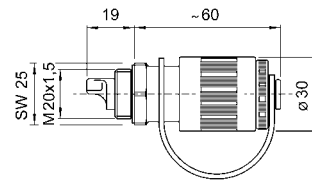
Coupler (metal)



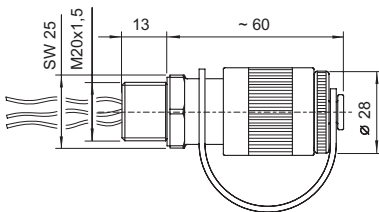
Flange socket (plastic)



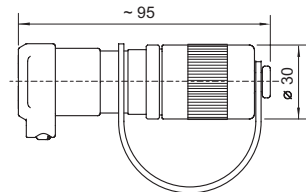
Flange socket (metal)



Device plug (plastic)



Device plug for Ex d enclosures with volume < 2 dm³
(metal)



Coupler (plastic)

Device plugs and flange sockets in metal versions are pre-configured using a 30 cm conductor.



- Simple installation and maintenance in Zone 1, safe and fast disconnection under load
- 6+1-pole, rated voltage up to 400 V AC, rated current up to 16 A
- Suitable for harsh industry environments, IP66/IP68, for Zones 1, 2, 21 and 22

WebCode **8591B**



R. STAHL Series 8591/2 7-pole, explosion-protected miniCLIX plug connectors disconnect non-intrinsically safe circuits up to 400 V/16 A and are used as a hot swap plug connection for signal and data cables. They are available in various versions and materials: Device plugs, flange sockets, plugs/couplers made of polyamide, nickel-plated brass or stainless steel. The cable can be connected using a crimp or spring clamp terminal. Preinstalled cables for device plugs and flange sockets enable fast and safe installation in the end devices.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E3

Selection Table										
Product Description miniCLIX plug connector Coupling										
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Clamping range	Art. No.	PS	Weight kg
	Nickel-plated brass	6 P + PE	230 – 250 V	–	6	1.5 mm ² crimp	7 ... 11 mm	210731▲	53	0.100
		6 P + PE	400 – 400 V	–	10	1.5 mm ² crimp	7 ... 11 mm	210733▲	53	0.100
		7 P	–	24 – 24 V	8	1.5 mm ² crimp	7 ... 11 mm	210732▲	53	0.100
	Plastic	6 P + PE	230 – 250 V	–	6	1.5 mm ² crimp	7 ... 11 mm	210726▲	53	0.127
		6 P + PE	400 – 400 V	–	10	1.5 mm ² crimp	7 ... 11 mm	210728▲	53	0.100
		7 P	–	24 – 24 V	8	1.5 mm ² crimp	7 ... 11 mm	210727▲	53	0.100
	Stainless steel	7 P	–	24 – 24 V	8	1.5 mm ² crimp	7 ... 11 mm	210729	53	0.100
Product Description miniCLIX plug connector Device plug < 2 dm ³										
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Clamping range	Art. No.	PS	Weight kg
	Nickel-plated brass	6 P + PE	230 – 250 V	–	6	1.5 mm ² crimp	–	210758	53	0.100
		6 P + PE	400 – 400 V	–	10	1.5 mm ² crimp	–	210759▲	53	0.100
		7 P	–	24 – 24 V	8	1.5 mm ² crimp	–	210760▲	53	0.100
	Plastic	6 P + PE	230 – 250 V	–	6	1.5 mm ² crimp	–	210755▲	53	0.100
		6 P + PE	400 – 400 V	–	10	1.5 mm ² crimp	–	210756▲	53	0.100
		7 P	–	24 – 24 V	8	1.5 mm ² crimp	–	210757▲	53	0.100

Selection Table

Product Description		miniCLIX plug connector Flange socket								
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Clamping range	Art. No.	PS	Weight kg
	Nickel-plated brass	6 P + PE	230 – 250 V	–	6	1.5 mm ² crimp	–	210749 ▲	53	0.100
		6 P + PE	400 – 400 V	–	10	1.5 mm ² crimp	–	210750 ▲	53	0.100
	Plastic	6 P + PE	230 – 250 V	–	6	1.5 mm ² crimp	–	210746 ▲	53	0.100
		6 P + PE	400 – 400 V	–	10	1.5 mm ² crimp	–	210747 ▲	53	0.100
		7 P	–	24 – 24 V	8	1.5 mm ² crimp	–	210748 ▲	53	0.100

Product Description		miniCLIX plug connector Plug								
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Clamping range	Art. No.	PS	Weight kg
	Nickel-plated brass	6 P + PE	230 – 250 V	–	6	1.5 mm ² crimp	7 ... 11 mm	210741 ▲	53	0.100
		6 P + PE	400 – 400 V	–	10	1.5 mm ² crimp	7 ... 11 mm	210743 ▲	53	0.100
		7 P	–	24 – 24 V	8	1.5 mm ² crimp	7 ... 11 mm	210742 ▲	53	0.100
	Plastic	6 P + PE	230 – 250 V	–	6	1.5 mm ² crimp	7 ... 11 mm	210736 ▲	53	0.100
		6 P + PE	400 – 400 V	–	10	1.5 mm ² crimp	7 ... 11 mm	210738 ▲	53	0.100
		7 P	–	24 – 24 V	8	1.5 mm ² crimp	7 ... 11 mm	210737 ▲	53	0.100

Device plugs and flange sockets in metal versions are pre-configured using a 30 cm conductor.

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	II 2 G Ex db eb IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T60 °C Db

Certificates ATEX (PTB), IECEx (BKI)

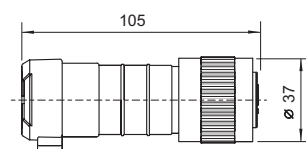
Ambient Conditions

Ambient temperature -55 °C ... +40 °C

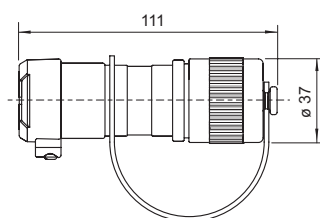
Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	IP68 (2 m water column, 1 hour) according to IEC/EN 60529 (with protective caps closed and secured as well as properly fitted and secured components)

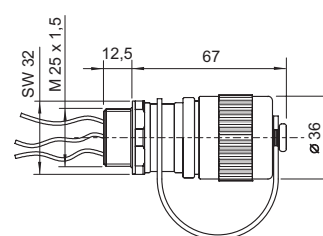
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



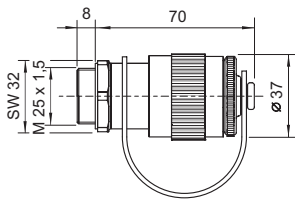
Plug (plastic, metal)



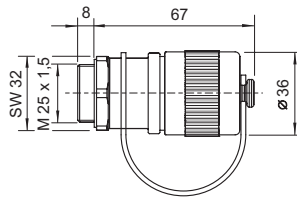
Coupler (plastic, metal)



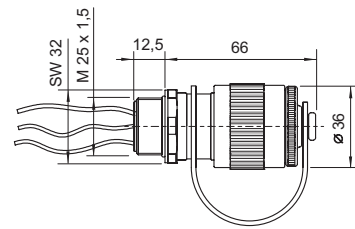
Flange socket (metal)



Flange socket (plastic)



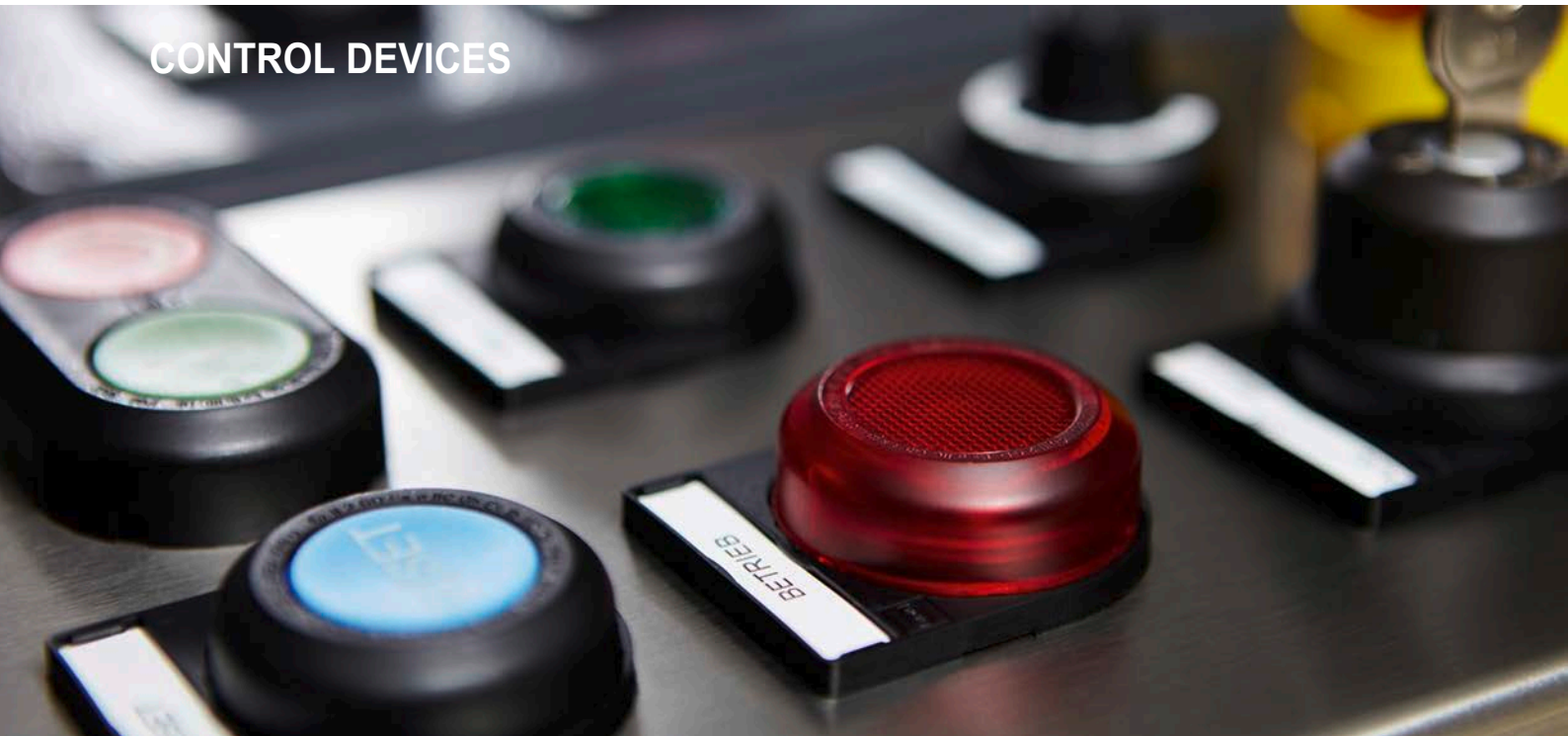
Flange socket (plastic)



Device plug for Ex d enclosure with volume < 2 dm³ (metal)

Device plugs and flange sockets in metal versions are pre-configured using a 30 cm conductor.

CONTROL DEVICES



Product	Installation in Zone						Series	Page	WebCode
	0	1	2	20	21	22			
Control and Distribution Boxes									
Control and Distribution Boxes made of Stainless Steel		•	•		•	•	8150	641	8150B
Control Stations made of Polyester Resin		•	•		•	•	8146	635	8146F
Control Devices for Panel Mounting									
Control Buttons / Switches for Panel Mounting Plug-in Connection with Connection Line		•	•		•	•	8003	616	8003D
Control Buttons / Switches for Panel Mounting Spring Clamp Terminals with Connection Chamber		•	•		•	•	8003	611	8003A
Control Buttons / Switches for Panel Mounting Spring Clamp Terminals without Connection Chamber		•	•		•	•	8003	614	8003C
LED Illuminated Pushbutton for Panel Mounting		•	•		•	•	8018	624	8018A
LED Indicating Lamps for Panel Mounting with Connection Chamber		•	•		•	•	8013	620	8013A
LED Indicating Lamps for Panel Mounting without Connection Chamber		•	•		•	•	8013	622	8013B
Control Equipment for Surface Mounting									
Control Device System		•	•		•	•	8040	629	8040B
Motion Sensor									
Motion Sensor		•	•		•	•	8265	646	8265E
Position Switch									
Metal Position Switch		•	•		•	•	8074	593	8074D
Position Switch		•	•		•	•	8060	599	8060B
Position Switch		•	•		•	•	8070	605	8070C
Accessories and Spare Parts									
Accessories and Spare Parts Series 8003, 8013, 8018								626	

For additional products and information please refer to r-stahl.com



- Operating temperature range: -40 °C to +70 °C
- Large inner connection chamber
- High-quality metal Ex e enclosure with outer PE connection
- Degree of protection IP66/67
- Five different contact versions
- Ten different actuator versions

WebCode **8074D**



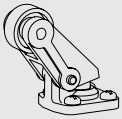
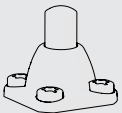
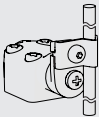
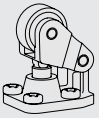
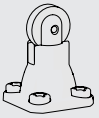
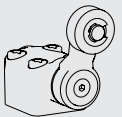
Metal position switch; switch dimensions meet the requirements of DIN EN 50041. It is designed to detect the position of moving components. Certified versions fulfil the requirements for safety switches as set out in EN 13849-1 and have positive-opening contacts in accordance with EN 60947-5-1.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

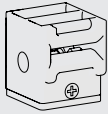
Selection Table								
Actuator Rated operational current		Adjustable rotary lever 4.4 A						
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	No	8074/2-1-DS-40	257189	17	0.386
		Slow-action contact, Overlapping	500 V	No	8074/2-5-DS-40	257218	17	0.386
	2 NCs	Slow-action contact	400 V	No	8074/2-3-DS-40	257209	17	0.386
Actuator Rated operational current		Long rotary lever 4.4 A						
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8074/2-1-DL-40	257188	17	0.422
		Slow-action contact, Overlapping	500 V	Yes	8074/2-5-DL-40	257217	17	0.422
	2 NCs	Slow-action contact	400 V	Yes	8074/2-3-DL-40	257208	17	0.422
Actuator Rated operational current		Misalignment switch 4.4 A						
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	No	8074/2-1-SR-40	257201	17	0.486

E4

Selection Table

Actuator		Parallel roller lever 4.4 A						
Rated operational current								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8074/2-1-WPH-40	257186	17	0.307
		Slow-action contact, Overlapping	500 V	Yes	8074/2-5-WPH-40	257215	17	0.307
	2 NCs	Slow-action contact	400 V	Yes	8074/2-3-WPH-40	257206	17	0.307
Actuator		Plunger 4.4 A						
Rated operational current								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8074/2-1-W-40	257197	17	0.298
		Slow-action contact, Overlapping	500 V	Yes	8074/2-5-W-40	257212	17	0.298
	2 NCs	Slow-action contact	400 V	Yes	8074/2-3-W-40	257203	17	0.298
Actuator		Rod lever 4.4 A						
Rated operational current								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	No	8074/2-1-DD-40	257190	17	0.340
		Slow-action contact, Overlapping	500 V	No	8074/2-5-DD-40	257219	17	0.340
	2 NCs	Slow-action contact	400 V	No	8074/2-3-DD-40	257210	17	0.340
Actuator		Roller lever 4.4 A						
Rated operational current								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8074/2-1-WH-40	257185	17	0.300
		Slow-action contact, Overlapping	500 V	Yes	8074/2-5-WH-40	257214	17	0.300
	2 NCs	Slow-action contact	400 V	Yes	8074/2-3-WH-40	257205	17	0.300
Actuator		Roller plunger 4.4 A						
Rated operational current								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8074/2-1-R-40	257184	17	0.299
		Slow-action contact, Overlapping	500 V	Yes	8074/2-5-R-40	257213	17	0.299
	2 NCs	Slow-action contact	400 V	Yes	8074/2-3-R-40	257204	17	0.299
Actuator		Rotary lever 4.4 A						
Rated operational current								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8074/2-1-D-40	257187	17	0.360
		Slow-action contact, Overlapping	500 V	Yes	8074/2-5-D-40	257216	17	0.360
	2 NCs	Slow-action contact	400 V	Yes	8074/2-3-D-40	257207	17	0.360

Selection Table

Actuator		Safety switch						
Rated operational current		0.25 A						
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	0 V	Yes	8074/2-1-AZ-20	257202	17	0.340
	2 NCs	Slow-action contact	250 V	No	8074/2-3-AZ-20	257211	17	0.340

The actuators enclosed are not mounted.

Safety switch, separate actuator made of metal (please order separately; see spare parts and accessories)

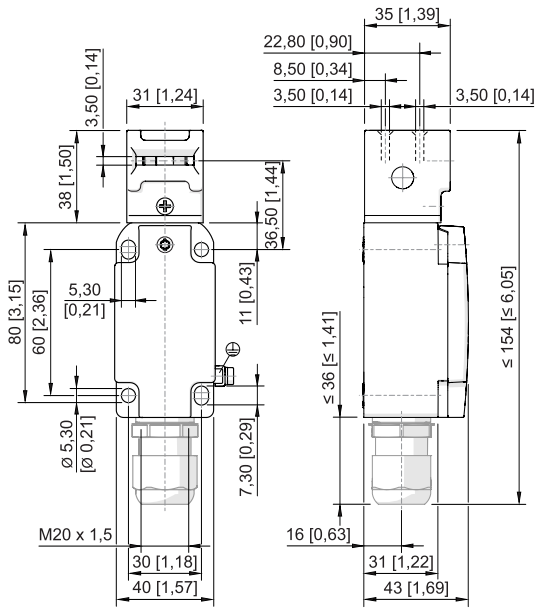
Actuators without positive opening are not suitable for safety circuits!

Technical Data

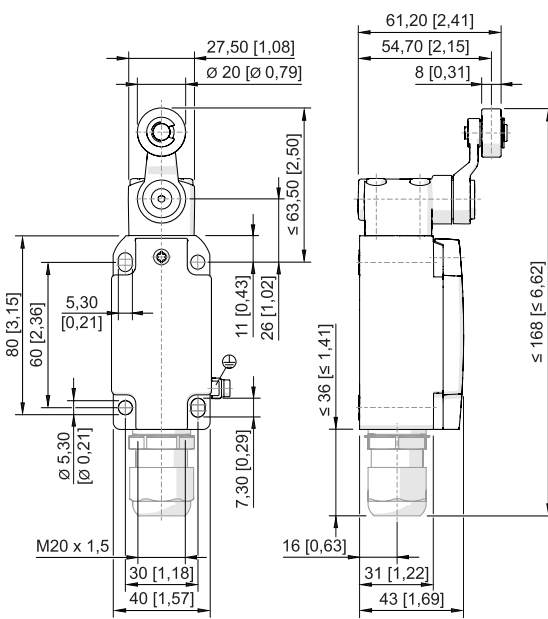
Variant	8074/2-...-	8074/2-1-AZ-20
Explosion Protection		
Gas explosion protection IECEx	Ex de IIC T6 Gb	Ex de IIC T6 Gb
Gas explosion protection ATEX	Ⓜ II 2 G Ex de IIC T6 Gb	Ⓜ II 2 G Ex de IIC T6 Gb
Gas explosion protection EAC	1 Ex db e IIC T6 Gb	1 Ex db e IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ⓜ II 2 D Ex tb IIIC T80 °C Db	Ⓜ II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
Certificates	ATEX (BVS), EAC (CCVE), IECEx (BVS)	ATEX (BVS), EAC (CCVE), IECEx (BVS)
Electrical Data		
Rated operational voltage DC	125 V	230 V
Rated operational voltage (unequal potential)	250 V	0 V
Electrical service life	Max. 10 ⁶ operating cycles	Max. 10 ⁶ operating cycles
Mechanical service life	Max. 10 ⁶ operating cycles	Max. 10 ⁶ operating cycles
Rated surge voltage	4 kV	4 kV
Short-circuit protection max.	10 A	10 A
Maximum operating frequency	1800 operating cycles/h	1800 operating cycles/h
Ambient Conditions		
Ambient temperature	-40 °C ... +70 °C	-20 °C ... +40 °C ... +60 °C
Ambient temperature note		depends on the temperature class
Mechanical Data		
Degree of protection (IP)	IP66	IP66
Degree of protection IP (IEC 60529)	IP66	IP66
Type of protection (IEC 60529) note	-40 °C	-20 °C
Enclosure material	Corrosion resistant aluminium, powder-coated, 1.4401 stainless steel, blasted	Corrosion resistant aluminium, powder-coated, 1.4401 stainless steel, blasted
Contact material	Silver-nickel	Silver-nickel
Connection cross-section finely stranded	0.75 – 2.5 mm ²	0.75 – 1.5 mm ²
Connection cross-section solid	0.75 – 2.5 mm ²	0.75 – 1.5 mm ²
Contact system	2-pole, galvanically separated with double break	2-pole, galvanically separated with double break
Contact opening	≥ 1.5 mm (isolating distance ≥ 3 mm)	≥ 1.5 mm (isolating distance ≥ 3 mm)
Components		
Screw connections	1 x M20 Ø 4 – 13 mm	1 x M20 Ø 4 – 13 mm
Material of screw connections	Black plastic	Black plastic

Accessories and spare parts on the Internet r-stahl.com

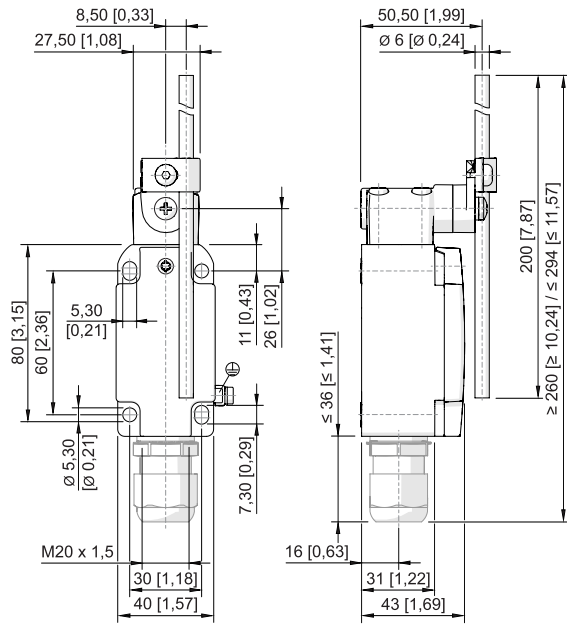
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



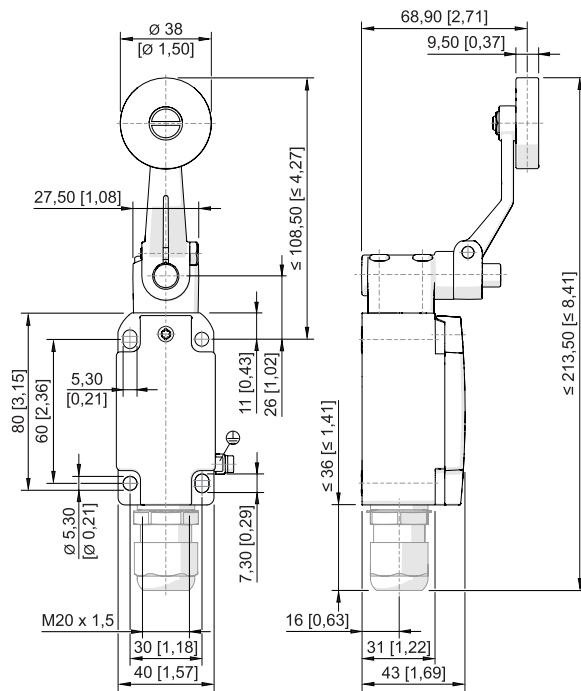
Safety switch 8074/2--AZ-20



Swivelling lever 8074/2--D-40

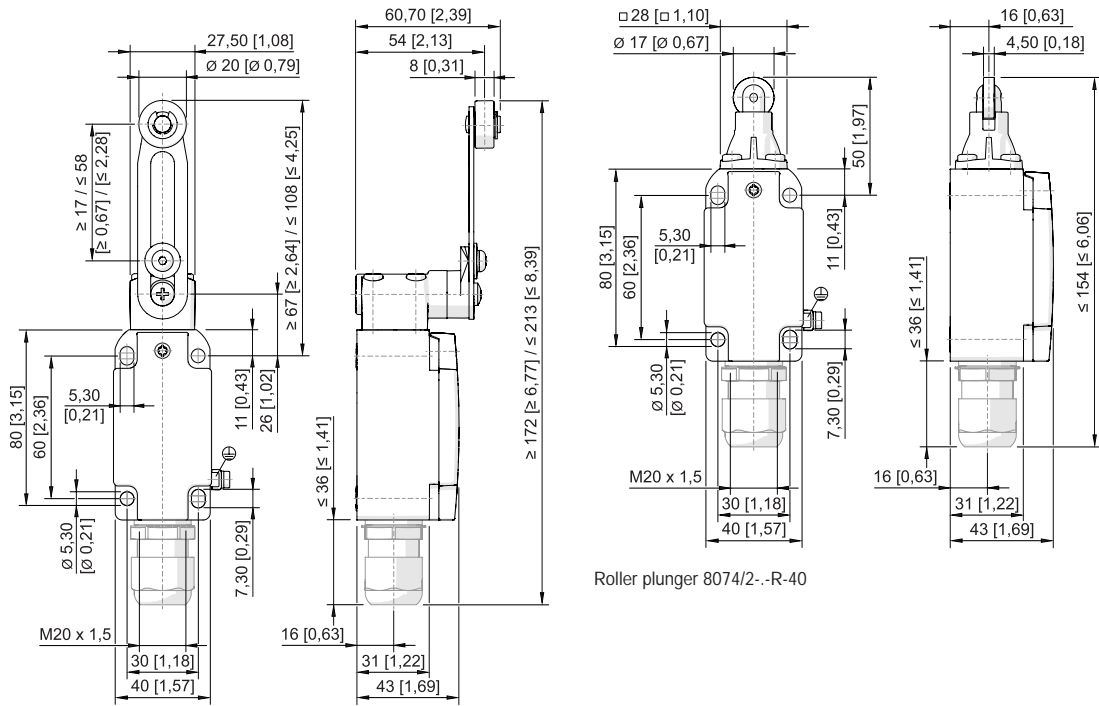


Roller lever 8074/2--DD-40



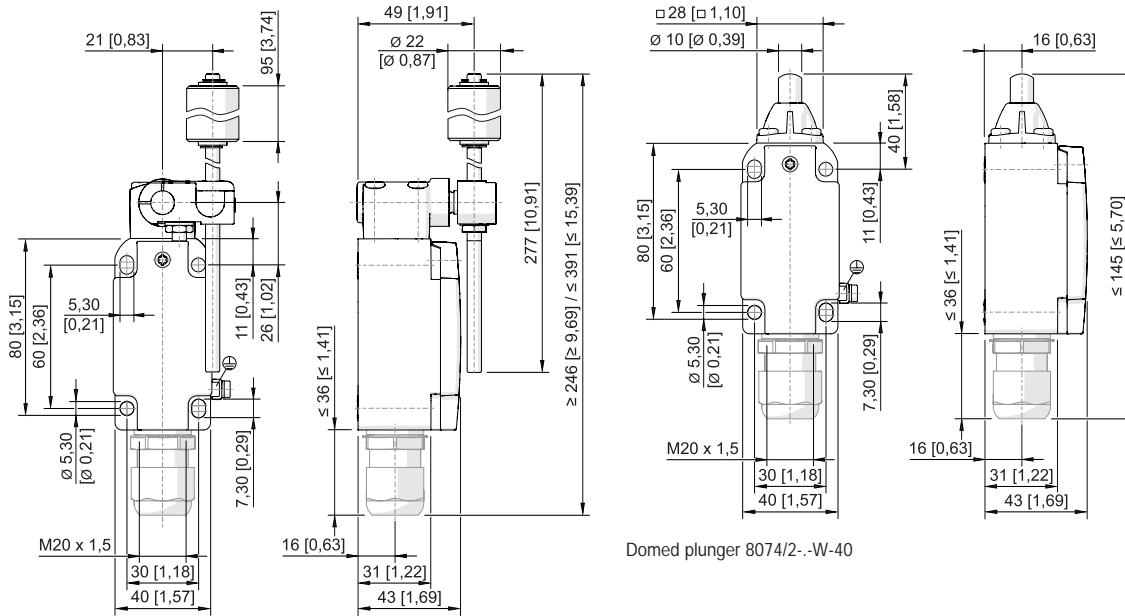
Swivelling lever 8074/2--DL-40

E4



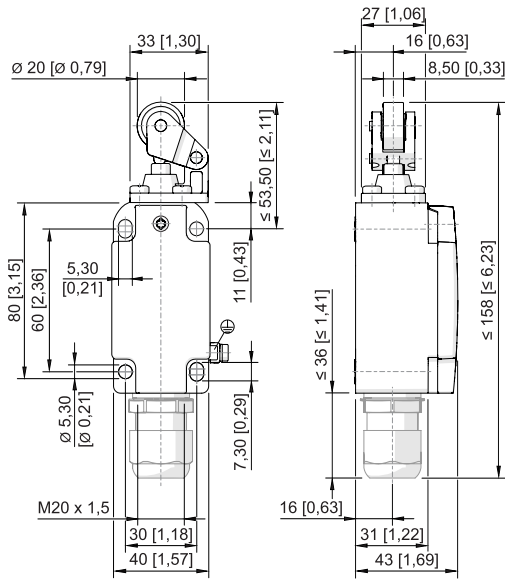
Roller plunger 8074/2.-R-40

Swivelling lever 8074/2.-DS-40

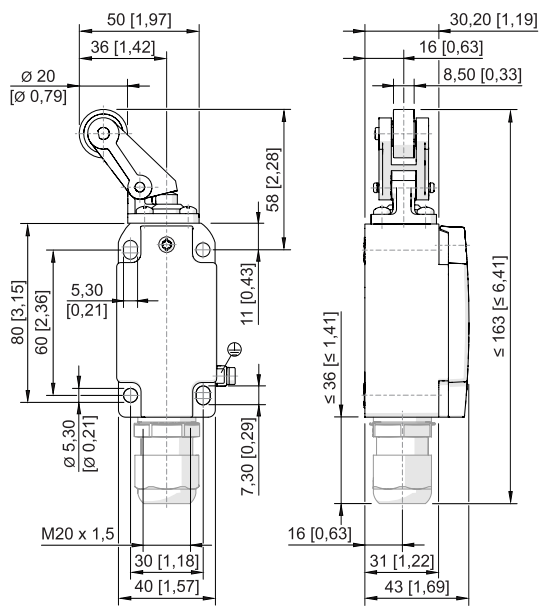


Domed plunger 8074/2.-W-40

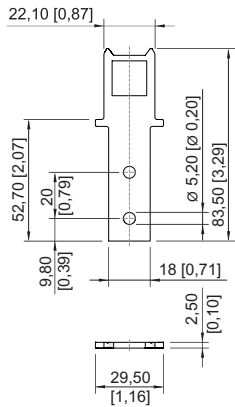
Belt-alignment switch 8074/2.-SR-40



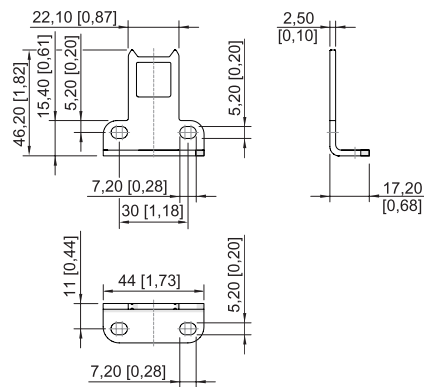
Roller lever 8074/2--WH-40



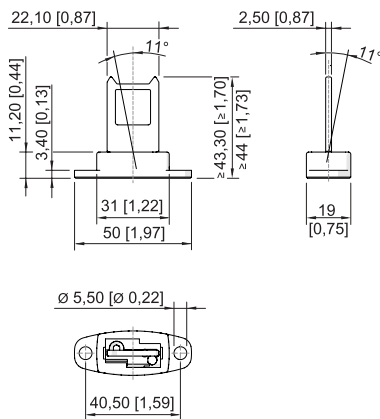
Roller lever 8074/2--WPH-40



Straight actuator for safety switch



Angled actuator for safety switch



Adjustable actuator for safety switch



- Operating temperature range: -60 °C to +60 °C
- Plastic Ex e enclosure
- Degree of protection IP66/67
- Five different contact versions
- 10 different actuator versions

WebCode **8060B**



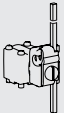

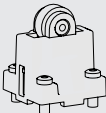



Plastic position switch; switch dimensions meet the requirements of DIN EN 50047. It is designed to detect the position of moving components. Certified versions fulfil the requirements for safety switches as set out in EN 13849-1 and have positive-opening contacts in accordance with EN 60947-5-1.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table								
Actuator Adjustable rotary lever								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	No	8060/2-1-DS-60	254890	11	0.130
		Slow-action contact, Overlapping	500 V	No	8060/2-5-DS-60	254896	11	0.130
		Snap-action contact	500 V	No	8060/2-2-DS-60	254899	11	0.130
	2 NCs	Slow-action contact	400 V	No	8060/2-3-DS-60	254893	11	0.130
Actuator Parallel roller lever								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8060/2-1-WPH-60	254885	11	0.102
		Slow-action contact, Overlapping	500 V	Yes	8060/2-5-WPH-60	254887	11	0.102
		Snap-action contact	500 V	Yes	8060/2-2-WPH-60	254888	11	0.102
	2 NCs	Slow-action contact	400 V	Yes	8060/2-3-WPH-60	254886	11	0.102
Actuator Plunger								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8060/2-1-W-60	254793	11	0.096
		Slow-action contact, Overlapping	500 V	Yes	8060/2-5-W-60	254797	11	0.096
		Snap-action contact	500 V	Yes	8060/2-2-W-60	254799	11	0.096
	2 NCs	Slow-action contact	400 V	Yes	8060/2-3-W-60	254795	11	0.096

E4

Selection Table

Actuator		Rod lever						
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	No	8060/2-1-DD-60	254891	11	0.133
		Slow-action contact, Overlapping	500 V	No	8060/2-5-DD-60	254897	11	0.133
		Snap-action contact	500 V	No	8060/2-2-DD-60	254900	11	0.133
	2 NCs	Slow-action contact	400 V	No	8060/2-3-DD-60	254894	11	0.133
Actuator		Roller lever						
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8060/2-1-WH-60	254881	11	0.101
		Slow-action contact, Overlapping	500 V	Yes	8060/2-5-WH-60	254883	11	0.101
		Snap-action contact	500 V	Yes	8060/2-2-WH-60	254884	11	0.101
	2 NCs	Slow-action contact	400 V	Yes	8060/2-3-WH-60	254882	11	0.101
Actuator		Roller plunger						
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8060/2-1-R-60	254794	11	0.100
		Slow-action contact, Overlapping	500 V	Yes	8060/2-5-R-60	254798	11	0.100
		Snap-action contact	500 V	Yes	8060/2-2-R-60	254800	11	0.100
	2 NCs	Slow-action contact	400 V	Yes	8060/2-3-R-60	254796	11	0.100
Actuator		Rotary lever						
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8060/2-1-D-60	254889	11	0.115
		Slow-action contact, Overlapping	500 V	Yes	8060/2-5-D-60	254895	11	0.115
		Snap-action contact	500 V	Yes	8060/2-2-D-60	254898	11	0.115
	2 NCs	Slow-action contact	400 V	Yes	8060/2-3-D-60	254892	11	0.115
Actuator		Safety switch						
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8060/2-1-AZ-60	254902	11	0.127
	2 NCs	Slow-action contact	400 V	Yes	8060/2-3-AZ-60	257239	11	0.127
Actuator		Spring rod head						
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Snap-action contact	500 V	No	8060/2-2-TK-60	254901	11	0.122

The actuators enclosed are not mounted.

Safety switch, separate actuator made of metal (please order separately; see spare parts and accessories)

Actuators without positive opening are not suitable for safety circuits!

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC T6 Gb
Gas explosion protection EAC	1 Ex db e IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tb IIIC T80 °C Db
Certificates	ATEX (BVS), Canada / USA (CSA), EAC (CCVE), IECEx (BVS), India (PESO)

Electrical Data

Rated operational voltage DC	250 V
Rated operational voltage (unequal potential)	250 V
Rated operational current	2 A
Rated operational current note	at 2 A: -60 °C < Ta < +60 °C (at 4 A: -60 °C < Ta < +55 °C)
Electrical service life	Max. 10 ⁶ operating cycles
Mechanical service life	Max. 10 ⁶ operating cycles
Rated surge voltage	6 kV
Short-circuit protection max.	6 A
Maximum operating frequency	1800 operating cycles/h

Ambient Conditions

Ambient temperature	-60 °C ... +55 °C -20 °C ... +60 °C (IP67 (EN 60529))
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Mechanical Data

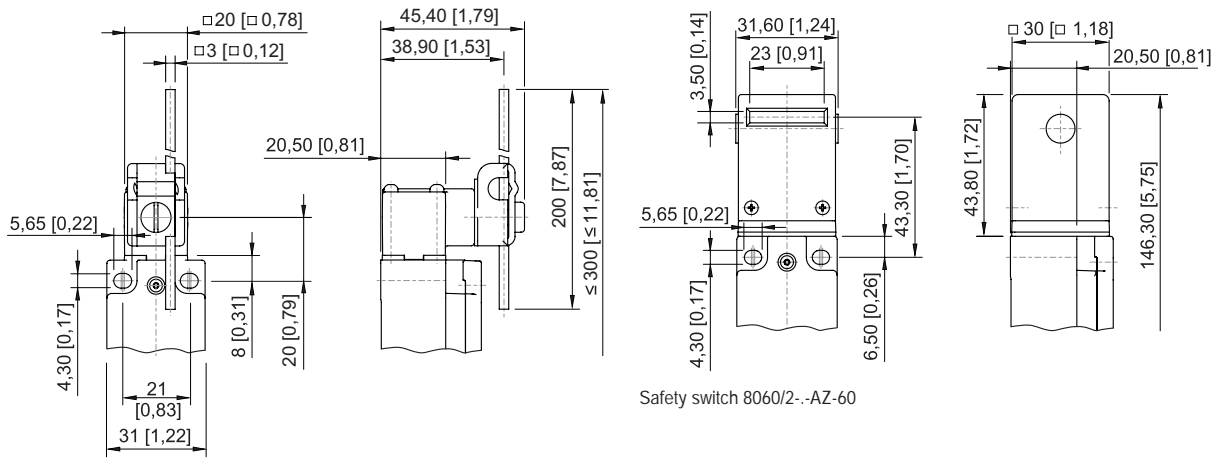
Degree of protection (IP)	IP66
Enclosure material	Thermoplast GF, impact resistant
Cover material	Duroplast GF, impact resistant
Contact material	Silver-nickel
Connection cross-section finely stranded	0.75 – 1.5 mm ²
Connection cross-section solid	0.75 – 1.5 mm ²
Contact system	2-pole, galvanically separated with double break
Contact opening	≥ 1.5 mm (isolating distance ≥ 3 mm)
Seal	Silicone

Components

Screw connections	1 x M20 Ø 7 – 13 mm
Material of screw connections	Black plastic

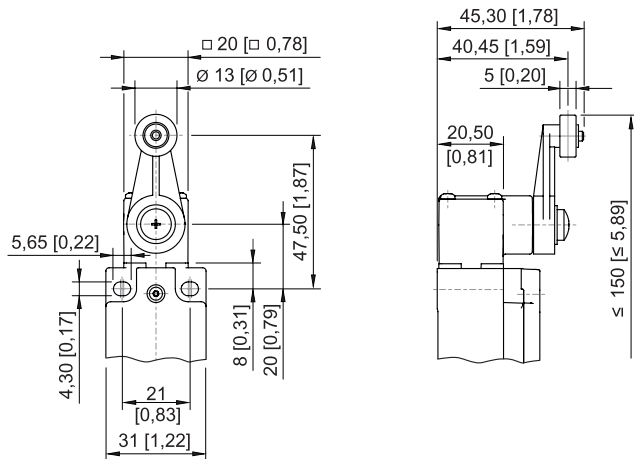
Accessories and spare parts on the Internet r-stahl.com

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

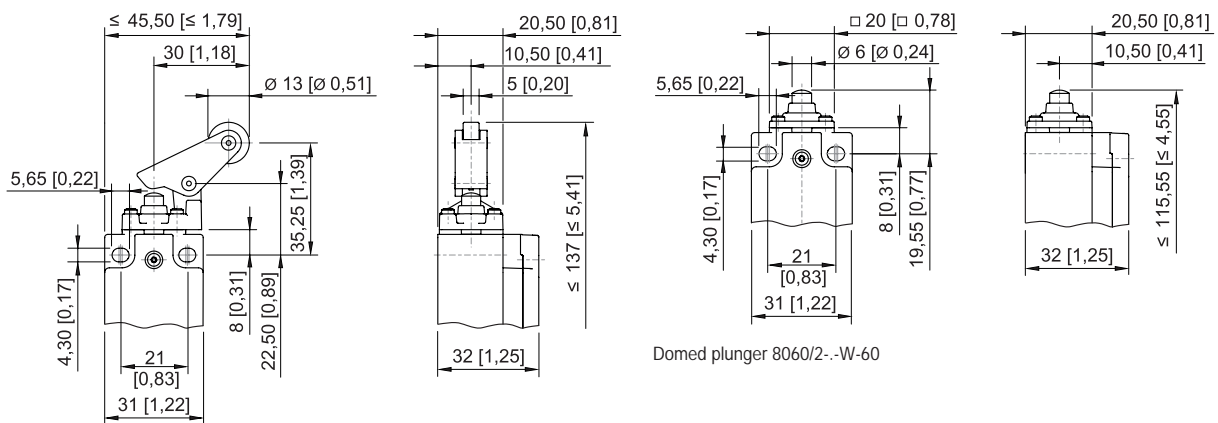


Rod lever 8060/2--DD-60

Safety switch 8060/2--AZ-60



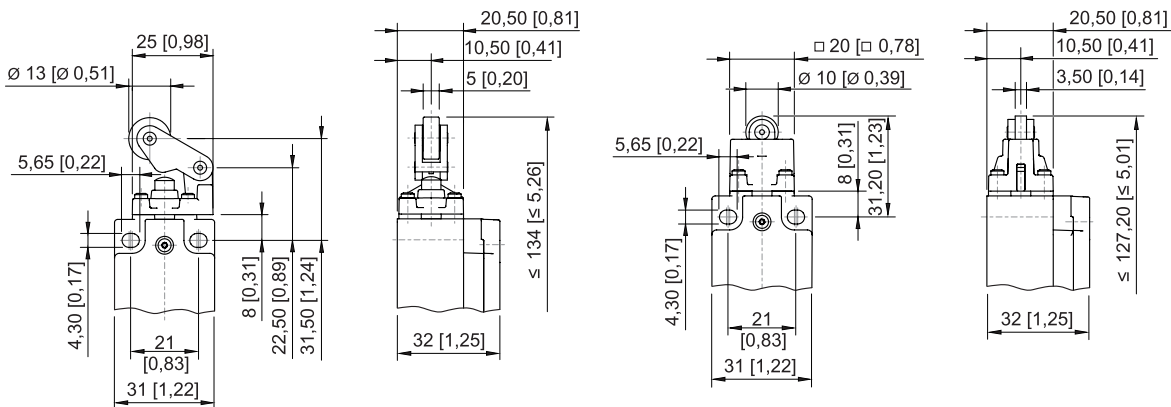
Swivelling lever 8060/2--D-60



Domed plunger 8060/2--W-60

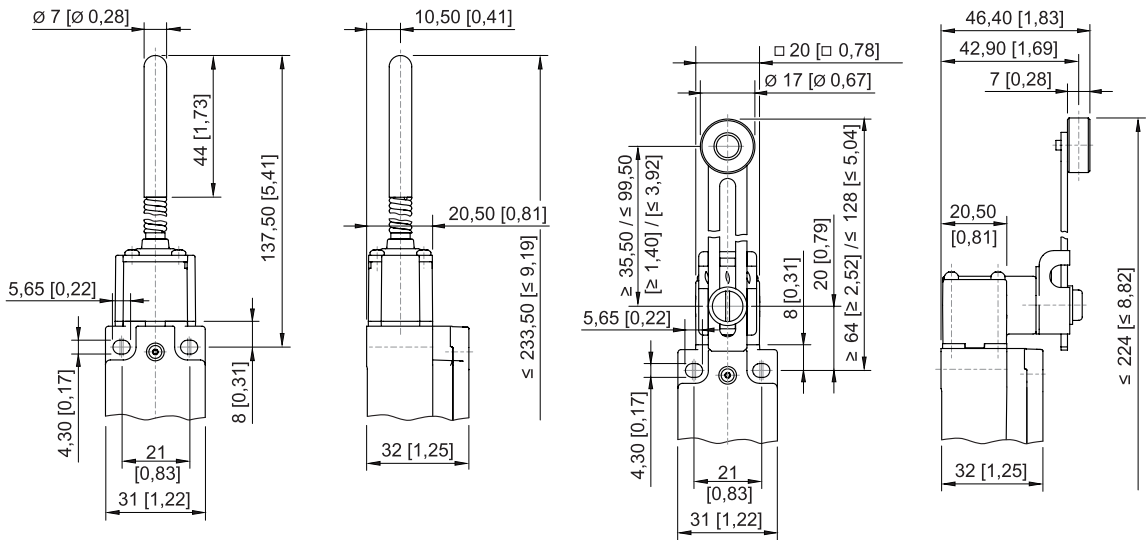
Roller lever 8060/2--WPH-60

E4



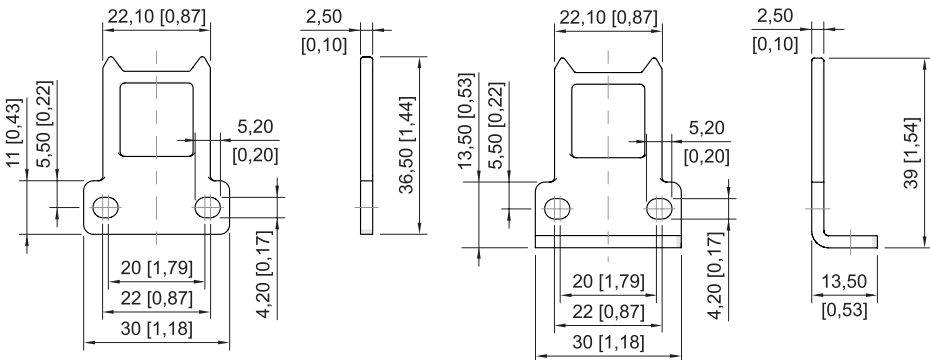
Roller lever 8060/2--WH-60

Roller plunger 8060/2--R-60



Roller plunger 8060/2--R-60

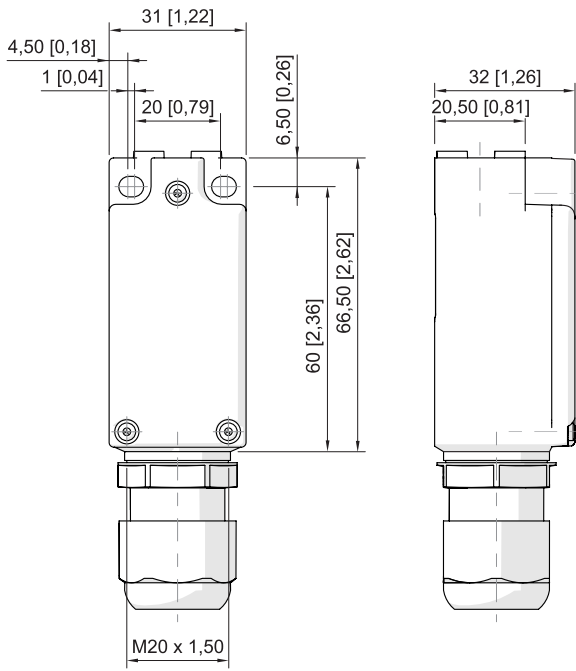
Swivelling lever 8060/2--DS-60



Straight actuator for safety switch

Angled actuator for safety switch

E4





- Operating temperature range: -60 °C to +60 °C
- Large inner connection chamber
- Plastic Ex e enclosure
- Degree of protection IP66/67
- Five different contact versions
- Nine different actuator versions

WebCode **8070C**



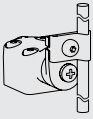




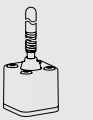
Plastic Position switch; switch dimensions meet the requirements of DIN EN 50041. It is designed to detect the position of moving components. Certified versions fulfil the requirements for safety switches as set out in EN 13849-1 and have positive-opening contacts in accordance with EN 60947-5-1.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table								
Actuator		Adjustable rotary lever						
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	No	8070/2-1-DS-U60	258224	11	0.256
		Snap-action contact	500 V	No	8070/2-2-DS-U60	258232	11	0.256
	2 NCs	Slow-action contact	400 V	No	8070/2-3-DS-U60	258239	11	0.256
Actuator		Parallel roller lever						
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8070/2-1-WPH-U60	258222	11	0.170
		Snap-action contact	500 V	Yes	8070/2-2-WPH-U60	258230	11	0.170
Actuator		Plunger						
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8070/2-1-W-U60	258219	11	0.167
		Slow-action contact, Overlapping	500 V	Yes	8070/2-5-W-U60	258243	11	0.167
		Snap-action contact	500 V	Yes	8070/2-2-W-U60	258227	11	0.167
	2 NCs	Slow-action contact	400 V	Yes	8070/2-3-W-U60	258235	11	0.167

E4

Selection Table

Actuator Rod lever								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	No	8070/2-1-DD-U60	258225	11	0.242
		Slow-action contact, Overlapping	500 V	No	8070/2-5-DD-U60	258244	11	0.242
		Snap-action contact	500 V	No	8070/2-2-DD-U60	258233	11	0.242
	2 NCs	Slow-action contact	400 V	No	8070/2-3-DD-U60	258240	11	0.242
Actuator Roller lever								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8070/2-1-WH-U60	258221	11	0.168
		Snap-action contact	500 V	Yes	8070/2-2-WH-U60	258229	11	0.168
	2 NCs	Slow-action contact	400 V	Yes	8070/2-3-WH-U60	258237	11	0.168
Actuator Roller plunger								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8070/2-1-R-U60	258220	11	0.168
		Snap-action contact	500 V	Yes	8070/2-2-R-U60	258228	11	0.168
	2 NCs	Slow-action contact	400 V	Yes	8070/2-3-R-U60	258236	11	0.168
Actuator Rotary lever								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8070/2-1-D-U60	258223	11	0.234
		Snap-action contact	500 V	Yes	8070/2-2-D-U60	258231	11	0.234
	2 NCs	Slow-action contact	400 V	Yes	8070/2-3-D-U60	258238	11	0.234
	2 NOs	Slow-action contact	400 V	No	8070/2-4-D-U60	258242	11	0.234
Actuator Safety switch								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	500 V	Yes	8070/2-1-AZ-U50	258226	11	0.194
	2 NCs	Slow-action contact	400 V	Yes	8070/2-3-AZ-U50	258241	11	0.194
Actuator Spring rod head								
Figure	Contacts	Switching function	Rated operational voltage AC (equal potential)	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Snap-action contact	500 V	No	8070/2-2-TK-U60	258234	11	0.204

The actuators enclosed are not mounted.

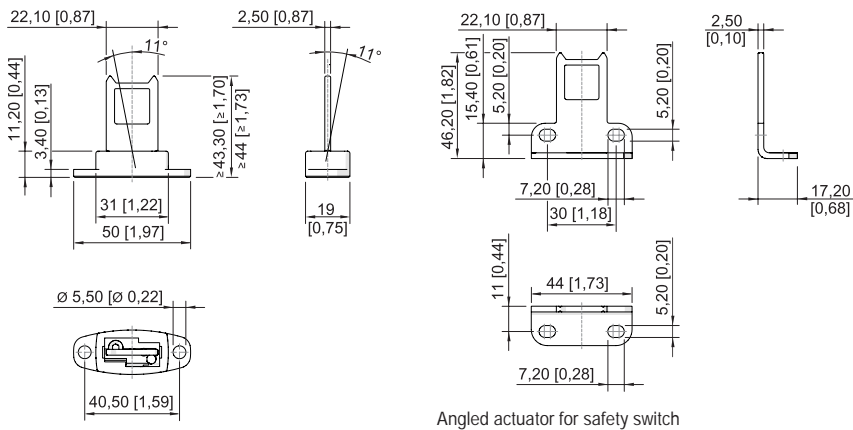
Safety switch, separate actuator made of metal (please order separately; see spare parts and accessories)

Actuators without positive opening are not suitable for safety circuits!

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC T6 Gb
Gas explosion protection EAC	1 Ex db e IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tb IIIC T80 °C Db
Certificates	ATEX (BVS), Canada / USA (CSA), EAC (CCVE), IECEx (BVS), India (PESO)
Electrical Data	
Rated operational voltage DC	250 V
Rated operational voltage (unequal potential)	250 V
Rated operational current	2 A
Rated operational current note	at 2 A: -60 °C < Ta < +60 °C (at 4 A: -60 °C < Ta < +55 °C)
Electrical service life	Max. 10 ⁶ operating cycles
Mechanical service life	Max. 10 ⁶ operating cycles
Rated surge voltage	6 kV
Short-circuit protection max.	6 A
Maximum operating frequency	1800 operating cycles/h
Ambient Conditions	
Ambient temperature	-50 °C ... +55 °C -20 °C ... +60 °C (IP67 (EN 60529))
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	Thermoplast GF, impact resistant
Cover material	Duroplast GF, impact resistant
Contact material	Silver-nickel
Connection cross-section finely stranded	0.75 – 1.5 mm ²
Connection cross-section solid	0.75 – 1.5 mm ²
Contact system	2-pole, galvanically separated with double break
Contact opening	≥ 1.5 mm (isolating distance ≥ 3 mm)
Seal	Silicone
Components	
Screw connections	1 x M20 Ø 7 – 13 mm
Material of screw connections	Black plastic
Accessories and spare parts on the Internet r-stahl.com	

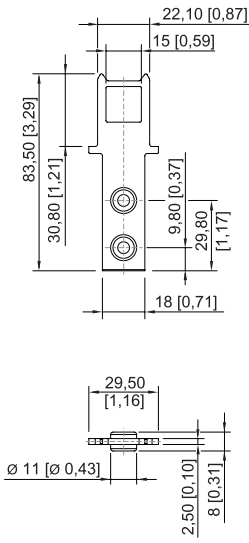
E4

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

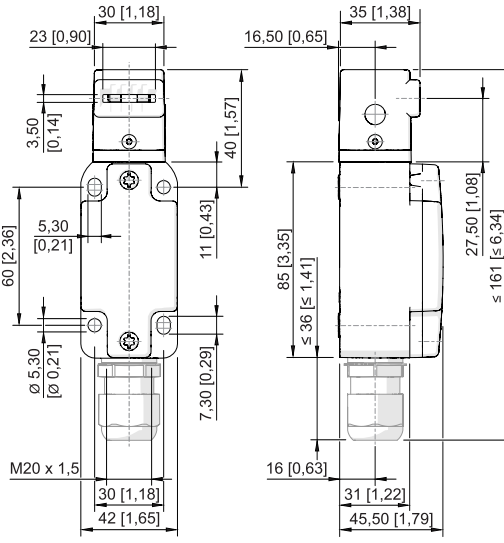


Adjustable actuator for safety switch

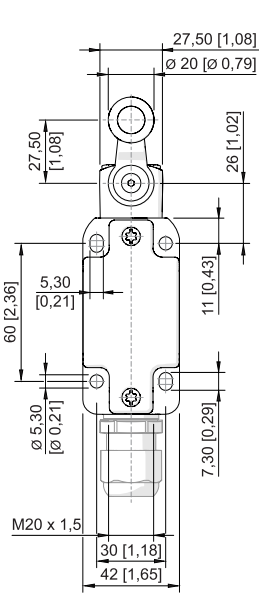
Angled actuator for safety switch



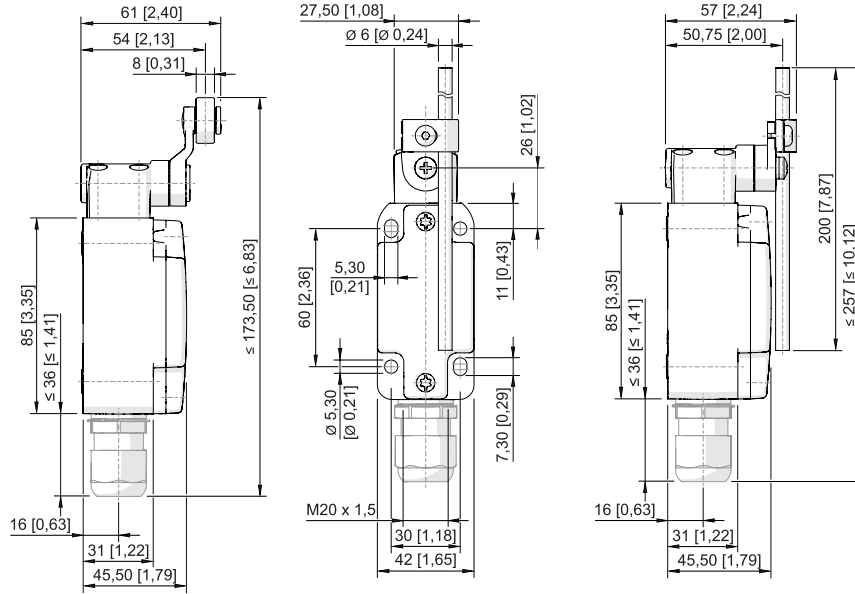
Straight actuator for safety switch



Safety switch 8070/2--AZ-U50

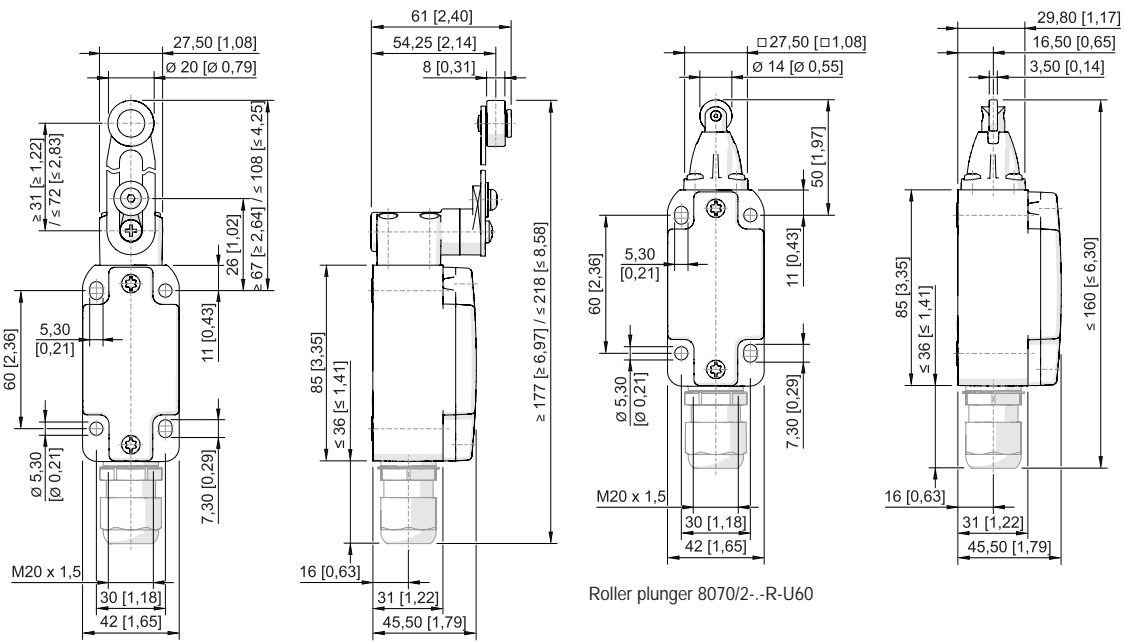


Swivelling lever 8070/2--D-U60



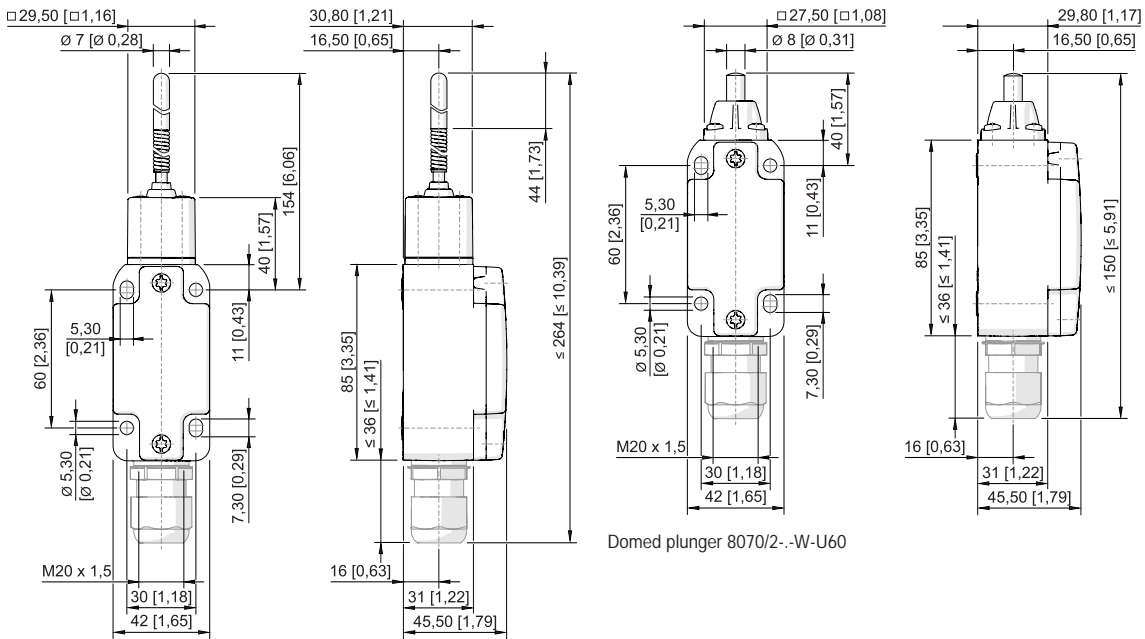
Rod lever 8070/2--DD-U60

E4



Roller plunger 8070/2--R-U60

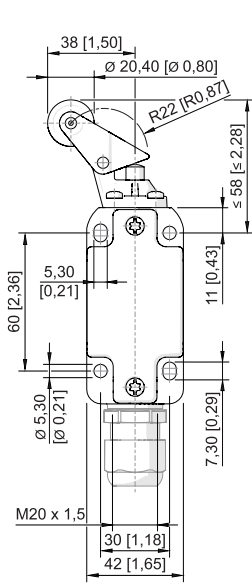
Swivelling lever 8070/2--DS-U60



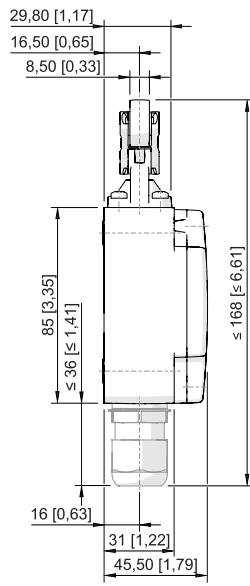
Roller plunger 8070/2--R-U60

Domed plunger 8070/2--W-U60

E4



Roller lever 8070/2--WH-U60



Roller lever 8070/2--WPH-U60



- Flexible configuration due to pushbutton, mushroom pushbutton, mushroom stay-put button, mushroom stay-put button with key lock, key-operated button, key-operated switch
- Easy assembly thanks to single-hole mounting (D 30)
- Codable "latching", "spring return", "key not removable" functions
- Spring clamp terminals with connection chamber

WebCode **8003A**



R. STAHL Series 8003 control buttons and/or switches for panel mounting switch load, control and signal circuits up to 6 A. Depending on the type, they are complete or incomplete explosion-protected equipment with corresponding requirements for installation. As an option, various actuators are available.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table							
Actuator		Key-operated switch actuator With key-operated switch actuator					
Number of switching positions		2					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	Yes	8003/111-008-2-r-KMS1	269815	11	0.250
		1	Yes	8003/111-008-2-r-MS1	269812	11	0.230
	-	2	Yes	8003/131-008-2-r-MS1	269813	11	0.220
Actuator		Mushroom pushbutton					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	Yes	8003/111-003	269811	11	0.140
Actuator		Mushroom stay-put button					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	No	8003/111-012S	269846	11	0.125
	2	-	No	8003/121-012S	269847	11	0.125
	-	2	No	8003/131-012S	269848	11	0.125
Actuator		Mushroom stay-put button EM-STOP					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	No	8003/111-010S	269835	11	0.125
	2	-	No	8003/121-010S	269836	11	0.125
	-	2	No	8003/131-010S	269837	11	0.125

E4

Selection Table							
Actuator		Mushroom stay-put button EM-STOP, 55 mm					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	No	8003/111-015S	269838	11	0.145
	2	-	No	8003/121-015S	269839	11	0.145
Actuator		Mushroom stay-put button With key-operated switch actuator EM-STOP					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	No	8003/111-009S-MS1	269834	11	0.140
Actuator		Pushbutton					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	Yes	8003/111-001-AU	269817	11	0.125
		1	Yes	8003/111-001	269763	11	0.140
		1	No	8003/111-001S	269831	11	0.140
	2	-	Yes	8003/121-001	269766	11	0.140
		-	No	8003/121-001S	269832	11	0.140
	-	2	Yes	8003/131-001	269767	11	0.140
		2	No	8003/131-001S	269833	11	0.140
Actuator		Rotary actuator, small Not padlockable					
Number of switching positions		2					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	Yes	8003/111-726-2-r	269816	11	0.125
		1	Yes	8003/141-726-2-r	269829	11	0.125
	-	2	Yes	8003/131-726-2-r	269821	11	0.125
Actuator		Rotary actuator, small Not padlockable					
Number of switching positions		3					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	-	2	Yes	8003/131-726-3-rr	269822	11	0.125
		2	Yes	8003/131-726-3-tt	269823	11	0.125
Actuator		Rotary actuator, small Padlockable					
Number of switching positions		2					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	Yes	8003/111-727-2-r	269843	11	0.125
	-	2	Yes	8003/131-727-2-r	269824	11	0.125



E4

Control Buttons / Switches for Panel Mounting

Series 8003 Spring Clamp Terminals with Connection Chamber

STAHL

Selection Table

Actuator Number of switching positions		Rotary actuator, small Padlockable 3					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	-	2	Yes	8003/131-727-3-rr	269825	11	0.125
Actuator Number of switching positions		Selector switch 2					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	Yes	8003/111-005	269768	11	0.125

- yellow label for EM-STOP function is enclosed
- plates must be ordered separately; see accessories
- key-operated switch with "spring-return" and/or "key not removable" on request
- versions with other locking cylinders on request
- key switches type 8003/1...-008- and control switches type 8003/1...-726-3 are codable ("latching", "spring-return", "key removable")

Technical Data

Variant	8003/1.1-...	8003/1.1-...S
Explosion Protection		
Gas explosion protection IECEx	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex db eb IIC T6 Gb	⊕ II 2 G Ex db eb IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T80 °C Db	⊕ II 2 D Ex tb IIIC T80 °C Db
Electrical Data		
Rated operational voltage AC	500 V	500 V
Rated operational current	6 A	6 A
Ambient Conditions		
Ambient temperature	-20 °C ... +60 °C	-55 °C ... +60 °C
Mechanical Data		
Enclosure protection type (IP) front	IP66	IP66
Enclosure protection type (IP) rear	IP65	IP65
Contact material	Silver-nickel	Silver-nickel
Conductor cross-section min.	0.75 mm ²	0.75 mm ²
Conductor cross-section max.	1.5 mm ²	1.5 mm ²
Components		
Screw connections	1 x M16 x 1.5	1 x M16 x 1.5
Entry type	Standard 8161, moulded material	Standard 8161, moulded material

Accessories and spare parts see page 626

Dimensional Drawings see page 619

E4



- Flexible configuration due to pushbutton, mushroom pushbutton, mushroom stay-put button, mushroom stay-put button with key lock, key-operated button, key-operated switch
- Easy assembly thanks to single-hole mounting (D 30)
- Codable "latching", "spring return", "key not removable" functions
- Spring clamp terminals without connection chamber
- For installation in Ex e enclosures

WebCode **8003C**



R. STAHl Series 8003 control buttons and/or switches for panel mounting switch load, control and signal circuits up to 6 A. Depending on the type, they are complete or incomplete explosion-protected equipment with corresponding requirements for installation. As an option, various actuators are available.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Actuator		Key-operated switch actuator With key-operated switch actuator					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	Yes	8003/112-008-2-r-MS1	269844	11	0.230
Actuator		Mushroom stay-put button EM-STOP					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	2	-	No	8003/122-010S	269840	11	0.125
Actuator		Pushbutton					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	Yes	8003/112-001	269764	11	0.180
	-	2	Yes	8003/132-001	269765	11	0.576



E4

Control Buttons / Switches for Panel Mounting

Series 8003 Spring Clamp Terminals without Connection Chamber

STAHL

Selection Table

Actuator		Rotary actuator, small Not padlockable					
Number of switching positions		2					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	Yes	8003/112-726-2-r	269818	11	0.125
Actuator		Rotary actuator, small Not padlockable					
Number of switching positions		3					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	-	2	Yes	8003/132-726-3-rr	269814	11	0.125

- yellow label for EM-STOP function is enclosed
- plates must be ordered separately; see accessories
- key-operated switch with "spring-return" and/or "key not removable" on request
- versions with other locking cylinders on request
- key switches type 8003/1-...-008- and control switches type 8003/1...-726-3 are codable ("latching", "spring-return", "key removable")

Technical Data

Variant	8003/1.2-...	8003/1.2-...S
Explosion Protection		
Gas explosion protection IECEx	Ex db eb IIC Gb	Ex db eb IIC Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC Gb	Ⓔ II 2 G Ex db eb IIC Gb
Electrical Data		
Rated operational voltage AC	500 V	500 V
Rated operational current	6 A	6 A
Ambient Conditions		
Ambient temperature	-20 °C ... +60 °C	-55 °C ... +60 °C
Mechanical Data		
Enclosure protection type (IP) front	IP66	IP66
Enclosure protection type (IP) rear	IP20	IP20
Contact material	Silver-nickel	Silver-nickel
Conductor cross-section min.	0.5 mm ²	0.5 mm ²
Conductor cross-section max.	2.5 mm ²	2.5 mm ²

Accessories and spare parts see page 626

Dimensional Drawings see page 619

E4



- Flexible configuration due to pushbutton, mushroom pushbutton, mushroom stay-put button, mushroom stay-put button with key lock, key-operated button, key-operated switch
- Easy assembly thanks to single-hole mounting (D 30)
- Codable "latching", "spring return", "key not removable" functions
- Plug-in connection with 6 m connection line

WebCode **8003D**



R. STAHL Series 8003 control buttons and/or switches for panel mounting switch load, control and signal circuits up to 6 A. Depending on the type, they are complete or incomplete explosion-protected equipment with corresponding requirements for installation. As an option, various actuators are available.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table




Actuator		Key-operated switch actuator With key-operated switch actuator					
Number of switching positions		2					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	Yes	8003/113-008-2-r-MS1-6	269849	11	0.125
	2	-	Yes	8003/123-008-2-r-MS1-6	269845	11	0.125
Actuator		Key-operated switch actuator With key-operated switch actuator					
Number of switching positions		3					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	-	2	Yes	8003/133-008-3-rr-MS1-6	269827	11	0.125
Actuator		Mushroom stay-put button EM-STOP					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	No	8003/113-010S-6	269841	11	0.125
	2	-	No	8003/123-010S-6	269842	11	0.125

E4

Control Buttons / Switches for Panel Mounting

Series 8003 Plug-in Connection with Connection Line

STAHL

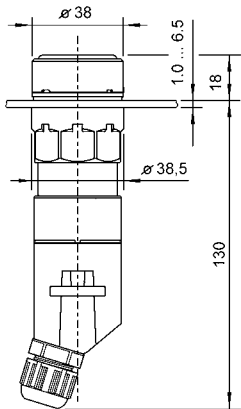
Selection Table							
Actuator		Pushbutton					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	Yes	8003/113-001-6	269819	11	0.125
	-	2	Yes	8003/133-001-6	269826	11	0.125
Actuator		Rotary actuator, small Not padlockable					
Number of switching positions		2					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	Yes	8003/113-726-2-r-6	269820	11	0.125
	-	2	Yes	8003/133-726-2-r-6	269827	11	0.125
Actuator		Rotary actuator, small Not padlockable					
Number of switching positions		3					
Figure	Number of NCs	Number of NOs	Silicone-free	Product Type	Art. No.	PS	Weight kg
	1	1	Yes	8003/143-726-3-tt-6	269830	11	0.125
	-	2	Yes	8003/133-726-3-tt-6	269828	11	0.125

- yellow label for EM-STOP function is enclosed
- plates must be ordered separately; see accessories
- key-operated switch with "spring-return" and/or "key not removable" on request
- versions with other locking cylinders on request
- key switches type 8003/1-..-008- and control switches type 8003/1-..-726-3 are codable ("latching", "spring-return", "key removable")

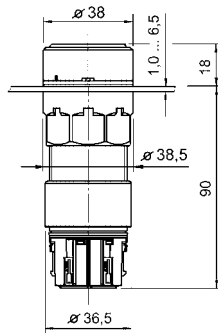
Technical Data			
Variant	8003/1.3-...	8003/1.3-...S	
Explosion Protection			
Gas explosion protection IECEx	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb	
Gas explosion protection ATEX	Ⓜ II 2 G Ex db eb IIC T6 Gb	Ⓜ II 2 G Ex db eb IIC T6 Gb	
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db	
Dust explosion protection ATEX	Ⓜ II 2 D Ex tb IIIC T80 °C Db	Ⓜ II 2 D Ex tb IIIC T80 °C Db	
Electrical Data			
Rated operational voltage AC	500 V	500 V	
Rated operational current	6 A	6 A	
Ambient Conditions			
Ambient temperature	-20 °C ... +60 °C	-55 °C ... +60 °C	
Mechanical Data			
Enclosure protection type (IP) front	IP66	IP66	
Enclosure protection type (IP) rear	IP65	IP65	
Contact material	Silver-nickel	Silver-nickel	
Conductor length	6 m	6 m	
Type of connection cable	ÖLFLEX 4x1 mm ²	ÖLFLEX 4x1 mm ²	
Components			
Screw connections	1 x M16 x 1.5	1 x M16 x 1.5	
Entry type	Standard 8161, moulded material	Standard 8161, moulded material	
Accessories and spare parts see page 626			
Dimensional Drawings see page 619			

E4

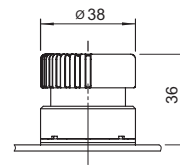
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



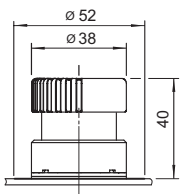
Pushbutton with connection area



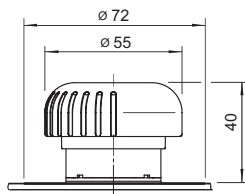
Pushbutton without connection area



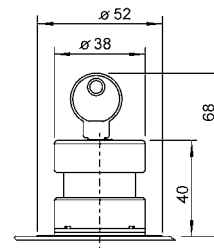
Mushroom button



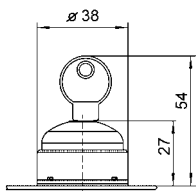
Mushroom stay-put button Ø 38 mm



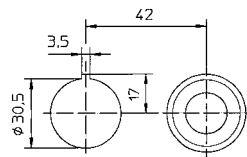
Mushroom stay-put button Ø 55 mm



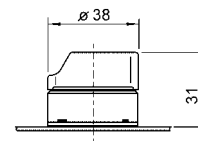
Key-stay button



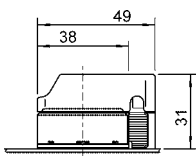
Key switch



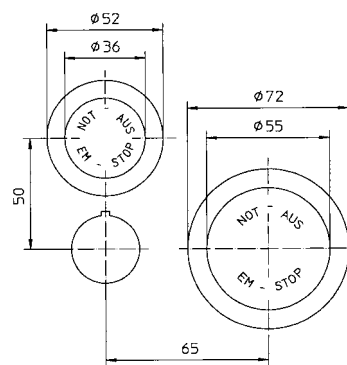
Drilling pattern: for aligning several devices Ø 38 mm, in a panel



Control switch, not padlockable

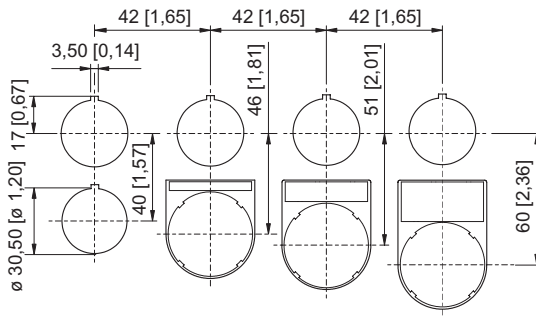


Control switch, one-time padlockable



Standard cut-out for EMERGENCY-STOP button

E4



Standard cut-out with / without front label



- Advantageous LED technology: Extremely long service life, high luminance, low heat build-up
- For installation in enclosure walls, device covers, panels, control cabinets
- Version with spring clamp terminal with or without connection enclosure or version with prefabricated connection line and connection enclosure available

WebCode **8013A**



R. STAHL Series 8013 LED indicating lamps show command statuses via a light signal, the colour of which you can determine using the colour filter included in the delivery: Red, yellow, green, blue or white. The long-life LEDs provide high luminance and low heat build-up. Versions with spring clamp terminal with or without connection enclosure and versions with prefabricated connection line and connection enclosure are available.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Product variant		Ex de						
Connection	Conductor cross-section	Conductor length	Rated operational voltage AC	Rated operational voltage DC	Product Type	Art. No.	PS	Weight kg
Connection cable plug connection	0.75 – 0.75 mm ²	15 m	12 – 254 V	12 – 254 V	8013/313-al-15	269754	11	0.625
		3 m	12 – 254 V	12 – 254 V	8013/313-al-3	269755	11	0.625
		6 m	12 – 254 V	12 – 254 V	8013/313-al-6	269752	11	0.625
Spring terminal connection	0.5 – 2.5 mm ²	–	12 – 254 V	12 – 254 V	8013/311-al	269658	11	0.130
Product variant		Ex i						
Connection	Conductor cross-section	Conductor length	Rated operational voltage AC	Rated operational voltage DC	Product Type	Art. No.	PS	Weight kg
Connection cable plug connection	0.75 – 0.75 mm ²	6 m	10.8 – 28 V	10.8 – 28 V	8013/323-al-6	269753	11	0.625
Spring terminal connection	0.5 – 2.5 mm ²	–	10.8 – 28 V	10.8 – 28 V	8013/321-al	269659	11	0.100

The calotte insert caps red, yellow, green, blue, white are enclosed in the delivery.

Technical Data

Variant	Ex de	Ex i
Explosion Protection		
Gas explosion protection IECEx	Ex db eb mb IIC T6 Gb	Ex db mb ia IIC T6 Gb
Gas explosion protection ATEX	Ⓜ II 2 G Ex db eb mb IIC T6 Gb	Ⓜ II 2 G Ex db mb ia IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ⓜ II 2 D Ex tb IIIC T80 °C Db	Ⓜ II 2 D Ex tb IIIC T80 °C Db

Technical Data		
Variant	Ex de	Ex i
Ambient Conditions		
Ambient temperature	-30°C ... +60°C	-30°C ... +60°C
Lighting Data		
Luminous colour	Green Red Blue White Yellow	Yellow White Red Green Blue
Mechanical Data		
Degree of protection note	acc. IEC/EN 60529	acc. IEC/EN 60529
Enclosure protection type (IP) front	IP66	IP66
Enclosure protection type (IP) rear	IP65	IP65
Silicone-free	Yes	Yes
Cable entry	M16 x 1,5 (Ø2 ... 9 mm)	M16 x 1,5 (Ø2 ... 9 mm)
Components		
Entry type	Standard 8161, moulded material	Standard 8161, moulded material
Accessories and spare parts see page 626		



- Advantageous LED technology: Extremely long service life, high luminance, low heat build-up
- For installation in Ex-e enclosures
- Version with spring clamp terminal with or without connection enclosure or version with prefabricated connection line and connection enclosure available

WebCode **8013B**



R. STAHL Series 8013 LED indicating lamps show command statuses via a light signal, the colour of which you can determine using the colour filter included in the delivery: Red, yellow, green, blue or white. The long-life LEDs provide high luminance and low heat build-up. Versions with spring clamp terminal with or without connection enclosure and versions with prefabricated connection line and connection enclosure are available.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Product variant		Ex de			Art. No.	PS	Weight kg
Connection	Conductor cross-section	Rated operational voltage AC	Rated operational voltage DC	Product Type			
Spring terminal connection	0.5 – 2.5 mm ²	12 – 254 V	12 – 254 V	8013/312-al	269660	11	0.140
Product variant		Ex i			Art. No.	PS	Weight kg
Connection	Conductor cross-section	Rated operational voltage AC	Rated operational voltage DC	Product Type			
Spring terminal connection	0.5 – 2.5 mm ²	10.8 – 28 V	10.8 – 28 V	8013/322-al	269751	11	0.110

The calotte insert caps red, yellow, green, blue, white are enclosed in the delivery.

Technical Data

Variant	Ex de	Ex i
Explosion Protection		
Gas explosion protection IECEx	Ex db eb mb IIC T6 Gb	Ex db mb ia IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb mb IIC T6 Gb	Ⓔ II 2 G Ex db mb ia IIC T6 Gb
Ambient Conditions		
Ambient temperature	-30°C ... +60°C	-30°C ... +60°C
Lighting Data		
Luminous colour	Blue Green Red White Yellow	Green Blue Red Yellow White

Technical Data		
Variant	Ex de	Ex i
Mechanical Data		
Degree of protection IP (IEC 60529)	IP65	IP65
Enclosure protection type (IP) front	IP66	IP66
Enclosure protection type (IP) rear	IP20	IP20
Cable entry	M16 x 1,5 (Ø2 ... 9 mm)	M16 x 1,5 (Ø2 ... 9 mm)
Silicone-free	Yes	Yes
Components		
Entry type	Standard 8161, moulded material	Standard 8161, moulded material
Accessories and spare parts see page 626		



- For installation in enclosure walls, device covers, panels or control cabinets
- Single-hole mounting \varnothing 30 mm
- Advantageous LED technology: Extremely long service life, high luminance, low heat build-up
- Reliable explosion protection due to pressure-resistant encapsulated contact and lighting elements

WebCode **8018A**



R. STAHL Series 8018 LED illuminated pushbuttons switch load, control and signal circuits and show command statuses via a light signal, the colour of which you can determine using the colour filter included in the delivery: Red, yellow, green, blue or white. The long-life LEDs provide high luminance and low heat build-up. The switches are supplied with a connection line.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

LED illuminated pushbutton Ex e										
Product variant	Contact material	Number of NCs	Number of NOs	Rated operational voltage indicating lamp part	Rated operational current	Rated operational current indicating lamp part	Product Type	Art. No.	PS	Weight kg
LED illuminated pushbutton Ex e	Silver-nickel	1	1	12(-10%) ... 254(+6%) V AC/DC	6 A	0.014 A at 24 V DC	8018/3113-al-6	269788	11	0.740
		2	-	12(-10%) ... 254(+6%) V AC/DC	6 A	0.014 A at 24 V DC	8018/3123-al-6	269789	11	0.740
		-	2	12(-10%) ... 254(+6%) V AC/DC	6 A	0.014 A at 24 V DC	8018/3133-al-6	269790	11	0.740
LED illuminated pushbutton Ex i										
Product variant	Contact material	Number of NCs	Number of NOs	Rated operational voltage indicating lamp part	Rated operational current	Rated operational current indicating lamp part	Product Type	Art. No.	PS	Weight kg
LED illuminated pushbutton Ex i	Silver-nickel, gold-plated	1	1	$U_i = 10.8 \dots 28$ V DC	100 mA	$I_i = 150$ mA	8018/3213-al-6	269791	11	0.740
		2	-	$U_i = 10.8 \dots 28$ V DC	100 mA	$I_i = 150$ mA	8018/3223-al-6	269792	11	0.740
		-	2	$U_i = 10.8 \dots 28$ V DC	100 mA	$I_i = 150$ mA	8018/3233-al-6	269793	11	0.740

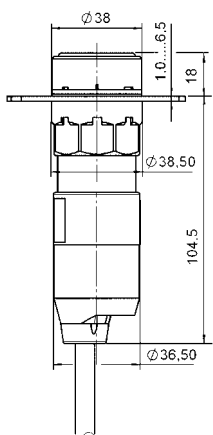
The colour filters red, yellow, green, blue, white are enclosed in the delivery.

Technical Data

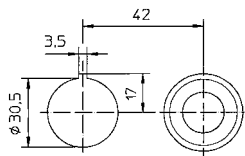
Variant	LED illuminated pushbutton Ex e	LED illuminated pushbutton Ex i
Explosion Protection		
Gas explosion protection IECEx	Ex db mb IIC T6 Gb	Ex db mb ia IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db mb IIC T6 Gb	Ⓔ II 2 G Ex db mb ia IIC T6 Gb

Technical Data		
Variant	LED illuminated pushbutton Ex e	LED illuminated pushbutton Ex i
Explosion Protection		
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T80 °C Db	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Ambient Conditions		
Ambient temperature	-30 °C ... +60 °C	-30 °C ... +60 °C
Lighting Data		
Lamp	White LED	White LED
Luminous colour	White Red Green Blue Yellow	White Red Green Blue Yellow
Mechanical Data		
Enclosure protection type (IP) front	IP66	IP66
Enclosure protection type (IP) rear	IP65	IP65
Enclosure material	Polyamide	Polyamide
Silicone-free	Yes	Yes
Conductor length	6 m	6 m
Mounting / Installation		
Connection	H05 6 x 0.75 mm ² conductor	H05 6 x 0.75 mm ² conductor
Accessories and spare parts see page 626		

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



LED illuminated pushbutton



Drilling pattern: for aligning several devices Ø 38 mm, in a panel






E4

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Spare key			
	standard locking MS1	107109 ▲	0.008
	special locking MS2 ... MS20 (specify as text)	107110	0.008
Symbol label for pushbutton and selector switch			
	Colour: blue Blank label without text	155911 ▲	0.001
	Colour: yellow Blank label without text	155914 ▲	0.001
	Colour: red Blank label without text	155897 ▲	0.001
	Colour: green Blank label without text	155901 ▲	0.001
	Colour: white Blank label without text	155908 ▲	0.001
	Colour: black Blank label without text	155905 ▲	0.001
	Colour: black Text: I	155846 ▲	0.001
	Colour: green Text: I	155689 ▲	0.001
	Colour: white Text: I	155892 ▲	0.001
	Colour: black Text: II	155854 ▲	0.001
	Colour: green Text: II	155706 ▲	0.001

E4

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Symbol label for pushbutton and selector switch			
	Colour: red Text: O	155596 ▲	0.001
	Colour: black Text: O	155783 ▲	0.001
	Colour: black Text: I O	155771 ▲	0.001
	Colour: red Symbol: Arrow	155567 ▲	0.001
	Colour: black Symbol: Arrow	155761 ▲	0.001
	Colour: black Text: EIN	155862 ▲	0.001
	Colour: red Text: OFF	155654 ▲	0.001
	Colour: red Text: Aus	155634 ▲	0.001
	Colour: black Text: Aus	155806 ▲	0.001
	Colour: red Text: STOP	155615 ▲	0.001
	Colour: black Text: STOP	155795 ▲	0.001
	Colour: blue Text: RESET	155894 ▲	0.001

E4

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Symbol label for pushbutton and selector switch			
	Colour: green Text: ON	155671 ▲	0.001
Label mount			
	Label mount, size 1, without symbol label Text: 1 line for actuators to fit Ø 30.5 mm holes	155632 ▲	0.001
	Label mount, size 2, without symbol label Text: 1 or 2 lines for actuators to fit Ø 30.5 mm holes	155687 ▲	0.002
	Label mount, size 3, without symbol label Text: 1, 2 or 3 lines for actuators to fit Ø 30.5 mm holes	155844 ▲	0.002
Actuator			
	for illuminated pushbutton (spring-return)	155163 ▲	0.019
Closure part			
	for closing of unused mounting holes Ø 30.5 mm	155329 ▲	0.016
Colour filter			
	for illuminated pushbuttons white	155877 ▲	0.001
	for illuminated pushbuttons red	155882 ▲	0.001
	for illuminated pushbuttons yellow	155885 ▲	0.001
	for illuminated pushbuttons green	155888 ▲	0.001
	for illuminated pushbuttons blue	155891 ▲	0.001

E4



- Flexible: modular structure and 3 sizes enable customer-specific versions
- Lightweight enclosure made from glass fibre reinforced polyester resin (GRP), suitable for shipping industry and offshore
- Versions with contact elements 8082 and 8208, usable up to SIL 2 and/or SIL 3

WebCode **8040B**



With the R. STAHL Series 8040 control device system, you can get a clear overview of the control devices. The 3 combinable design sizes and the modular structure offer flexibility. You can choose from one standard version and customised variants. The 8208 contact elements monitor the systems for wire breakage and short circuit. The 8208 contact elements monitor the systems for wire breakage and short circuit.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table										
Product variant 2 pushbuttons										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	Pushbutton Green - "I"	Contact element NC / NO	-	-	Pushbutton Red - "0"	Contact element NC / NO	8040/1280X-01L13SA05-01L08SA05	130692▲	11	0.460
Product variant 3 pushbuttons										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	Pushbutton Green - "I"	Contact element NC / NO	Pushbutton Red - "0"	Contact element NC / NO	Pushbutton Green - "II"	Contact element NC / NO	8040/1380X-01L13SA05-01L08SA05-01L15SA05	130861▲	11	0.580
Product variant Ammeter 8405										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Calotte	1 A transducer Value range according to the order	-	-	8040/1280Z-40XXXXN..	130858	11	0.490

E4

Selection Table






Product variant										
Ammeter 8405 and control switch 8008, 2 pole										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	Calotte	Transducer Measuring range according to the order	-	-	Large handle Labelling according to the order	Control switch According to the order	8040/1380Z-40XXXXN.-31....F..	130870 ▲	11	0.780
Product variant										
Ammeter 8405 and control switch 8008, 4 pole										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	Calotte	Transducer Measuring range according to the order	-	-	Large handle Labelling according to the order	Control switch According to the order	8040/2380Z-40XXXXN.-31...SF..	130878	11	0.930
Product variant										
Control switch 2 pole with switch element 8008										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Large handle Labelling according to the order	Control switch According to the order	-	-	8040/1180Z-31....F..	130841	11	0.440
Product variant										
Control switch 8008, 4 pole										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Large handle Labelling according to the order	Control switch According to the order	-	-	8040/2380Z-31...SF..	130874	11	0.770
Product variant										
Key-operated switch										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Key-operated switch Latching/latching	Contact element NO / NO	-	-	8040/1180X-08M01SA05	130902 ▲	11	0.450
	-	-	Key-operated switch Latching/latching	Contact element NO / NO	-	-	8040/1180X-08M03SA04	130822	11	0.450
Product variant										
LED illuminated pushbutton										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	LED illuminated pushbutton All colours	Contact element NO / LED / NC	-	-	8040/1180X-35C06SA45	130828 ▲	11	0.400
Product variant										
LED indicating lamp										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Indicator lamp bezel All colours	LED indicator lamp	-	-	8040/1180X-54C06SXXX	130890 ▲	11	0.350

E4

Selection Table										
Product variant										
LED indicating lamp and 2 pushbuttons										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	Indicator lamp bezel All colours	LED indicator lamp	Pushbutton Green - "I"	Contact element NC / NO	Pushbutton Red - "0"	Contact element NC / NO	8040/1380X-54C06SA70-01L13SA05-01L08SA05	130900 ▲	11	0.640
Product variant										
LED indicating lamp and pushbutton										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	Indicator lamp bezel All colours	LED indicator lamp	-	-	Pushbutton Red - "0"	Contact element NC / NO	8040/1280X-54C06SA70-01L08SA05	130852 ▲	11	0.460
Product variant										
LED indicating lamp and twin pushbutton										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	Indicator lamp bezel All colours	LED indicator lamp	-	-	Twin pushbutton Red "0", green "I"	Contact element NC / NO	8040/1280X-54C06SXXX-23D01SA05	130898 ▲	11	0.540
Product variant										
LED indicating lamp, twin pushbutton and mushroom stay-put button										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	Indicator lamp bezel All colours	LED indicator lamp	Twin pushbutton Red "0", green "I"	Contact element NC / NO	EM-STOP mushroom stay-put button with key lock	Contact element NC / NO	8040/1380X-54C06SA70-23D01SA05-09XXXSA05	130903 ▲	11	0.750
Product variant										
Mushroom pushbutton										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Mushroom pushbutton Black - "I"	Contact element NC / NO	-	-	8040/1180X-03L24SA05	130813 ▲	11	0.400
Product variant										
Mushroom stay-put button										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	EM-STOP mushroom stay-put but. Red - (rotating arrow)	Contact element NC / NO	-	-	8040/1180X-10L07SA05	130679 ▲	11	0.400
	-	-	EM-STOP mushroom stay-put but. Red - (rotating arrow)	Contact element NC / NO / NC	-	-	8040/1180X-10L07SA08	130819 ▲	11	0.410
	-	-	EM-STOP mush. stay-put but. 55 Red - (rotating arrow)	Contact element NC / NO	-	-	8040/1180X-15L07SA05	130816 ▲	11	0.400

E4

Selection Table

Product variant										
Mushroom stay-put button with key lock										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	EM-STOP mushroom stay-put button with key lock	Contact element NC / NO	-	-	8040/1180X-09XXXSA05	130665 ▲	11	0.450
Product variant										
Pushbutton										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Pushbutton Red "0", green "I"	Contact element NC / NO	-	-	8040/1180X-01L50SA05	130686 ▲	11	0.370
Product variant										
Selector switch with contact element 8082										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Small handle Latching/latching	Contact element NC / NO	-	-	8040/1180X-26M01SA05	130834 ▲	11	0.420
	-	-	Small handle Latching/latching	Contact element NO / NO	-	-	8040/1180X-26M03SA04	130837 ▲	11	0.420
Product variant										
Twin pushbutton										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Twin pushbutton Red "0", green "I"	Contact element NC / NO	-	-	8040/1180X-23D01SA05	130825 ▲	11	0.400

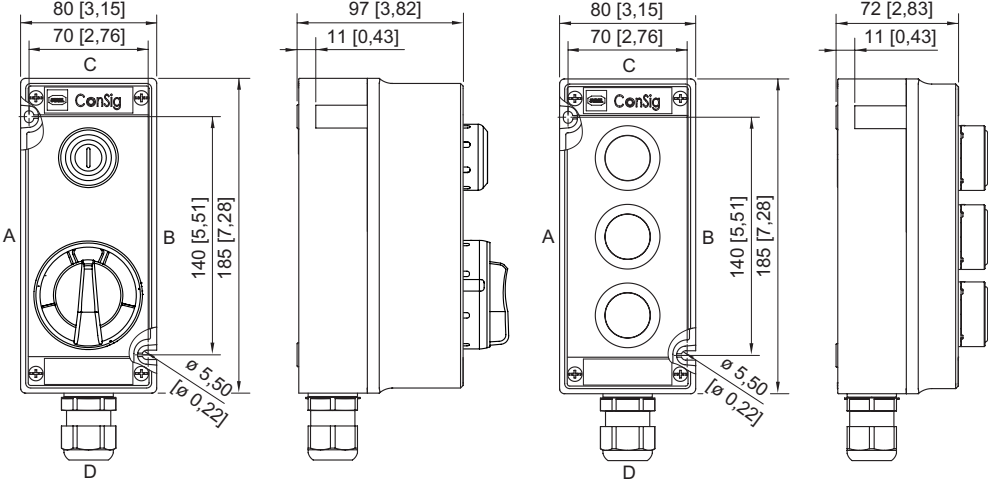
Technical Data

Explosion Protection	
Ambient temperature °C	-60 ... +40 °C
Gas explosion protection IECEx	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex db eb IIC T6 Gb
Gas explosion protection EAC	1 Ex d e IIC T6 Gb X
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tb IIIC T80 °C Db X
Ambient temperature °C 2	-60 ... +55 °C
Gas explosion protection IECEx 2	Ex db eb IIC T5 Gb
Gas explosion protection ATEX 2	⊕ II 2 G Ex db eb IIC T5 Gb
Dust explosion protection IECEx 2	Ex tb IIIC T95 °C Db
Dust Explosion Protection ATEX 2	⊕ II 2 D Ex tb IIIC T95 °C Db
Certificates	ATEX (PTB), Brazil (ULB), China (CQST), EAC (LPE), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	acc. to IEC/EN 60529
Enclosure material	Polyester resin, Glass fibre reinforced

Technical Data

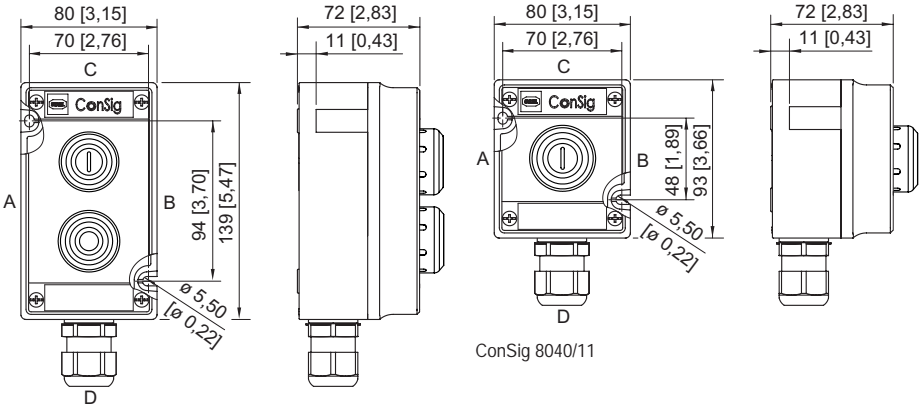
Mechanical Data	
Cover fixing type	With captive screws, M4 stainless steel screws
Seal	Silicone, foamed
Components	
Flange and plates	Without flange, without plates
Screw connections	1 x M25 Ø 7 to 17 mm
Entry type	Standard 8161, moulded material

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



ConSig 8040/23

ConSig 8040/13



ConSig 8040/12

ConSig 8040/11

E4

Technical Data – Components for Control Devices Series 8040

Version	Series 8008 Control switch			
	Rated operational voltage AC	690.00 V		
	Rated operational voltage DC	230.00 V		
	Utilisation category	AC-1	16 A	690 V
		AC-3	16 A	690 V (load disconnect switch 8008/2-6)
		AC-15	16 A	415 V
		DC-1	10 A	220 V (3 conducting paths in series)
Service temperature	T6 at 16 A: -60 ... +60 °C			
Version	Series 8082 Contact element			
	Rated operational voltage	max. 500 V		
	Ambient temperature	-60 °C ... +70 °C		
	Rated operating characteristics according to utilisation category		AC-12	DC-13
		Rated operational voltage	550 V	110 V
	Rated operational current	max. 10 A	max. 2.5 A (two contact elements in series)	
	Switching capacity	max. 3000 W	max. 110 W	
Version	Series 8405 Ammeter			
	Rated operational voltage	max. 500 V		
	Ambient temperature	T6: -50 ... +40 °C (eb) T6: -20 ... +40 °C (mb)		
	Accuracy	Class 2.5		
Version	Series 8010 Indicating lamp			
	Rated operational voltage	Ex e: 12 ... 240 V, AC / DC (± 10 %) Ex i: 10.8 ... 30 V DC		
	Rated operational current I _e	Ex e: max. 15 mA		
	Rated operational power	max. 1 W		
	Frequency range	0 ... 60 Hz		



- Practical Ex e control boxes made from glass fibre reinforced polyester resin
- Equipped as required with control devices, indicator lamps, illuminated pushbuttons, control switches, ammeters, voltmeters
- Optional: flange, cover hinge, flange enclosure, brass plates, cable glands made from metal

WebCode 8146F



R. STAHL Series 8146 control boxes are available in 8 basic sizes and various enclosure heights; they can be combined to make larger units. They are made from high-quality glass fibre reinforced polyester resin. We equip these with various components according to customer requirements, whereby the following optional accessories are available: Flange, cover hinges or cable glands made from metal.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

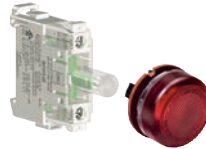
	NEC 505 Class I			NEC 506		
Zone	0	1	2	20	21	22
Installation in		•	•			

	NEC 500					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Installation in		•		•	•	•

Equipment Table for Control Stations Series 8146 and 8150, for Units with Contact Spacing of 42 mm



8082 Control unit with actuators Ø 38 mm



8010 Indicating lamp

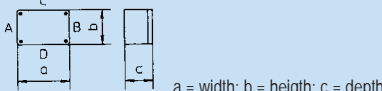




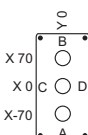
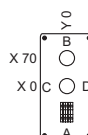
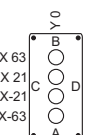




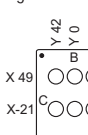
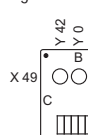
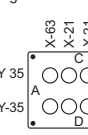
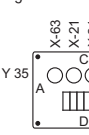
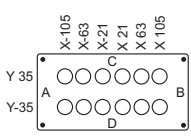
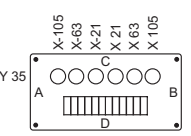
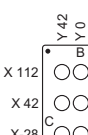
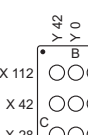


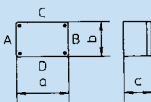
8082/8010 Illuminated lamp

E4

Equipment Configuration

Maximum options for built-in components with contact spacing of 42 mm such as: control units 8082, indicator lamps 8010 and illuminated pushbuttons 8082/8010

Enclosure					Product Type	Weight (empty enclosure) [kg]	
Enclosure size 3 a = 112.500 mm b = 112.500 mm c = 91.000 mm Side facing down	Figure 3.1 				8146/5031-3.	0.64	
Enclosure size 4 a = 170.000 mm b = 112.500 mm c = 91.000 mm Side facing down	Figure 4.1 	Figure 4.2 	Figure 4.3 	8146/5041-3.	0.70		
Enclosure size 24 a = 227.000 mm b = 112.500 mm c = 91.000 mm Side facing down	Figure 24.1 	Figure 24.2 	Figure 24.3 	8146/5241-3.	0.93		
Enclosure size 5 a = 170.000 mm b = 170.000 mm c = 91.000 mm Side facing down	Figure 5.1 	Figure 5.2 	Figure 5.3 	Figure 5.4 	8146/5051-3.	1.10	
Enclosure size 6 a = 227.000 mm b = 170.000 mm c = 91.000 mm Side facing down	Figure 6.1 	Figure 6.2 	Figure 6.3 	Figure 6.4 	8146/5061-3.	1.40	
Enclosure size 7 a = 340.500 mm b = 170.000 mm c = 91.000 mm Side facing down	Figure 7.1 				Figure 7.2 	8146/5071-3.	2.00
Enclosure size 7 a = 340.500 mm b = 170.000 mm c = 91.000 mm Side facing down	Figure 7.3 				Figure 7.4 	8146/5071-3.	2.00

Enclosure	 <p>a = width; b = height; c = depth</p>	Product Type	Weight (empty enclosure) [kg]	
Enclosure size 8 a = 340.500 mm b = 340.500 mm c = 91.000 mm Side facing down	Figure 8.1 	Figure 8.2 	8146/5081-3.	3.40
Enclosure size 9 a = 681.500 mm b = 340.500 mm c = 91.000 mm Side facing down	Figure 9.1 		8146/5091-3.	7.30
Enclosure size 9 Side facing down Order number supplement	Figure 9.2 	Figure 9.3 	8146/5091-3.	7.30
	Specify side facing down:	Side A bottom (see above) Side D bottom (see above)	8146/50.1-.A	8146/50.1-.D

E4

Table of max. number of entries possible with cable glands 8161 see terminal boxes Series 8146, page 511

Dimensional drawings see terminal boxes Series 8146, page 512

Equipment Table for Control Stations Series 8146 and 8150, for Units with Contact Spacing of > 42 mm



8082 Control unit with actuators $\varnothing > 38$ mm



8008 Control switch

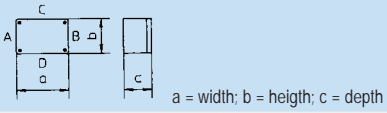
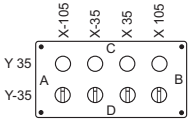
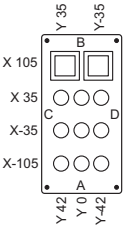
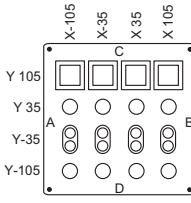
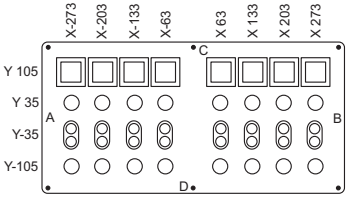
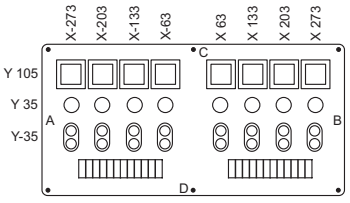


8405 Ammeter

Equipment Configuration

Maximum options with built-in components with contact spacing > 42 mm such as: control switches 8008, ammeters 8405, control units 8082 with actuators $\varnothing > 38$ mm

Enclosure	 a = width; b = height; c = depth				Product Type	Weight (empty enclosure) [kg]
Enclosure size 3	Figure 3.2 	Figure 3.3 	Figure 3.4 		8146/5031-3.	0.64
Side facing down	D	D	D			
Enclosure size 4	Figure 4.4 	Figure 4.5 	Figure 4.6 	Figure 4.7 		
Side facing down	A	A	D	D	8146/5041-3.	0.70
Enclosure size 24	Figure 24.4 	Figure 24.5 			8146/5241-3.	0.93
Side facing down	A	A				
Enclosure size 5	Figure 5.5 	Figure 5.6 				
Side facing down	D	D			8146/5051-3.	1.10
Enclosure size 6	Figure 6.5 	Figure 6.6 			8146/5061-3.	1.40
Side facing down	A	A				

Enclosure		Product Type	Weight (empty enclosure) [kg]
Enclosure size 7 Side facing down	Figure 7.5 	8146/5071-3.	2.00
Enclosure size 7 Side facing down	Figure 7.6 	8146/5071-3.	2.00
Enclosure size 8 Side facing down	Figure 8.3 	8146/5081-3.	3.40
Enclosure size 9 Side facing down	Figure 9.4 	8146/5091-3.	7.30
Enclosure size 9 Side facing down	Figure 9.5 	8146/5091-3.	7.30
Order number supplement	Specify side facing down:	8146/50.1-.A 8146/50.1-.D	

E4

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex db eb ia [ia Ga] ib [ib] mb q IIA, IIB, IIC T6, T4, T3 Gb
Gas explosion protection ATEX	Ⓜ II 2 G Ex db eb ia [ia Ga] ib [ib] mb q IIA, IIB, IIC T6, T4, T3 Gb
Gas explosion protection EAC	1 Ex e . IIC...IIA T6...T3 Gb X
Dust explosion protection IECEx	Ex tb IIIA, IIIB, IIIC T80 °C, T95 °C, T130 °C Db
Dust explosion protection ATEX	Ⓜ II 2 D Ex tb IIIA, IIIB, IIIC T80 °C, T95 °C, T130 °C Db
Dust explosion protection EAC	Ex tb IIIC T80 °C...T130 °C Db X
Certifications	ATEX, Brazil (INMETRO), China (China-Ex), EAC (TR), IECEx, India (PESO), Canada (CSA / cFM), Korea (KCs), Taiwan (ITRI), Ukraine (TR), USA (FM / UL)

Electrical Data

Rated operational voltage	max. 1100 V AC / DC
Rated operational current	0 – 630 A
Frequency range	50 – 60 Hz

Ambient Conditions

Ambient temperature	-60 °C ... +100 °C
Ambient temperature note	Depending on explosion protected components used

Mechanical Data

Degree of protection (IP)	IP66
Enclosure material	Polyester resin, glass-fibre-reinforced, dark-grey, similar to RAL 7024 impact resistance ≥ 7 J surface resistance $\leq 10^9 \Omega$ flame retardant acc. IEC/EN 60695, UL 94, ASTM D635
Sealing material	Standard: foamed silicone Special: PU, foamed (-20 ... +80 °C)
Silicone-free	No

Table of max. number of entries possible with cable glands 8161 see terminal boxes Series 8146, page 511
Dimensional drawings see terminal boxes Series 8146, page 512

Control and Distribution Boxes

Series 8150 made of Stainless Steel



- Individually equipped Ex e control boxes made from stainless steel
- Sealed either with hinged cover (large opening angle of 130°) and sash lock, or with screw-on cover
- Numerous standard sizes in stock, special sizes on request

WebCode **8150B**



R. STAHL Series 8150 control and distribution boxes are made of brushed stainless steel (1.4301, AISI 304 or 1.4404, AISI 316L) and are particularly robust: The high-quality sealing materials are suitable for an extended temperature range and a circumferential protection channel prevents water penetration. A flange plate makes assembly easier.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

	NEC 505 Class I			NEC 506		
Zone	0	1	2	20	21	22
Installation in		•	•			

	NEC 500					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Installation in		•		•	•	•

Equipment Table for Control Stations Series 8146 and 8150, for Units with Contact Spacing of 42 mm



8082 Control unit with actuators Ø 38 mm



8010 Indicating lamp



8082/8010 Illuminated lamp

E4

Equipment Configuration

Maximum options for built-in components with contact spacing of 42 mm such as: control units 8082, indicator lamps 8010 and illuminated pushbuttons 8082/8010

		Product Type			
a = width; b = height; c = depth					
Dimensions a = 176.500 mm b = 116.000 mm c = 91.000 mm	Fig. 4.1 	8150/5-0176-0116-091-3.1			
a = 176.500 mm b = 176.500 mm c = 91.000 mm	Fig. 5.1 	Fig. 5.2 	Fig. 5.3 	Fig. 5.4 	8150/5-0176-0176-091-3.1
a = 236.500 mm b = 176.500 mm c = 91.000 mm	Fig. 6.1 	Fig. 6.2 	Fig. 6.3 	Fig. 6.4 	8150/5-0236-0176-091-3.1
a = 360.000 mm b = 176.500 mm c = 91.000 mm	Fig. 7.1 	Fig. 7.2 			8150/5-0360-0176-091-3.1
a = 360.000 mm b = 360.000 mm c = 91.000 mm	Fig. 8.1 	Fig. 8.2 			8150/5-0360-0360-091-3.1
a = 727.000 mm b = 360.000 mm c = 150.000 mm	Fig. 9.1 			8150/5-0727-0360-150-3.1	
a = 727.000 mm b = 360.000 mm c = 150.000 mm	Fig. 9.2 	Fig. 9.3 			8150/5-0727-0360-150-3.1 8150/5-0360-0727-150-3.1

Table of max. number of entries possible with cable glands 8161 see terminal boxes Series 8150, page 518

Dimensional drawings see terminal boxes Series 8150, page 519

Equipment Table for Control Stations Series 8146 and 8150, for Units with Contact Spacing of > 42 mm



8082 Control unit with actuators $\varnothing > 38$ mm

8008 Control switch

8405 Ammeter

Equipment Configuration

Maximum options with built-in components with contact spacing > 42 mm such as: control switches 8008, ammeters 8405, control units 8082 with actuators $\varnothing > 38$ mm

 a = width; b = height; c = depth		Product Type			
Dimensions a = 176.500 mm b = 116.000 mm c = 91.000 mm	Fig. 4.2 	Fig. 4.3 	Fig. 4.4 	Fig. 4.5 	8150/5-0176-0116-091-3.1
a = 176.500 mm b = 176.500 mm c = 91.000 mm	Fig. 5.5 	Fig. 5.6 	8150/5-0176-0176-091-3.1		
a = 236.500 mm b = 176.500 mm c = 91.000 mm	Fig. 6.5 	Fig. 6.6 	8150/5-0236-0176-091-3.1		
a = 300.000 mm b = 200.000 mm c = 150.000 mm	Fig. 10.1 	Fig. 10.2 	8150/5-0300-0200-150-3.1		
a = 360.000 mm b = 176.500 mm c = 91.000 mm	Fig. 7.3 	8150/5-0360-0176-091-3.1			
a = 360.000 mm b = 176.500 mm c = 91.000 mm	Fig. 7.4 	Fig. 7.5 	8150/5-0360-0176-091-3.1		
a = 360.000 mm b = 360.000 mm c = 91.000 mm	Fig. 8.3 	Fig. 8.4 	8150/5-0360-0360-091-3.1		

E4

		Product Type
<p>a = width; b = height; c = depth</p>		
<p>a = 400.000 mm b = 300.000 mm c = 150.000 mm</p>	<p>Fig. 11.1</p> <p>Fig. 11.2</p>	8150/5-0400-0300-150-3.1
<p>a = 400.000 mm b = 400.000 mm c = 150.000 mm</p>	<p>Fig. 12.1</p> <p>Fig. 11.2</p>	8150/5-0400-0400-150-3.1
<p>a = 600.000 mm b = 400.000 mm c = 150.000 mm</p>	<p>Fig. 13.1</p> <p>Fig. 13.2</p>	8150/5-0600-0400-150-3.1
<p>a = 400.000 mm b = 600.000 mm c = 150.000 mm</p>	<p>Fig. 13.3</p> <p>Fig. 13.4</p>	8150/5-0600-0400-150-3.1 8150/5-0460-0600-150-3.1
<p>a = 727.000 mm b = 360.000 mm c = 150.000 mm</p>	<p>Fig. 9.4</p>	8150/5-0727-0360-150-3.1
<p>a = 727.000 mm b = 360.000 mm c = 150.000 mm</p>	<p>Fig. 9.5</p>	8150/5-0727-0360-150-3.1
<p>a = 600.000 mm b = 600.000 mm c = 150.000 mm</p>	<p>Fig. 14.1</p> <p>Fig. 14.2</p>	8150/5-0727-0360-150-3.1

Table of max. number of entries possible with cable glands 8161 see terminal boxes Series 8150, page 518

Dimensional drawings see terminal boxes Series 8150, page 519

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex db eb ia [ia Ga] ib [ib] ma mb op pr op is qb IIA, IIB, IIC T6, T4, T3 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb ia [ia Ga] ib [ib] ma mb op pr op is qb IIA, IIB, IIC T6, T4, T3 Gb
Gas explosion protection EAC	1 Ex e . IIC...IIA T6...T3 Gb X
Dust explosion protection IECEx	Ex tb IIIC IP6X T130 °C, T95 °C, T80 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC IP6X T130 °C, T95 °C, T80 °C Db
Dust explosion protection EAC	Ex tb IIIC T80 °C...T130 °C Db X
Certifications	ATEX, Brazil (INMETRO), China (China-Ex), EAC (TR), IECEx, India (PESO), Canada (CSA / cFM), Korea (KCs), Ukraine (TR), USA (FM / UL)
Ship certificates	GL, RS
Electrical Data	
Rated operational voltage	max. 1100 V AC / DC
Rated operational current	0 – 630 A
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-60 °C ... +85 °C
Ambient temperature note	depending on explosion protected components used
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	8150/5-.....-2.....: stainless steel 1.4301 (AISI 304), brush finished 8150/5-.....-3.....: stainless steel 1.4404 (AISI 316L), brush finished
Sealing material	Silicone, foamed
Silicone-free	No
Terminals	Rated cross section which can be used: max. 300 mm ² . The maximum number of terminals for the respective enclosure size is indicated in the EC Type Examination Certificate.
Cover fixing type	Standard: with captive M6 stainless steel cheese-head screws with combined slot, option: with cover hinges
Notes	Hinge + cam lock without 8150/.....-1. with 8150/.....-2.
Mounting / Installation	
Connection	Depending on order requirements at the built-in components or at the terminal blocks. The rated operational voltage, the rated operational current and the rated cross section depend on the terminal type used and the explosion protected components.
Tightening torque	according to specifications of the terminal block manufacturer
Components	
Flange and plates	Standard: in the standard version, the enclosures are supplied without flanges. Depending on order requirements the enclosures can be installed on one or more sides with flanges. Flange material: stainless steel



- High frequency motion sensor
- Intelligent sensor technology
- Adjustable on-off time
- Individually adjustable time and twilight threshold

WebCode **8265E**

The motion sensor is equipped with intelligent sensor technology that provides additional security. The motion sensor, which features an 8 m beam width, a total switching load of 1000 W and a twilight setting of 2 to 2000 lux, is ideal for controlling lighting installations and systems.


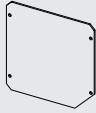

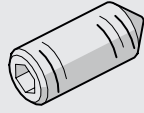


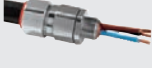
	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Design		Motion sensor				
Width	Height	Length	Product Type	Art. No.	PS	Weight kg
195 mm	172 mm	195 mm	8265/53	258122	13	8.183

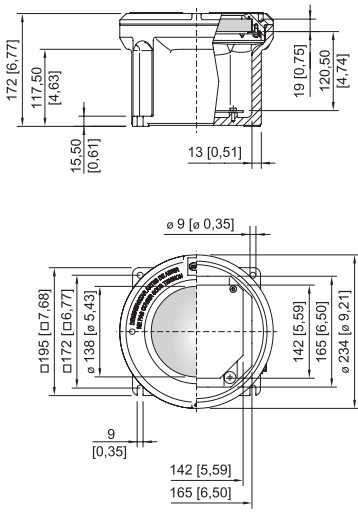
Technical Data

Explosion Protection	
Gas explosion protection IECEx	Ex db IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), China (CQST), IECEx (PTB), India (PESO)
Electrical Data	
Rated operational voltage min. AC	230 V
Rated operational voltage max. AC	240 V
Ambient Conditions	
Ambient temperature min.	-20 °C
Ambient temperature max.	+50 °C
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	Aluminium, copper-free, Seawater-resistant
Seal	2 x M20 Novapress 815
Material note	In case of continuous contact with seawater, a coating is recommended
Components	
Stopping plug	2 x CMP-757D MsNi M20

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Cover with inspection window			
	for enclosure size 3 visible part of window \varnothing 141 mm	143452	2.232
Mounting plate			
	for enclosure size 3	143485	0.364
O-ring			
	silicone, for enclosure size 3	221718	0.010
Threaded pin			
	M5x16-A2 with allen screw and point	110216	0.001
Box spanner			
	to open the enclosure cover for size 1, 2, 3, 4 2 socket keys are required	142059	0.060
Lubricating grease for thread gap			
	Grease for low temperatures	105077	1.070
Cable glands made of metal			
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	0.240
If the cable is selected in accordance with IEC/EN 60079-14, other cable glands can be used. Additional variants, such as heaters, paint, connection chambers or cable entries, are available on request.			

E4

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Enclosure size 3 with inspection window



E4

SIGNALLING DEVICES



Product	Installation in Zone						Series	Page	WebCode
	0	1	2	20	21	22			
Audible and Visual Signalling Devices									
Combines Audible and Visual Signalling Devices - Flameproof Version; max. 110 dB(A) @ 1 m / 5 J		•	•		•	•	YL6S	652	YL6SA
Combines Audible and Visual Signalling Devices - Flameproof Version; max. 110 dB(A) @ 1 m / 5 J		•	•		•	•	YL60	656	YL60A
Audible Signalling Devices									
Audible Signalling Devices - Explosion Protected; max. 105 dB(A) @ 1 m		•	•		•	•	8491	672	8491A
Audible Signalling Devices - Flameproof Version; max. 100 dB(A) @ 1 m			•			•	YA11	669	YA11A
Audible Signalling Devices - Flameproof Version; max. 110 dB(A) @ 1 m		•	•		•	•	YA6S	663	YA6SA
Audible Signalling Devices - Flameproof Version; max. 110 dB(A) @ 1 m		•	•		•	•	YA60	666	YA60A
Audible Signalling Devices - Flameproof Version; max. 115 dB(A) @ 1 m		•	•		•	•	YA90	660	YA90A
Audible Signalling Devices - Hazardous Area Loudspeaker		•	•		•	•	8494	675	8494A
Control Devices									
Manual Call Point - Flameproof Version		•	•		•	•	MCP	705	MCPA
Visual Signalling Devices									
Visual Signalling Devices - Flameproof Version; LED		•	•		•	•	FX15	683	FX15A
Visual Signalling Devices - Flameproof Version; Xenon 5, 10, 20 J		•	•		•	•	FL60	691	FL60B
Visual Signalling Devices - Flameproof Version; Xenon 5 J		•	•		•	•	FL6S	679	FL6SA
Visual Signalling Devices - Flameproof Version; Xenon 5 J		•	•		•	•	FX15	686	FX15B
Visual Signalling Devices - Flameproof Version with Ex e Connection Chamber		•	•		•	•	6162	700	6162A
Xenon Strobe, 5 Joule - Flameproof Version with Ex e Connection Chamber		•	•		•	•	6161	696	6161A

For additional products and information please refer to r-stahl.com



- Corrosion-resistant, GRP Ex d enclosure
- Omnidirectional sounder max. 110 dB(A) @ 1 m
- 5 Joule xenon strobe
- 3-stage alarm (DC) / 2-stage alarm, operate independently of each other
- Each with 32 selectable tones in accordance with international regulations
- Independent tone selection using a DIL switch for each pitch
- Volume control with 18 dB(A) adjustment
- Xenon strobe with light enhancing fresnel lens
- Flash rate 1 Hz
- IP66 & IP67
- Lightweight (4.4 kg)

WebCode **YL6SA**



Yodalex Super Series

Product Series YL6S is designed to provide both an audible and visual alarm which can be used to alert, warn or draw attention to machine malfunction/start up or any number of safety related issues. The audible and visual signals can be operated independently or as a combination unit. Corrosion resistance is a key feature of the device which is ideally suited for applications in the harshest of environments both onshore and offshore.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Pitch Certificates	2 ATEX (BAS), IECEx (BAS)								
Lens colour	Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg		
Blue	115 - 115 V	-	280 mA	YL6S/C-L-050-B-EN-SF-A-ST-00-00-00	225106	80	4.440		
	230 - 230 V	-	115 mA	YL6S/C-N-050-B-EN-SF-A-ST-00-00-00	225114	80	4.440		
Clear	115 - 115 V	-	280 mA	YL6S/C-L-050-C-EN-SF-A-ST-00-00-00	225101	80	4.440		
	230 - 230 V	-	115 mA	YL6S/C-N-050-C-EN-SF-A-ST-00-00-00	225109	80	4.440		
Green	230 - 230 V	-	115 mA	YL6S/C-N-050-G-EN-SF-A-ST-00-00-00	225115	80	4.440		
Orange	115 - 115 V	-	280 mA	YL6S/C-L-050-A-EN-SF-A-ST-00-00-00	225105	80	4.440		
	230 - 230 V	-	115 mA	YL6S/C-N-050-A-EN-SF-A-ST-00-00-00	225113	80	4.440		
Red	115 - 115 V	-	280 mA	YL6S/C-L-050-R-EN-SF-A-ST-00-00-00	225104	80	4.440		
	230 - 230 V	-	115 mA	YL6S/C-N-050-R-EN-SF-A-ST-00-00-00	225112	80	4.440		
Yellow	115 - 115 V	-	280 mA	YL6S/C-L-050-Y-EN-SF-A-ST-00-00-00	225103	80	4.440		
	230 - 230 V	-	115 mA	YL6S/C-N-050-Y-EN-SF-A-ST-00-00-00	225111	80	4.440		

E5

Combines Audible and Visual Signalling Devices

Series YL6S - Flameproof Version; max. 110 dB(A) @ 1 m / 5 J

STAHL

Selection Table							
Pitch Certificates		3 ATEX (BAS), IECEx (BAS)					
Lens colour	Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg
Blue	-	24 – 24 V	600 mA	YL6S/C-D-050-B-EN-SF-A-ST-00-00-00	225078	80	4.440
Clear	-	24 – 24 V	600 mA	YL6S/C-D-050-C-EN-SF-A-ST-00-00-00	225072	80	4.440
		48 – 48 V	420 mA	YL6S/C-F-050-C-EN-SF-A-ST-00-00-00	225081	80	4.440
Green	-	24 – 24 V	600 mA	YL6S/C-D-050-G-EN-SF-A-ST-00-00-00	225079	80	4.440
Orange	-	24 – 24 V	600 mA	YL6S/C-D-050-A-EN-SF-A-ST-00-00-00	225076	80	4.440
		48 – 48 V	420 mA	YL6S/C-F-050-A-EN-SF-A-ST-00-00-00	225087	80	4.440
Red	-	24 – 24 V	600 mA	YL6S/C-D-050-R-EN-SF-A-ST-00-00-00	225075	80	4.440
		48 – 48 V	420 mA	YL6S/C-F-050-R-EN-SF-A-ST-00-00-00	225086	80	4.440
Yellow	-	24 – 24 V	600 mA	YL6S/C-D-050-Y-EN-SF-A-ST-00-00-00	225074	80	4.440
		48 – 48 V	420 mA	YL6S/C-F-050-Y-EN-SF-A-ST-00-00-00	225084	80	4.440
Pitch Certificates		3 EAC (Sertium), Russian Federation (TPB SER)					
Lens colour	Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg
Red	-	24 – 24 V	600 mA	YL6S/C-D-050-R-RU-SF-A-ST-00-00-00	262796	80	4.440

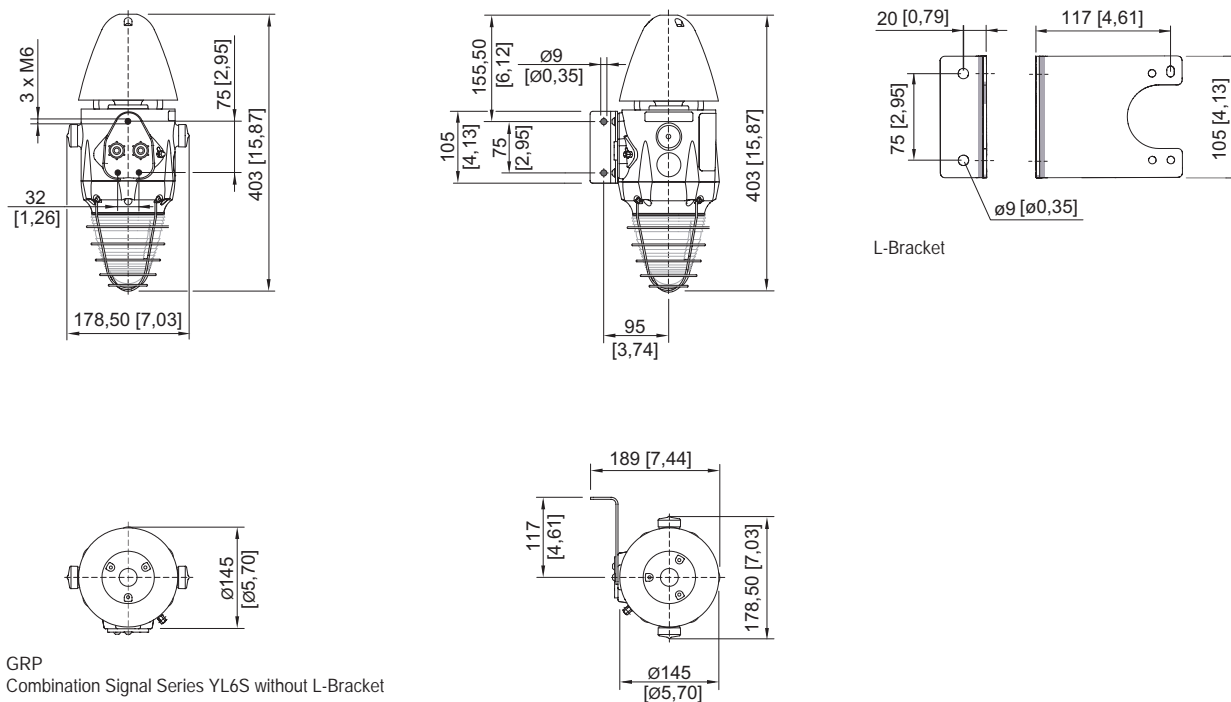
Additional gas group variants and local certifications are available; please use the selection table online at r-stahl.com. WebCode YL6SA
The tone table can be found online at r-stahl.com.

Technical Data		
Variant	YL6S/.....-EN	YL6S/.....-RU
Explosion Protection		
Gas explosion protection IECEx	Ex d IIC T5 Gb	
Gas explosion protection ATEX	Ⓔ II 2 G Ex d IIC T5 Gb	
Gas explosion protection EAC		1 Ex d IIC/IB T5 Gb 1 Ex d IIC/IB T4 Gb
Dust explosion protection IECEx	Ex tb IIIC T95 °C Db	
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T95 °C Db	
Dust explosion protection EAC		1 Ex tb IIIC T95°C Db 1 Ex tb IIIC T110°C Db
Gas explosion protection IECEx 2	Ex d IIC T4 Gb	
Gas explosion protection ATEX 2	Ⓔ II 2 G Ex d IIC T4 Gb	
Dust explosion protection IECEx 2	Ex tb IIIC T110 °C Db	
Dust Explosion Protection ATEX 2	Ⓔ II 2 D Ex tb IIIC T110 °C Db	
Electrical Data		
Line monitoring	Yes	Yes
Tolerance	-10 – 10 %	-10 – 10 %
Acoustic Data		
Sound pressure level	max. 110 dB(A) @ 1m	max. 110 dB(A) @ 1m
Tone selection	Via DIL switch	Via DIL switch
Volume control	18 dB (A) adjustment	18 dB (A) adjustment

E5

Technical Data		
Variant	YL6S/-...-EN	YL6S/-...-RU
Ambient Conditions		
Ambient temperature	-60 °C ... +40 °C (For T5) -60 °C ... +55 °C (For T4)	-60 °C ... +40 °C (For T5) -60 °C ... +55 °C (For T4)
Operating temperature	-40 °C ... +45 °C	-50 °C ... +55 °C
Lighting Data		
Lamp	Xenon flash tubes	Xenon flash tubes
Flashbulb	5 J	5 J
Flash rate	1 Hz	1 Hz
Mechanical Data		
Degree of protection IP (IEC 60529)	IP66/IP67	IP66/IP67
Enclosure material	Polyester, Glass fibre reinforced	Polyester, Glass fibre reinforced
Material mounting parts	Stainless steel	Stainless steel
Trumpet material	ABS, flame retardant	ABS, flame retardant
Material dome	Polycarbonate, prismatic	Polycarbonate, prismatic
Material wire guard	Stainless steel	Stainless steel
Connection terminals solid max.	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²
Components		
Drilled holes	2 x M20	2 x M20
Stopping plug	2 x dust cap	2 x dust cap
You can find more technical data online at r-stahl.com . WebCode YL6SA		
A lens wire guard (VA) and bracket (VA) are supplied as standard.		

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



E5

Combines Audible and Visual Signalling Devices

Series YL6S - Flameproof Version; max. 110 dB(A) @ 1 m / 5 J

STAHL

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Cable glands made of metal			
	Ex d & Ex e cable gland for all types of unarmoured and braided cables (nickel plated brass)	243464	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braided cables (nickel plated brass)	109441	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	0.200
	Ex d & Ex e cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass) with unique compensating displacement seal system (CDS)	246561	0.280
Flange			
	Flange assembly standard, amber	243407	1.190
	Flange assembly standard, blue	243406	1.190
	Flange assembly standard, clear	223578	1.190
	Flange assembly standard, green	243405	1.190
	Flange assembly standard, red	243408	1.190
	Flange assembly standard, opal	243410	1.190
	Flange assembly standard, yellow	243409	1.190
Mounting accessories			
	Bracket assembly kit accessories made of stainless steel; long version	247371	0.280
PCB			
	PCB assembly 110 V AC 5J, for 5 Joule Xenon flashing beacons	223632	0.118
	PCB assembly 230 V AC 5J, for 5 Joule Xenon flashing beacons	223580	0.100
	PCB assembly 24 V DC 5J, for 5 Joule Xenon flashing beacons	223635	0.080
PCB termination			
	PCB assembly termination, for 5 Joule Xenon beacon only	223579	0.020
Xenon tube			
	Replacement xenon tube assembly	223636	0.006

E5



- Ex d enclosure made from seawater-resistant aluminium
- Omnidirectional high output sounder 110 dB(A) @ 1 m
- 5 Joule xenon strobe
- 2 stage alarm, independently selectable 2nd stage
- Each with 32 selectable tones in accordance with international regulations
- Independent tone selection using a DIL switch for each pitch
- Aluminium enclosure with stainless steel fasteners
- Flash rate 1 per second
- IP66 rated as standard / NEMA 4X (for UL variants)
- Telephone initiate option available

WebCode **YL60A**



Yodalex range

Product Series YL60 is designed to provide both an audible and visual alarm which can be used to alert, warn or draw attention to machine malfunction/start up or any number of safety related issues in hazardous areas.

The audible and visual signals can be operated independently or as a combination unit.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Ex interface						
Installation in		•	•		•	•

	NEC 505 Class I			NEC 506		
Zone	0	1	2	20	21	22
Ex interface		•	•		•	•
Installation in		•	•		•	•

	NEC 500					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•	•	•	•		
Installation in	•	•	•	•		

Selection Table

Certificates								ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO), Korea (KTL), SIL (exida), Taiwan (ITRI)							
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Lens colour	Product Type	Art. No.	PS	Weight kg								
115 – 115 V	-	200 mA	Orange	YL60/C/L50/A/EU	205267 ▲	80	6.000								
		200 mA	Blue	YL60/C/L50/B/EU	205268	80	6.000								
		200 mA	Green	YL60/C/L50/G/EU	205269	80	6.000								
		200 mA	Opal	YL60/C/L50/O/EU	205270	80	6.000								
		200 mA	Red	YL60/C/L50/R/EU	205271 ▲	80	6.000								
		200 mA	Yellow	YL60/C/L50/Y/EU	205464	80	6.000								
230 – 230 V	-	100 mA	Orange	YL60/C/N50/A/EU	205273 ▲	80	6.000								
		100 mA	Blue	YL60/C/N50/B/EU	205277	80	6.000								
		100 mA	Clear	YL60/C/N50/C/EU	205279	80	6.000								
		100 mA	Opal	YL60/C/N50/O/EU	205281	80	6.000								
		100 mA	Red	YL60/C/N50/R/EU	205282 ▲	80	6.000								
		100 mA	Yellow	YL60/C/N50/Y/EU	205285	80	6.000								
-	24 – 24 V	570 mA	Orange	YL60/C/D50/A/EU	205250 ▲	80	6.000								
		570 mA	Blue	YL60/C/D50/B/EU	205252	80	6.000								
		570 mA	Clear	YL60/C/D50/C/EU	205254	80	6.000								
		570 mA	Green	YL60/C/D50/G/EU	205256	80	6.000								
		570 mA	Red	YL60/C/D50/R/EU	205257 ▲	80	6.000								
		570 mA	Yellow	YL60/C/D50/Y/EU	206950	80	6.000								

E5

Combines Audible and Visual Signalling Devices

Series YL60 - Flameproof Version; max. 110 dB(A) @ 1 m / 5 J

STAHL

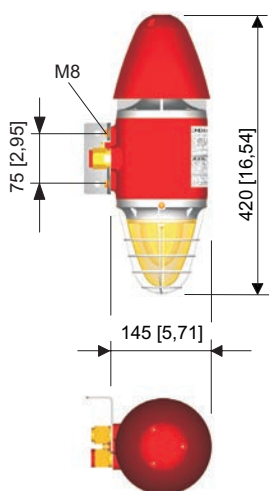
Selection Table							
Certificates		ATEX (BAS), EAC (TehnoP), India (PESO), Russian Federation (TPB SER)					
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Lens colour	Product Type	Art. No.	PS	Weight kg
115 – 115 V	-	200 mA	Orange	YL60/C/L50/A/RU	212390	80	6.000
		200 mA	Red	YL60/C/L50/R/RU	205272	80	6.000
230 – 230 V	-	100 mA	Orange	YL60/C/N50/A/RU	212391	80	6.000
		100 mA	Red	YL60/C/N50/R/RU	212392	80	6.000
-	24 – 24 V	570 mA	Orange	YL60/C/D50/A/RU	212389	80	6.000
		570 mA	Blue	YL60/C/D50/B/RU	262033	80	6.000
		570 mA	Red	YL60/C/D50/R/RU	205265	80	6.000
Certificates		India (PESO), USA (UL)					
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Lens colour	Product Type	Art. No.	PS	Weight kg
115 – 115 V	-	200 mA	Orange	YL60/B/L50/A/UL	205568	80	6.000
		200 mA	Blue	YL60/B/L50/B/UL	205298	80	6.000
		200 mA	Clear	YL60/B/L50/C/UL	224224	80	6.000
		200 mA	Green	YL60/B/L50/G/UL	239987	80	6.000
		200 mA	Red	YL60/B/L50/R/UL	205299	80	6.000
		200 mA	Yellow	YL60/B/L50/Y/UL	211815	80	6.000
230 – 230 V	-	100 mA	Orange	YL60/B/N50/A/UL	205301	80	6.000
		100 mA	Clear	YL60/B/N50/C/UL	250450	80	6.000
		100 mA	Red	YL60/B/N50/R/UL	212386	80	6.000
-	24 – 24 V	570 mA	Orange	YL60/B/D50/A/UL	205287	80	6.000
		570 mA	Blue	YL60/B/D50/B/UL	205289	80	6.000
		570 mA	Clear	YL60/B/D50/C/UL	205291	80	6.000
		570 mA	Red	YL60/B/D50/R/UL	205293	80	6.000
		570 mA	Yellow	YL60/B/D50/Y/UL	205297	80	6.000

E5

Technical Data			
Variant	YL60/I...I/EU	YL60/I...I/RU	YL60/I...I/UL
Explosion Protection			
Ambient temperature °C	-20 ... +40 °C	-20 ... +40 °C	-20 ... +60 °C
Gas explosion protection IECEx	Ex d IIB+H2 T6 Gb		Ex d IIB+H2 T4 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex d IIB+H2 T6 Gb		⊕ II 2 G Ex d IIB+H2 T4 Gb
Gas explosion protection EAC		1 Ex d IIB+H2 T4 Gb X 1 Ex d IIB+H2 T6 Gb X	
Dust explosion protection IECEx	Ex tb IIIC T85 °C Db		Ex tb IIIC T135 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T85 °C Db		⊕ II 2 D Ex tb IIIC T135 °C Db
Dust explosion protection EAC		Ex tb IIIC T135 °C Db X Ex tb IIIC T85 °C Db X	
Acoustic Data			
Sound pressure level	max. 110 dB(A) @ 1m	max. 110 dB(A) @ 1m	max. 110 dB(A) @ 1m
Tone selection	Via DIL switch	Via DIL switch	Via DIL switch
Pitch	2	2	2
Lighting Data			
Lamp	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes
Flashbulb	5 J	5 J	5 J
Flash rate	1 Hz	1 Hz	1 Hz

Technical Data			
Variant	YL60/./.../EU	YL60/./.../RU	YL60/./.../UL
Mechanical Data			
Degree of protection IP (IEC 60529)	IP66	IP66	IP66
Enclosure material	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant
Material mounting parts	Sheet steel, powder-coated	Sheet steel, powder-coated	Sheet steel, powder-coated
Enclosure colour	red normal	red normal	red normal
Trumpet material	ABS, flame retardant	ABS, flame retardant	ABS, flame retardant
Material dome	Polycarbonate	Polycarbonate	Polycarbonate
Material wire guard	Round structural steel, galvanised	Round structural steel, galvanised	Round structural steel, galvanised
Connection terminals solid max.	2.5 mm ²	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²	2.5 mm ²
Mounting / Installation			
Connection type	Screw terminal	Screw terminal	Screw terminal
Components			
Drilled holes	2 x M20	2 x M20	2 x M20
Screw connections	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	1 x dust cap 1 x M20 x 1.5	1 x M20 x 1.5 1 x dust cap	2x1/2"NPT adaptor M20x1/2"NPT
Stopping plug material	Brass	Brass	Brass
You can find more technical data online at r-stahl.com . WebCode YL60A			

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations






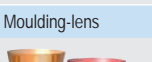



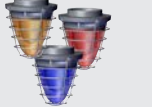


E5

Combines Audible and Visual Signalling Devices

Series YL60 - Flameproof Version; max. 110 dB(A) @ 1 m / 5 J

STAHL

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Cable glands			
	Ex e adapter for ATEX - 20 °C to +50/60 °C	264252	0.270
Cable glands made of metal			
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	0.200
	Ex d & Ex e cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass) with unique compensating displacement seal system (CDS)	246561	0.280
Moulding-lens			
	clear	209402	0.070
	red	209405	0.070
	yellow	209406	0.070
Mounting bracket			
	Stainless steel bracket fixing kit accessories	210794	0.400
Emergency light flange			
	amber ATEX spare	209407	1.080
	amber UL spare	209421	1.080
	blue ATEX spare	209408	1.080
	blue UL spare	209422	1.080
	clear UL spare	209423	1.080
	green UL spare	209424	1.080
	red ATEX spare	209412	1.080
	red UL spare	209426	1.080
	yellow ATEX spare	209413	1.080

E5



- Corrosion-resistant, GRP Ex d enclosure
- Max sound output 115 dB(A) @ 1 m
- 2 stage alarm, independently selectable 2nd stage
- Each with 32 selectable tones in accordance with international regulations
- Independent tone selection using a DIL switch for each pitch
- IP66 rated as standard
- Monitoring facility (DC voltages only)

WebCode **YA90A**



Yodalex range

Directional audible signal designed for use in hazardous or harsh environments.

	ATEX / IECEx						NEC 500						
	Zone		Ex interface		Installation in		Division		Ex interface		Installation in		
Zone	0	1	2	20	21	22	Division	1	2	1	2	1	2
Ex interface							Ex interface		•				
Installation in		•	•		•	•	Installation in						







Selection Table

Certificates ATEX (BAS), Brazil (ULB), China (CQST), IECEx (BAS), India (PESO), Korea (KGS)							
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg	
115 – 115 V	–	0.08 A	YA90/C-L-EN-RN-ST-00-00-00	206770	80	4.500	
230 – 230 V	–	0.045 A	YA90/C-N-EN-RN-ST-00-00-00	205214 ▲	80	4.500	
–	24 – 24 V	0.3 A	YA90/C-D-EN-RN-ST-00-00-00	205209 ▲	80	4.500	
Certificates Canada / USA (UL), India (PESO)							
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg	
115 – 115 V	–	0.13 A	YA90/C-L-UL-RN-ST-00-00-00	205366 ▲	80	4.500	
230 – 230 V	–	0.09 A	YA90/C-N-UL-RN-ST-00-00-00	212397 ▲	80	4.500	
–	24 – 24 V	0.5 A	YA90/C-D-UL-RN-ST-00-00-00	205365	80	4.500	
Certificates EAC (TehnoP), India (PESO), Russian Federation (TPB SER)							
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg	
115 – 115 V	–	0.08 A	YA90/C-L-RU-RN-ST-00-00-00	212399	80	4.500	
230 – 230 V	–	0.045 A	YA90/C-N-RU-RN-ST-00-00-00	205217	80	4.500	
–	24 – 24 V	0.3 A	YA90/C-D-RU-RN-ST-00-00-00	206661	80	4.500	

Variations in gas group, voltage and certification are available
Tag labels can be added, please contact your local sales office for more details

E5

Technical Data			
Variant	YA90/-.-EN	YA90/-.-RU	YA90/-.-UL
Explosion Protection			
Ambient temperature °C	-60 ... +60 °C	-60 ... +60 °C	-60 ... +66 °C
Gas explosion protection IECEx	Ex d IIC T6 Gb	Ex d IIC T6 Gb	
Gas explosion protection ATEX	Ⓔ II 2 G Ex d IIC T6 Gb	Ⓔ II 2 G Ex d IIC T6 Gb	
Gas explosion protection EAC		1 Ex d IIC T6 Gb X	
Dust explosion protection IECEx	Ex tb IIIC TT85 °C Db	Ex tb IIIC TT85 °C Db	
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC TT85 °C Db	Ⓔ II 2 D Ex tb IIIC TT85 °C Db	
Dust explosion protection EAC		Ex tb IIIC T85 °C Db X	
Electrical Data			
Tolerance	-10 – 10 %	-10 – 10 %	-10 – 10 %
Acoustic Data			
Sound pressure level	max. 115 dB(A) @ 1m	max. 115 dB(A) @ 1m	max. 115 dB(A) @ 1m
Tone selection	Via DIL switch	Via DIL switch	Via DIL switch
Pitch	2	2	2
Mechanical Data			
Degree of protection IP (IEC 60529)	IP66	IP66	IP66
Enclosure material	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced
Material mounting parts	1.4404 stainless steel	1.4404 stainless steel	1.4404 stainless steel
Trumpet material	ABS, flame retardant	ABS, flame retardant	ABS, flame retardant
Enclosure colour	Red (RAL 3001)	Red (RAL 3001)	Red (RAL 3001)
Mounting / Installation			
Connection type	Screw terminal	Screw terminal	Screw terminal
Components			
Drilled holes	2 x M20	2 x M20	2 x M20
Screw connections	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	1 x M20 x 1.5 1 x dust cap	1 x M20 x 1.5 1 x dust cap	2x1/2"NPT adaptor M20x1/2"NPT
Stopping plug material	Brass	Brass	Brass
You can find more technical data online at r-stahl.com . WebCode YA90A			

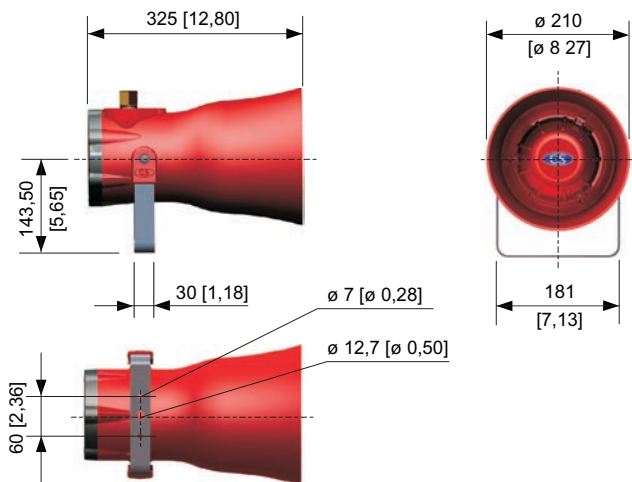
Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Cable glands made of metal			
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	0.200
	Ex d & Ex e cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass) with unique compensating displacement seal system (CDS)	246561	0.280

Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Mounting bracket			
	U-bracket 1.4404	224587	0.450

Stainless steel mounting bracket provided. Holes to suit M6, pitch 60 mm.

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations





- Corrosion-resistant, GRP Ex d enclosure
- Omnidirectional sounder max. 110 dB(A) @ 1 m
- 3-stage alarm (DC) / 2-stage alarm, operate independently of each other
- Each with 32 selectable tones in accordance with international regulations
- Independent tone selection using a DIL switch for each pitch
- Volume control with 18 dB adjustment
- Blocking diode for line monitoring
- IP66 & IP67
- Lightweight (3.64 kg)

WebCode **YA6SA**



Yodalex Super Series

Product series YA6S is designed to provide an audible alarm which can be used to alert, warn or draw attention to machine malfunction/start up or any number of safety related issues. Corrosion resistance is a key feature of the device which is ideally suited for applications in the harshest of environments both onshore and offshore.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table						
Pitch Certificates	2 ATEX (BAS), IECEx (BAS)					
Rated operational current	Rated operational voltage AC	Rated operational voltage DC	Product Type	Art. No.	PS	Weight kg
0.04 A	230 – 230 V	–	YA6S/C-N-EN-SF-A-ST-00-00-00	225185	80	3.640
0.076 A	115 – 115 V	–	YA6S/C-L-EN-SF-A-ST-00-00-00	225184	80	3.640
Pitch Certificates	3 Gas explosion protection EAC Dust explosion protection EAC ATEX (BAS), EAC (Sertium), IECEx (BAS), Russian Federation (TPB SER)					
Rated operational current	Rated operational voltage AC	Rated operational voltage DC	Product Type	Art. No.	PS	Weight kg
0.28 A	–	24 – 24 V	YA6S/C-D-RU-SF-A-ST-00-00-00	256351	80	3.640
Pitch Certificates	3 ATEX (BAS), IECEx (BAS)					
Rated operational current	Rated operational voltage AC	Rated operational voltage DC	Product Type	Art. No.	PS	Weight kg
0.25 A	–	48 – 48 V	YA6S/C-F-EN-SF-A-ST-00-00-00	225183	80	3.640
0.28 A	–	24 – 24 V	YA6S/C-D-EN-SF-A-ST-00-00-00	225182	80	3.640
Additional gas groups and voltage variants are available; please use the selection table online at r-stahl.com. WebCode YA6SA The tone table is available on the Internet at r-stahl.com.						




E5

Technical Data



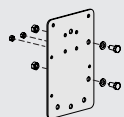

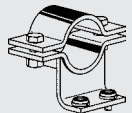
Variant	Pitch 2	Pitch 3
Explosion Protection		
Ambient temperature °C	-60 ... +60 °C	-60 ... +70 °C
Gas explosion protection IECEx	Ex d IIC T6 Gb	Ex d IIC T6 Gb
Gas explosion protection ATEX	Ⓜ II 2 G Ex d IIC T6 Gb	Ⓜ II 2 G Ex d IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T77 °C Db	Ex tb IIIC T75 °C Db
Dust explosion protection ATEX	Ⓜ II 2 D Ex tb IIIC T77 °C Db	Ⓜ II 2 D Ex tb IIIC T75 °C Db
Ambient temperature °C 2	-60 ... +70 °C	
Gas explosion protection IECEx 2	Ex d IIC T5 Gb	
Gas explosion protection ATEX 2	Ⓜ II 2 G Ex d IIC T5 Gb	
Dust explosion protection IECEx 2	Ex tb IIIC T87 °C Db	
Dust Explosion Protection ATEX 2	Ⓜ II 2 D Ex tb IIIC T87 °C Db	
Electrical Data		
Line monitoring	Yes	Yes
Tolerance	-10 - 10 %	-10 - 10 %
Acoustic Data		
Sound pressure level	max. 110 dB(A) @ 1m	max. 110 dB(A) @ 1m
Tone selection	Via DIL switch	Via DIL switch
Volume control	18 dB (A) adjustment	18 dB (A) adjustment
Ambient Conditions		
Operating temperature	-40 °C ... +60 °C	-60 °C ... +70 °C
Mechanical Data		
Enclosure material	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced
Material mounting parts	Stainless steel	Stainless steel
Trumpet material	ABS, flame retardant	ABS, flame retardant
Connection terminals solid max.	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²
Degree of protection IP (IEC 60529)	IP66/IP67	IP66/IP67
Enclosure colour	Black	Black
Mounting / Installation		
Connection type	Screw terminal	Screw terminal
Components		
Drilled holes	2 x M20	2 x M20
Screw connections	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	2 x dust cap	2 x dust cap

You can find more technical data online at r-stahl.com. WebCode YA6SA

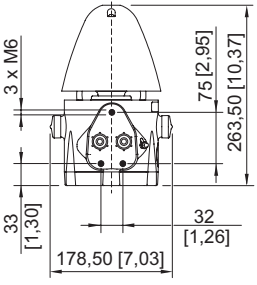
Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Cable glands made of metal			
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	0.240

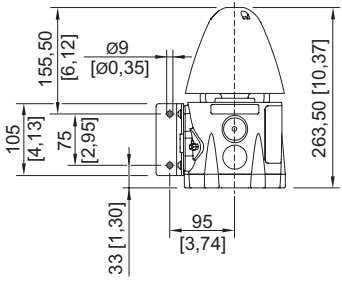
Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Cable glands made of metal			
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	0.200
	Ex d & Ex e cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass) with unique compensating displacement seal system (CDS)	246561	0.280
Fixed adaptor			
	Adaptor plate for use in combination with pipe clamps	256519	0.630
Mounting accessories			
	Bracket assembly kit accessories made of stainless steel; long version	247371	0.280
Pipe clamp			
	R 1 1/2"	120819	0.470
	R 1 1/4"	120812	0.500
	R 2"	120823	0.500

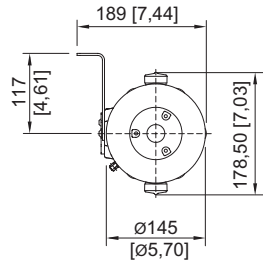
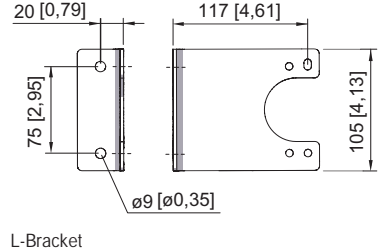
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



GRP Audible Signal Series YA6S without L-Bracket



GRP Audible Signal Series YA6S with L-Bracket



E5



- Ex d enclosure made from seawater-resistant aluminium
- Omnidirectional high output sounder 110 dB(A) @ 1 m
- 2 stage alarm, independently selectable 2nd stage
- Each with 32 selectable tones in accordance with international regulations
- Independent tone selection using a DIL switch for each pitch
- IP66 rated as standard / NEMA 4X (for UL variants)
- Telephone initiate option available

WebCode **YA60A**



Yodalex range

Product Series YA60 is designed to provide a audible alarm which can be used to alert, warn or draw attention to machine malfunction/start up or any number of safety related issues in hazardous areas. Omnidirectional audible signal designed for use in hazardous or harsh environments.

ATEX / IECEx		NEC 505			NEC 506			NEC 500						
		Class I						Class I		Class II		Class III		
Zone	0 1 2 20 21 22	0	1	2	20	21	22	Division	1	2	1	2	1	2
Ex interface			•	•		•	•	Ex interface	•	•	•	•		
Installation in		•	•		•	•		Installation in	•	•	•	•		

Selection Table

Certificates ATEX (BAS), EAC (TehnoP), Russian Federation (TPB SER)							
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg	
115 – 115 V	–	0.11 A	YA60/C/L/RU	212395	80	5.400	
230 – 230 V	–	0.055 A	YA60/C/N/RU	212396	80	5.400	
–	24 – 24 V	0.35 A	YA60/C/D/RU	205198	80	5.400	
Certificates ATEX (BAS), IECEx (BAS), Korea (KTL), Taiwan (ITRI)							
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg	
115 – 115 V	–	0.11 A	YA60/C/L/EU	205199▲	80	5.400	
230 – 230 V	–	0.055 A	YA60/C/N/EU	205200▲	80	5.400	
–	24 – 24 V	0.35 A	YA60/C/D/EU	205191▲	80	5.000	
Certificates USA (UL)							
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg	
115 – 115 V	–	0.11 A	YA60/B/L/UL	205204	80	5.400	
230 – 230 V	–	0.055 A	YA60/B/N/UL	207054	80	5.400	
–	24 – 24 V	0.35 A	YA60/B/D/UL	205202	80	5.400	

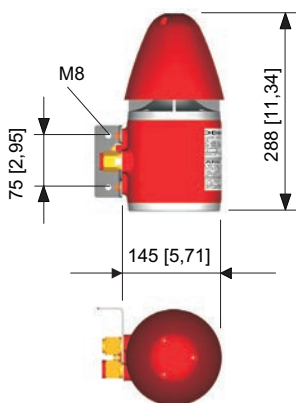
Further variations in gas group, flash energy, voltage and lens colour are available, please use the selection table on the internet at r-stahl.com. WebCode YA60A

E5

Technical Data			
Variant	YA60/.J/EU	YA60/C./RU	YA60/.J/UL
Explosion Protection			
Ambient temperature °C	-20 ... +40 °C	-20 ... +40 °C	-20 ... +60 °C
Gas explosion protection IECEx	Ex d IIB+H2 T6 Gb		Ex d IIB+H2 T4 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex d IIB+H2 T6 Gb		Ⓔ II 2 G Ex d IIB+H2 T4 Gb
Gas explosion protection EAC		1 Ex d IIB+H2 T4 Gb X 1 Ex d IIB+H2 T6 Gb X	
Dust explosion protection IECEx	Ex tb IIIC T85 °C Db		Ex tb IIIC T135 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T85 °C Db		Ⓔ II 2 D Ex tb IIIC T135 °C Db
Dust explosion protection EAC		Ex tb IIIC T135 °C Db X Ex tb IIIC T85 °C Db X	
Ship approval	ABS		
Electrical Data			
Tolerance	-10 - 10 %	-10 - 10 %	-10 - 10 %
Acoustic Data			
Sound pressure level	max. 110 dB(A) @ 1m	max. 110 dB(A) @ 1m	max. 110 dB(A) @ 1m
Tone selection	Via DIL switch	Via DIL switch	Via DIL switch
Pitch	2	2	2
Mechanical Data			
Degree of protection IP (IEC 60529)	IP66	IP66	IP66
Enclosure material	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant
Material mounting parts	Sheet steel, powder-coated	Sheet steel, powder-coated	Sheet steel, powder-coated
Trumpet material	ABS, flame retardant	ABS, flame retardant	ABS, flame retardant
Connection terminals solid max.	2.5 mm ²	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²	2.5 mm ²
Enclosure colour	red normal	red normal	red normal
Components			
Drilled holes	2 x M20	2 x M20	2 x M20
Screw connections	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	1 x M20 x 1.5 1 x dust cap	1 x M20 x 1.5 1 x dust cap	2x1/2"NPT adaptor M20x1/2"NPT
Stopping plug material	Brass	Brass	Brass
You can find more technical data online at r-stahl.com . WebCode YA60A			
Mounting bracket supplied as standard.			

E5

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Cable glands made of metal			
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	0.200
	Ex d & Ex e cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass) with unique compensating displacement seal system (CDS)	246561	0.280
Mounting bracket			
	Stainless steel bracket fixing kit accessories	210794	0.400



- Ex d enclosure made from seawater-resistant aluminium
- Max. sound output 100 dB(A) @ 1 m
- Single stage alarm
- 32 sound tones available meeting international regulations
- Low profile (28 mm) light weight aluminium enclosure
- 3 metre (118") 2 core pre wired cable fitted and prepared ready for installation
- Panel sealing gasket and fixings provided
- Low current consumption
- High performance red paint finish as standard
- IP66 rated as standard, NEMA 4X (for UL variants)
- Lightweight

WebCode **YA11A**



Yodalex range

Panel mount audible signal designed for use in hazardous or harsh environments

	ATEX / IECEx						NEC 500						
	Zone		Ex interface		Installation in		Class I		Class II		Class III		
Zone	0	1	2	20	21	22	Division	1	2	1	2	1	2
Ex interface							Ex interface		•		•	•	•
Installation in			•			•	Installation in		•		•	•	•

Selection Table					
Tone selection Certificates		According to the order ATEX (BAS), Canada / USA (UL), IECEx (BAS)			
Rated operational voltage DC	Product Type	Art. No.	PS	Weight kg	
24 - 24 V	YA11/1-D-..-RN	211439	80	1.600	

The customer must specify the desired tone when ordering.
 The tone cannot be changed by the customer.
 32 tones are available; see order number addition below, e.g. if tone 18 is desired, please use the order number YA11/1-D-18-RN.
 The tone table can be found online at r-stahl.com.

Technical Data	
Explosion Protection	
Ambient temperature °C	-40 ... +70 °C
Gas explosion protection IECEx	Ex nA IIC T4 Gc
Gas explosion protection ATEX	⊕ II 3 G Ex nA IIC T4 Gc
Dust explosion protection IECEx	Ex tc IIIC T90 °C Dc
Dust explosion protection ATEX	⊕ II 3 D Ex tc IIIC T90 °C Dc
Acoustic Data	
Sound pressure level	max. 100 dB(A) @ 1m
Pitch	1
Mechanical Data	
Enclosure material	Aluminium / ABS
Enclosure colour	Red (RAL 3001)
Material mounting parts	Stainless steel
Conductor length	3 m

E5

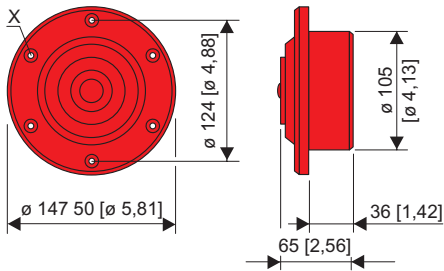
Technical Data

Mounting / Installation

Connection type ÖLFLEX150 QUATTRO/18AWG 2x1mm²

You can find more technical data online at r-stahl.com. WebCode YA11A

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Tone Table

Tone no.	Version	Frequency	Repetition rate (sec)	Special application
Tone 01	Alternate two-tone	800-1000	0.5	Fire alarms - Level crossing
Tone 02	Alternate two-tone	2500-3100	0.5	Security alarms
Tone 03	Alternate fast two-tone	800-1000	0.25	Increased urgency - Level crossing
Tone 04	Alternate fast two-tone	2500-3100	0.25	Security deterrent
Tone 05	Alternate two-tone	440-554	0.4/0.1	AFNOR, France
Tone 06	Alternate two-tone	430-470	1.0	
Tone 07	Alternate fast two-tone	800-1000	0.13	
Tone 08	Alternate fast two-tone	2500-3200	0.07	
Tone 09	Alternate two-tone	440-554	2.0	Turn out, Sweden
Tone 10	Continuous tone	700		All-clear, Sweden
Tone 11	Continuous tone	1000		
Tone 12	Continuous tone	1000		
Tone 13	Continuous tone	2300		
Tone 14	Continuous tone	440		
Tone 15	Interrupted tone	1000	2.0	
Tone 16	Interrupted tone	420	1.25	AS2220, Australia
Tone 17	Interrupted tone	1000	0.5	
Tone 18	Interrupted tone	2500	0.25	
Tone 19	Interrupted tone	2500	0.5	
Tone 20	Interrupted tone	700	6/12	Pre-vital message, Sweden
Tone 21	Interrupted tone	1000	1.0	
Tone 22	Interrupted tone	700	4.0	Air-raid alarm, Sweden
Tone 23	Interrupted tone	700	0.25	Local warning, Sweden
Tone 24	Interrupted tone	720	0.7/0.3	Industrial alarm, Germany
Tone 25	Interrupted, fast, rising volume	1400	0.25	
Tone 26	Fast siren	250-1200	0.085	
Tone 27	Rising constant, fall	1000	10/40/10	Industrial alarm, Germany
Tone 28	ISO 8201 Evacuation	800-1000	As standard	International evacuation alarm
Tone 29	Fast whoop	500-1000	0.15	
Tone 30	Slow whoop	500-1200	4.5	Evacuation, The Netherlands
Tone 31	Reverse sweep	1200-500	1.0	Evacuation, Germany
Tone 32	Siren	500-1200	3.0	



- Fixed signal tone
- Volume max. 105 dB(A) @ 1 m
- Installation by means of angle mounting
- AC and DC versions
- Signal horn Series 8491/1: with trumpet and connection cable
- Signal Horn Series 8491/2: compact design with connection chamber and cable gland

WebCode **8491A**



The signal horns Series 8491 are audio signalling devices designed to warn, call and indicate in hazardous areas.

They are made of a robust PC/ABS blend.

Installation is realised by means of angle mounting.

The versions of Series 8491/1 have been developed for use in areas with an explosive gas atmosphere.

They have a trumpet for optimum sound concentration as well as a connection cable.

The compact signal horns Series 8491/2 have a connection chamber and can be used indoors and outdoors in areas with explosive gas atmosphere.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E5

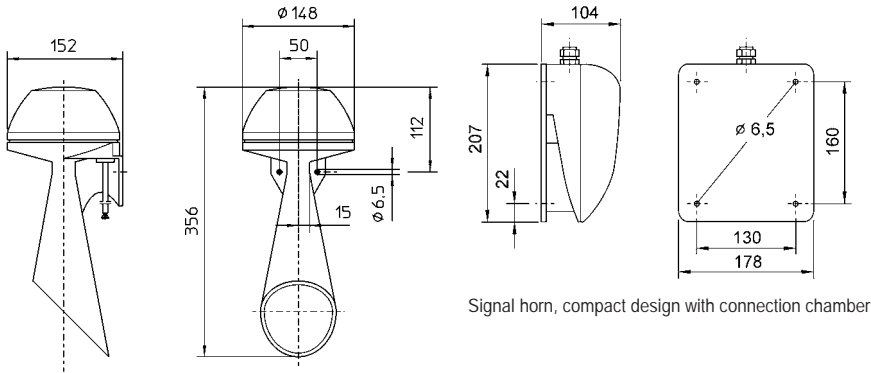
Selection Table							
Signal horn with trumpet							
Product variant	Rated operational voltage AC	Rated operational voltage DC	Safety nominal value	Product Type	Art. No.	PS	Weight kg
24 – 24 V	-	-	630 mA	8491/11-024-RU	247037 ▲	17	1.450
			630 mA	8491/11-024	145276 ▲	17	1.450
42 – 48 V	-	-	315 mA	8491/11-042-RU	247038 ▲	17	1.450
			315 mA	8491/11-042	145278 ▲	17	1.450
115 – 115 V	-	-	315 mA	8491/11-115-RU	247039 ▲	17	1.450
			315 mA	8491/11-115	145279	17	1.450
230 – 230 V	-	-	125 mA	8491/11-230-RU	247040 ▲	17	1.450
			125 mA	8491/11-230	145280 ▲	17	1.450
-	24 – 24 V	-	500 mA	8491/15-024-RU	247036 ▲	17	1.450
			500 mA	8491/15-024	145275 ▲	17	1.450
Signal horn, compact design with connection chamber							
Product variant	Rated operational voltage AC	Rated operational voltage DC	Safety nominal value	Product Type	Art. No.	PS	Weight kg
24 – 24 V	-	-	630 mA	8491/21-024-RU	247042 ▲	17	1.500
			630 mA	8491/21-024	145282 ▲	17	1.500

Selection Table						
Product variant						
Signal horn, compact design with connection chamber						
Rated operational voltage AC	Rated operational voltage DC	Safety nominal value	Product Type	Art. No.	PS	Weight kg
42 – 48 V	–	315 mA	8491/21-042-RU	247043 ▲	17	1.500
		315 mA	8491/21-042	145283 ▲	17	1.500
115 – 115 V	–	315 mA	8491/21-115-RU	247044 ▲	17	1.500
		315 mA	8491/21-115	145284	17	1.500
230 – 230 V	–	125 mA	8491/21-230-RU	247035 ▲	17	1.500
		125 mA	8491/21-230	145285 ▲	17	1.500
–	24 – 24 V	500 mA	8491/25-024-RU	247041 ▲	17	1.500
		500 mA	8491/25-024	145281 ▲	17	1.500

Technical Data		
Variant	8491/1	8491/2
Explosion Protection		
Ambient temperature °C	-40 ... +50 °C	-40 ... +50 °C
Gas explosion protection ATEX	⊕ II 2 G Ex mb IIC T5 Gb	⊕ II 2 G Ex e mb IIC T5 Gb
Gas explosion protection EAC	1 Ex mb IIC T5 Gb X, 1 Ex e mb IIC T5 Gb X	1 Ex mb IIC T5 Gb X, 1 Ex e mb IIC T5 Gb X
Dust explosion protection ATEX		⊕ II 2 D Ex tb IIIC T70 °C Db
Dust explosion protection EAC	Ex tb IIIC T70°C Db	Ex tb IIIC T70°C Db
Certificates	ATEX (BVS), EAC (STV)	ATEX (BVS), EAC (STV)
Acoustic Data		
Sound pressure level	max. 105 dB(A) @ 1m	max. 105 dB(A) @ 1m
Mechanical Data		
Degree of protection IP (IEC 60529)	IP55	IP65
Enclosure material	PC/ABS	PC/ABS
Trumpet material	PC/ABS	
Enclosure colour	Black	Black
Connection terminals solid max.		2.5 mm ²
Conductor length	3 m	
Mounting / Installation		
Connection type	LAPPTHERM 145, 2 x 0.75 mm ²	Screw terminal
Components		
Drilled holes		1 x M16
Screw connections		1 x M16 Ø 6.5 – 9.5 mm
You can find more technical data online at r-stahl.com. WebCode 8491A		

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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Signal horn with trumpet

Signal horn, compact design with connection chamber



- Max. sound pressure level 121 dB(A)
- Extreme temperature range -50 ... +60 °C
- Degree of protection IP66 & 67
- Corrosion-resistant enclosure made from antistatic polyamide
- Stainless steel fixings
- Ex e connection chamber
- Spring clamp terminals

WebCode **8494A**



25 or 15 Watt loudspeakers designed for use in hazardous areas and harsh environments. Series 8494 is constructed using antistatic polyamid which provides a light weight, robust, corrosion resistant enclosure. Options include wattage, impedance or a transformer variant with tapings at 25; 15; 6.5; 5; 2.5; 1.5 W to provide maximum flexibility for users.

The short flare version provides wide area sound dispersal in a compact enclosure. The long flare version gives increased sound pressure levels and audibility.

	ATEX / IECEx						NEC 505						NEC 506					
							Class I						Class II					
Zone	0	1	2	20	21	22												
Ex interface																		
Installation in		•	•		•	•												

Selection Table						
Flare size			Long flare			
Sound pressure level			max. 118 dB(A) @ 1m			
Figure	Impedance	Product Type	Art. No.	PS	Weight kg	
	8 Ω	8494/C-L-EN-ST-12-00	242310	80	2.800	
	20 Ω	8494/C-L-EN-ST-13-00	242311	80	2.800	
	-	8494/C-L-EN-ST-14-00	242312	80	2.800	
Flare size			Short flare			
Sound pressure level			max. 115 dB(A) @ 1m			
Figure	Impedance	Product Type	Art. No.	PS	Weight kg	
	8 Ω	8494/C-S-EN-ST-12-00	242300	80	2.200	
	20 Ω	8494/C-S-EN-ST-13-00	242301	80	2.200	
	-	8494/C-S-EN-ST-14-00	242302	80	2.200	

Technical Data	
Explosion Protection	
Ambient temperature °C	-50 ... +60 °C
Gas explosion protection IECEx	Ex de mb IIC T4 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex de mb IIC T4 Gb

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Technical Data

Explosion Protection

Gas explosion protection EAC	1 Ex d e mb IIB+H2 T4 Gb X 1 Ex d e mb IIC T4 Gb X
Dust explosion protection IECEx	Ex tb IIIC TT105 °C Db
Dust explosion protection ATEX	Ⓜ II 2 D Ex tb IIIC TT105 °C Db
Dust explosion protection EAC	1 Ex tb IIIC T105 °C Db X
Certificates	ATEX (PRE), EAC (Sertium), IECEx (PRE)

Electrical Data

Power	25 – 25 W
Frequency range	450 – 6000 Hz

Mechanical Data

Degree of protection IP (IEC 60529)	IP66/IP67
Enclosure material	Polyamide, antistatic
Enclosure colour	Black
Material mounting parts	Polyamide, antistatic
Trumpet material	Polyamide, antistatic
Connection terminals solid max.	4 mm ²
Connection terminals finely-stranded max.	4 mm ²

Mounting / Installation


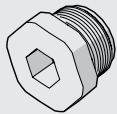
Connection type	Spring clamp terminal
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Components

Drilled holes	2 x M20
Screw connections	Can be ordered as accessories
Stopping plug	2 x dust cap

You can find more technical data online at r-stahl.com. WebCode 8494A

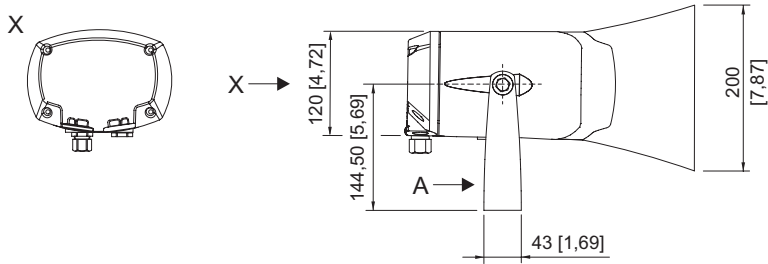
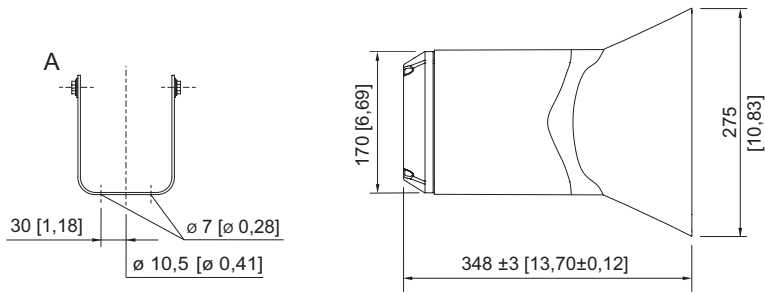
Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Cable gland			
	8161/7-M20-1304 4 ... 13 mm ² , 50 pieces (delivery lot*)	239156 ▲	0.013
Stopping plug			
	8290/3-M20, 100 pieces	143543 ▲	0.500
	8290/3-M20, 1 piece	143522	0.005

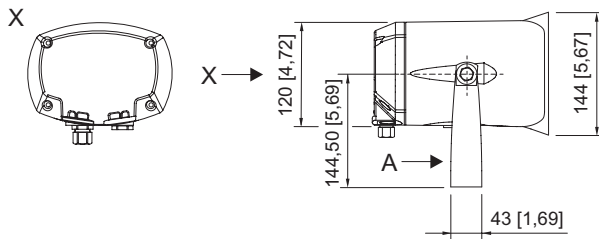
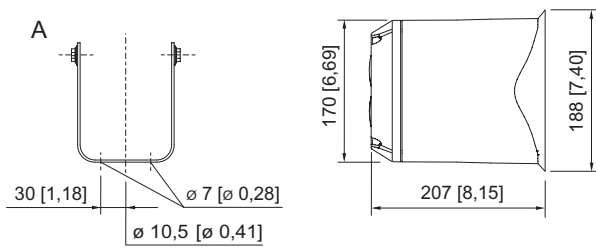
Bracket made of stainless steel available on request.

*) Purchase order quantity in [pieces], the delivery quantity is automatically rounded to the delivery lot.

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Hazardous Area Loudspeaker - Long Flare
Bracket (A) supplied as standard



Hazardous Area Loudspeaker - Short Flare
Bracket (A) supplied as standard

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Variations Type code: please fill in fields		Order Number
		8494 / - - - - - - - - - -
Gas group		
IIB + H	B	
IIC	C	
Flare		
short	S	
long	L	
Certification		
ATEX / IECEx / NEC / CEC 505	EN	
Company specification		
standard	ST	
Options		
15 W 8 Ω	10	
15 W 20 Ω	11	
25 W 8 Ω	12	
25 W 20 Ω	13	
25 W 100 V line transformer	14	
15 W 100 V line transformer	15	
6.5 W 100 V line transformer	16	
25 W 70 V line transformer	17	
15 W 70 V line transformer	18	
6.5 W 70 V line transformer	19	
Local certification		
standard	00	
EAC	01	



- Corrosion-resistant, GRP Ex d enclosure
- 5 Joule xenon flashing beacon
- Flash rate 1 Hz
- Extreme temperature range
- Light enhancing fresnel lens
- Blocking diode for line monitoring
- Stainless steel lens guard and bracket supplied as standard
- IP66 and IP67
- Lightweight (3.04 kg)

WebCode **FL6SA**



Yodalex Super Series. Product Series FL6S is designed to provide a visual alarm which can be used to alert, warn or draw attention to machine malfunction/start up or any number of safety related issues. Corrosion resistance is a key feature of the device which is ideally suited for applications in the harshest of environments both onshore and offshore.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table					
Rated operational voltage AC		115 – 115 V			
Lens colour	Product Type	Art. No.	PS	Weight kg	
Clear	FL6S/C-L-050-C-EN-SF-A-ST-00-00-00	225162	80	3.040	
Red	FL6S/C-L-050-R-EN-SF-A-ST-00-00-00	225165	80	3.040	
Yellow	FL6S/C-L-050-Y-EN-SF-A-ST-00-00-00	225164	80	3.040	
Rated operational voltage AC		230 – 230 V			
Lens colour	Product Type	Art. No.	PS	Weight kg	
Clear	FL6S/C-N-050-C-EN-SF-A-ST-00-00-00	225170	80	3.040	
Green	FL6S/C-N-050-G-EN-SF-A-ST-00-00-00	225176	80	3.040	
Orange	FL6S/C-N-050-A-EN-SF-A-ST-00-00-00	225174	80	3.040	
Red	FL6S/C-N-050-R-EN-SF-A-ST-00-00-00	225173	80	3.040	
Yellow	FL6S/C-N-050-Y-EN-SF-A-ST-00-00-00	225172	80	3.040	
Rated operational voltage DC		24 – 24 V			
Lens colour	Product Type	Art. No.	PS	Weight kg	
Blue	FL6S/C-D-050-B-EN-SF-A-ST-00-00-00	225151	80	3.040	
Clear	FL6S/C-D-050-C-EN-SF-A-ST-00-00-00	225146	80	3.040	
Green	FL6S/C-D-050-G-EN-SF-A-ST-00-00-00	225152	80	3.040	
Magenta	FL6S/C-D-050-M-EN-SF-A-ST-00-00-00	225153	80	3.040	
Opal	FL6S/C-D-050-O-EN-SF-A-ST-00-00-00	225147	80	3.040	
Orange	FL6S/C-D-050-A-EN-SF-A-ST-00-00-00	225150	80	3.040	

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Selection Table

Rated operational voltage DC		24 – 24 V		
Lens colour	Product Type	Art. No.	PS	Weight kg
Red	FL6S/C-D-050-R-EN-SF-A-ST-00-00-00	225149	80	3.040
Yellow	FL6S/C-D-050-Y-EN-SF-A-ST-00-00-00	225148	80	3.040
Rated operational voltage DC		48 – 48 V		
Lens colour	Product Type	Art. No.	PS	Weight kg
Clear	FL6S/C-F-050-C-EN-SF-A-ST-00-00-00	225154	80	3.040
Orange	FL6S/C-F-050-A-EN-SF-A-ST-00-00-00	225158	80	3.040
Red	FL6S/C-F-050-R-EN-SF-A-ST-00-00-00	225157	80	3.040

Further variations in gas group, flash energy, voltage and lens colour are available, please use the selection table on the internet at r-stahl.com. WebCode FL6SA

Technical Data

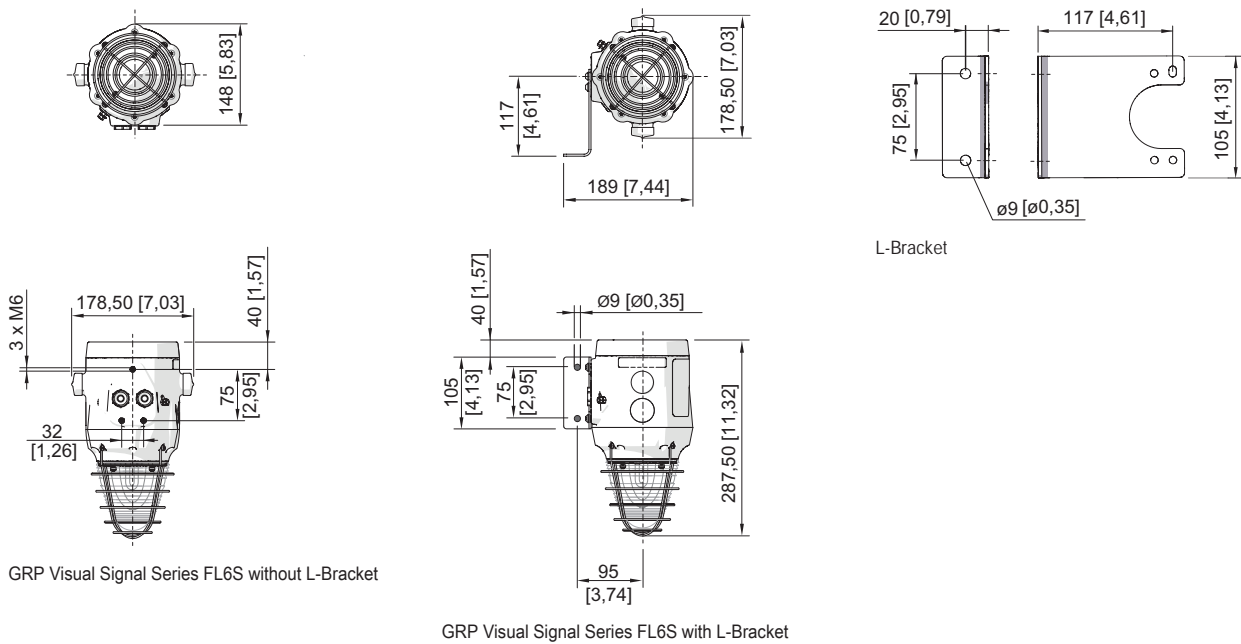
Variant	115 V	230 V	24 V	48 V
Explosion Protection				
Ambient temperature °C	-60 ... +40 °C	-60 ... +40 °C	-60 ... +40 °C	-60 ... +40 °C
Gas explosion protection IECEx	Ex d IIC T5 Gb	Ex d IIC T6 Gb	Ex d IIC T6 Gb	Ex d IIC T6 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex d IIC T5 Gb	⊕ II 2 G Ex d IIC T6 Gb	⊕ II 2 G Ex d IIC T6 Gb	⊕ II 2 G Ex d IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T83 °C Db	Ex tb IIIC T75 °C Db	Ex tb IIIC T73 °C Db	Ex tb IIIC T73 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T83 °C Db	⊕ II 2 D Ex tb IIIC T75 °C Db	⊕ II 2 D Ex tb IIIC T73 °C Db	⊕ II 2 D Ex tb IIIC T73 °C Db
Ambient temperature °C 2	-60 ... +55 °C	-60 ... +55 °C	-60 ... +55 °C	-60 ... +55 °C
Gas explosion protection IECEx 2	Ex d IIC T4 Gb	Ex d IIC T5 Gb	Ex d IIC T5 Gb	Ex d IIC T5 Gb
Gas explosion protection ATEX 2	⊕ II 2 G Ex d IIC T4 Gb	⊕ II 2 G Ex d IIC T5 Gb	⊕ II 2 G Ex d IIC T5 Gb	⊕ II 2 G Ex d IIC T5 Gb
Dust explosion protection IECEx 2	Ex tb IIIC T113 °C Db	Ex tb IIIC T90 °C Db	Ex tb IIIC T88 °C Db	Ex tb IIIC T88 °C Db
Dust Explosion Protection ATEX 2	⊕ II 2 D Ex tb IIIC T113 °C Db	⊕ II 2 D Ex tb IIIC T90 °C Db	⊕ II 2 D Ex tb IIIC T88 °C Db	⊕ II 2 D Ex tb IIIC T88 °C Db
Certificates	ATEX (BAS), IECEx (BAS)	ATEX (BAS), IECEx (BAS)	ATEX (BAS), IECEx (BAS)	ATEX (BAS), IECEx (BAS)
Electrical Data				
Nominal current	0.204 – 0.204 A	0.075 – 0.075 A	0.32 – 0.32 A	0.17 – 0.17 A
Line monitoring	Yes	Yes	Yes	Yes
Tolerance	-10 – 10 %	-10 – 10 %	-10 – 10 %	-10 – 10 %
Lighting Data				
Lamp	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes
Flashbulb	5 J	5 J	5 J	5 J
Flash rate	1 Hz	1 Hz	1 Hz	1 Hz
Mechanical Data				
Degree of protection IP (IEC 60529)	IP66/IP67	IP66/IP67	IP66/IP67	IP66/IP67
Protection class	II / Equipotential bonding connection	II / Equipotential bonding connection	II / Equipotential bonding connection	II / Equipotential bonding connection
Enclosure material	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced
Sealing material	Red silicone 70	Red silicone 70	Red silicone 70	Red silicone 70
Material mounting parts	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Material dome	Polycarbonate, prismatic	Polycarbonate, prismatic	Polycarbonate, prismatic	Polycarbonate, prismatic
Material wire guard	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Connection terminals solid max.	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Enclosure colour	Black	Black	Black	Black
Seal	O-ring seal	O-ring seal	O-ring seal	O-ring seal

Technical Data

Variant	115 V	230 V	24 V	48 V
Components				
Drilled holes	2 x M20	2 x M20	2 x M20	2 x M20
Screw connections	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	2 x dust cap	2 x dust cap	2 x dust cap	2 x dust cap

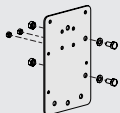




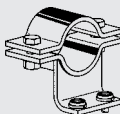
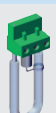
You can find more technical data online at r-stahl.com. WebCode FL6SA

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Cable glands made of metal			
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	0.200
	Ex d & Ex e cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass) with unique compensating displacement seal system (CDS)	246561	0.280

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Fixed adaptor			
	Adaptor plate for use in combination with pipe clamps	256519	0.630
Flange			
	Flange assembly standard, amber	243407	1.190
	Flange assembly standard, blue	243406	1.190
	Flange assembly standard, clear	223578	1.190
	Flange assembly standard, green	243405	1.190
	Flange assembly standard, red	243408	1.190
	Flange assembly standard, opal	243410	1.190
	Flange assembly standard, yellow	243409	1.190
Mounting accessories			
	Bracket assembly kit accessories made of stainless steel; long version	247371	0.280
PCB			
	PCB assembly 110 V AC 5J, for 5 Joule Xenon flashing beacons	223632	0.118
	PCB assembly 230 V AC 5J, for 5 Joule Xenon flashing beacons	223580	0.100
	PCB assembly 24 V DC 5J, for 5 Joule Xenon flashing beacons	223635	0.080
PCB termination			
	PCB assembly termination, for 5 Joule Xenon beacon only	223579	0.020
Pipe clamp			
	R 1 1/2"	120819	0.470
	R 1 1/4"	120812	0.500
	R 2"	120823	0.500
Xenon tube			
	Replacement xenon tube assembly	223636	0.006

E5



- Corrosion-resistant, GRP Ex d enclosure
- Suitable for offshore / onshore & harsh environments
- LED continuous beacon
- Light enhancing lens design
- Extreme temperature range -60 ... +70 °C
- Flexible mounting options
- Stainless steel fixings and guard
- Degree of protection IP66 & IP67
- Lightweight

WebCode **FX15A**



Yodalex range

Continuously illuminated visual signal, GRP enclosure designed for use in hazardous and harsh environments.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

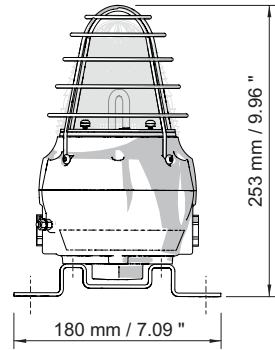
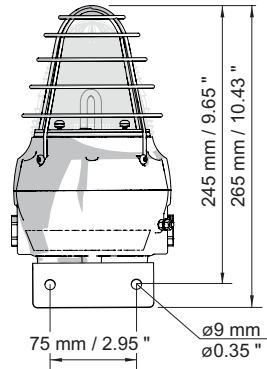
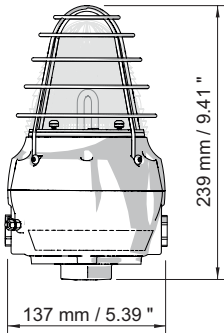
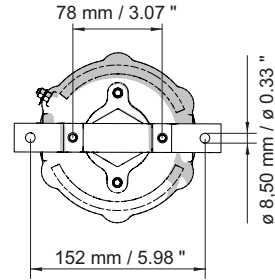
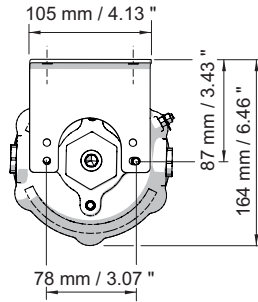
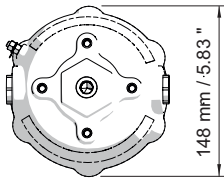
Selection Table						
Lamp Rated operational voltage AC		LED 100 – 254 V				
Lens colour	Nominal current	Product Type	Art. No.	PS	Weight kg	
Blue	0.015 – 0.03 A	FX15/C-P-060-B-EN-SF-A-ST-00-00-00	247069	80	2.250	
Clear	0.015 – 0.031 A	FX15/C-P-060-C-EN-SF-A-ST-00-00-00	247085	80	2.250	
Green	0.016 – 0.034 A	FX15/C-P-060-G-EN-SF-A-ST-00-00-00	247061	80	2.250	
Orange	0.012 – 0.026 A	FX15/C-P-060-A-EN-SF-A-ST-00-00-00	247077	80	2.250	
Red	0.012 – 0.025 A	FX15/C-P-060-R-EN-SF-A-ST-00-00-00	247093	80	2.250	
Lamp Rated operational voltage DC		LED 24 – 24 V				
Lens colour	Nominal current	Product Type	Art. No.	PS	Weight kg	
Blue	0.133 – 0.133 A	FX15/C-D-060-B-EN-SF-A-ST-00-00-00	247070	80	2.230	
Clear	0.139 – 0.139 A	FX15/C-D-060-C-EN-SF-A-ST-00-00-00	247086	80	2.230	
Green	0.15 – 0.15 A	FX15/C-D-060-G-EN-SF-A-ST-00-00-00	247062	80	2.230	
Magenta	0.139 – 0.139 A	FX15/C-D-060-M-EN-SF-A-ST-00-00-00	251767	80	2.230	
Orange	0.113 – 0.113 A	FX15/C-D-060-A-EN-SF-A-ST-00-00-00	247078	80	2.230	
Red	0.109 – 0.109 A	FX15/C-D-060-R-EN-SF-A-ST-00-00-00	247094	80	2.230	

Technical Data	
Explosion Protection	
Ambient temperature °C	-60 ... +70 °C
Gas explosion protection IECEx	Ex d IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex d IIC T6 Gb

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Technical Data	
Explosion Protection	
Dust explosion protection IECEx	Ex tb IIIC T85 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T85 °C Db
Certificates	ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO)
Electrical Data	
Tolerance	-10 – 10 %
Ambient Conditions	
Operating temperature	-60 °C ... +50 °C
Mechanical Data	
Degree of protection IP (IEC 60529)	IP66/IP67
Enclosure material	Polyester (GRP), Glass fibre reinforced
Enclosure colour	Black
Seal	O-ring seal
Sealing material	Red silicone 70
Material mounting parts	Stainless steel
Material dome	Polycarbonate, prismatic
Material wire guard	Stainless steel
Connection terminals solid max.	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²
Mounting / Installation	
Connection type	Screw terminal
Components	
Drilled holes	3 x M20
Screw connections	Can be ordered as accessories
Stopping plug	3 x dust cap
You can find more technical data online at r-stahl.com . WebCode FX15A	
FX15 Beacons are supplied without a bracket. These must be ordered separately (see accessories table).	
Accessories and spare parts see page 690	

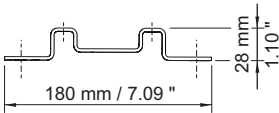
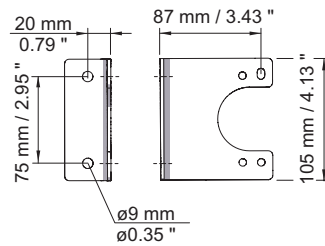
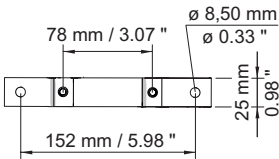
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



FX15 Beacon

FX15 Beacon with L-bracket

FX15 Beacon with backstrap bracket



L-shaped bracket

Backstrap bracket

E5



- Corrosion-resistant, GRP Ex d enclosure
- Suitable for offshore / onshore & harsh environments
- 5 Joule xenon flashing beacon
- Light enhancing lens design
- Extreme temperature range -55 ... +70 °C / -60 ... +70 °C
- Flexible mounting options
- Stainless steel fixings and guard
- Degree of protection IP66 & IP67
- Lightweight

WebCode **FX15B**



Yodalex range

Flashing visual signal, GRP enclosure designed for use in hazardous and harsh environments.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Certificates	ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO)				
Rated operational voltage AC	115 – 115 V				
Nominal current	0.14 – 0.14 A				
Lens colour	Product Type	Art. No.	PS	Weight	kg
Clear	FX15/C-L-050-C-EN-SF-A-ST-00-00-00	217983 ▲	80	2.250	
Green	FX15/C-L-050-G-EN-SF-A-ST-00-00-00	217993	80	2.250	
Orange	FX15/C-L-050-A-EN-SF-A-ST-00-00-00	217981 ▲	80	2.250	
Red	FX15/C-L-050-R-EN-SF-A-ST-00-00-00	217973 ▲	80	2.250	
Certificates	ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO)				
Rated operational voltage AC	230 – 230 V				
Nominal current	0.075 – 0.075 A				
Lens colour	Product Type	Art. No.	PS	Weight	kg
Blue	FX15/C-N-050-B-EN-SF-A-ST-00-00-00	218002	80	2.250	
Clear	FX15/C-N-050-C-EN-SF-A-ST-00-00-00	217995 ▲	80	2.250	
Green	FX15/C-N-050-G-EN-SF-A-ST-00-00-00	218003	80	2.250	
Orange	FX15/C-N-050-A-EN-SF-A-ST-00-00-00	217982 ▲	80	2.250	
Red	FX15/C-N-050-R-EN-SF-A-ST-00-00-00	217974 ▲	80	2.250	
Yellow	FX15/C-N-050-Y-EN-SF-A-ST-00-00-00	218001	80	2.250	
Certificates	ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO)				
Rated operational voltage DC	24 – 24 V				
Nominal current	0.3 – 0.3 A				
Lens colour	Product Type	Art. No.	PS	Weight	kg
Blue	FX15/C-D-050-B-EN-SF-A-ST-00-00-00	217992	80	2.230	
Clear	FX15/C-D-050-C-EN-SF-A-ST-00-00-00	217989 ▲	80	2.230	
Green	FX15/C-D-050-G-EN-SF-A-ST-00-00-00	217997	80	2.230	

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Selection Table				
Certificates Rated operational voltage DC Nominal current	ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO) 24 – 24 V 0.3 – 0.3 A			
Lens colour	Product Type	Art. No.	PS	Weight kg
Orange	FX15/C-D-050-A-EN-SF-A-ST-00-00-00	217979 ▲	80	2.230
Red	FX15/C-D-050-R-EN-SF-A-ST-00-00-00	217971 ▲	80	2.230
Yellow	FX15/C-D-050-Y-EN-SF-A-ST-00-00-00	217991	80	2.230
Certificates Rated operational voltage AC Nominal current Gas explosion protection EAC Dust explosion protection EAC	ATEX (BAS), EAC (STV), IECEx (BAS), Russian Federation (TPB SER) 230 – 230 V 0.075 – 0.075 A 1 Ex d IIB T6 ... T4 Gb X Ex tb IIIC T75°C/90°C/105°C			
Lens colour	Product Type	Art. No.	PS	Weight kg
Green	FX15/C-N-050-G-RU-SF-A-ST-00-00-00	257179	80	2.250
Orange	FX15/C-N-050-A-RU-SF-A-ST-00-00-00	250498	80	2.250
Red	FX15/C-N-050-R-RU-SF-A-ST-00-00-00	238878	80	2.250
Yellow	FX15/C-N-050-Y-RU-SF-A-ST-00-00-00	250499	80	2.250
Certificates Rated operational voltage DC Nominal current Gas explosion protection EAC Dust explosion protection EAC	ATEX (BAS), EAC (STV), IECEx (BAS), Russian Federation (TPB SER) 24 – 24 V 0.3 – 0.3 A 1 Ex d IIB T6 ... T4 Gb X Ex tb IIIC T73°C/88°C/103°C			
Lens colour	Product Type	Art. No.	PS	Weight kg
Orange	FX15/C-D-050-A-RU-SF-A-ST-00-00-00	239122	80	2.230
Red	FX15/C-D-050-R-RU-SF-A-ST-00-00-00	239121	80	2.230
Yellow	FX15/C-D-050-Y-RU-SF-A-ST-00-00-00	252025 ▲	80	2.230

Technical Data			
Variant	24 V	115 V	230 V
Explosion Protection			
Ambient temperature °C	-60 ... +40 °C	-60 ... +40 °C	-60 ... +40 °C
Gas explosion protection IECEx	Ex d IIC T6 Gb	Ex d IIC T5 Gb	Ex d IIC T6 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex d IIC T6 Gb	⊕ II 2 G Ex d IIC T5 Gb	⊕ II 2 G Ex d IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T73 °C Db	Ex tb IIIC T83 °C Db	Ex tb IIIC T75 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T73 °C Db	⊕ II 2 D Ex tb IIIC T83 °C Db	⊕ II 2 D Ex tb IIIC T75 °C Db
Electrical Data			
Tolerance	-10 – 10 %	-10 – 10 %	-10 – 10 %
Ambient Conditions			
Operating temperature	-50 °C ... +70 °C	-55 °C ... +55 °C	-55 °C ... +70 °C
Lighting Data			
Lamp	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes
Flashbulb	5 J	5 J	5 J
Flash rate	1 Hz	1 Hz	1 Hz
Mechanical Data			
Degree of protection IP (IEC 60529)	IP66/IP67	IP66/IP67	IP66/IP67
Enclosure material	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced
Enclosure colour	Black	Black	Black
Material mounting parts	Stainless steel	Stainless steel	Stainless steel
Material dome	Polycarbonate, prismatic	Polycarbonate, prismatic	Polycarbonate, prismatic
Material wire guard	Stainless steel	Stainless steel	Stainless steel

E5

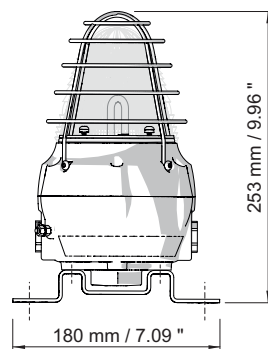
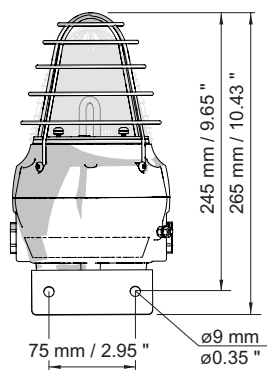
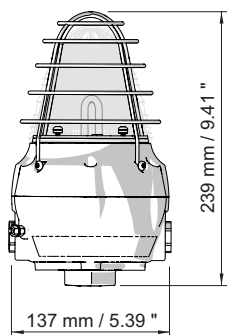
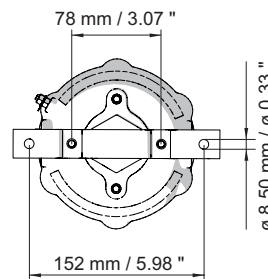
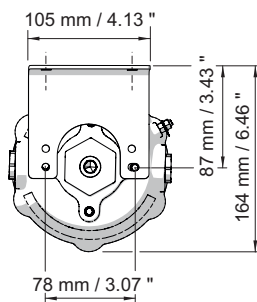
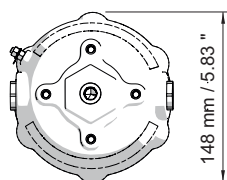
Technical Data			
Variant	24 V	115 V	230 V
Mechanical Data			
Connection terminals solid max.	2.5 mm ²	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²	2.5 mm ²
Mounting / Installation			
Connection type	Screw terminal	Screw terminal	Screw terminal
Components			
Drilled holes	3 x M20	3 x M20	3 x M20
Screw connections	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	3 x dust cap	3 x dust cap	3 x dust cap

You can find more technical data online at r-stahl.com. WebCode FX15B

FX15 Beacons are supplied without a bracket. These must be ordered separately (see Accessories table).

Accessories and spare parts see page 690

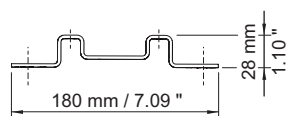
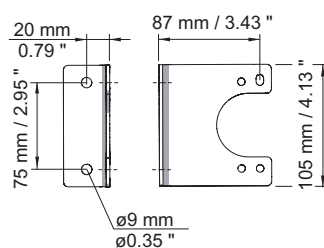
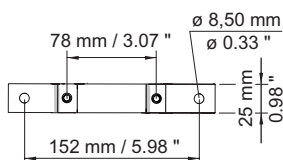
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



FX15 Beacon

FX15 Beacon with L-bracket


FX15 Beacon with backstrap bracket




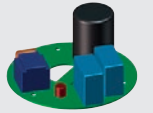


L-shaped bracket

Backstrap bracket

E5

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Mounting accessories			
	Stainless steel backstrap mounting bracket - see dimensional drawings	221712 ▲	0.155
	Stainless steel L-bracket; standard — see dimensional drawings	221711 ▲	0.287
	Bracket assembly kit accessories made of stainless steel; long version	247371	0.280
Fixed adaptor			
	Adaptor plate for use in combination with pipe clamps	256519	0.630
Pipe clamp			
	R 1 1/2"	120819	0.470
	R 1 1/4"	120812	0.500
	R 2"	120823	0.500
Sun shield			
	material: stainless steel	262077	0.200
Cable glands made of metal			
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	0.200
	Ex d & Ex e cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass) with unique compensating displacement seal system (CDS)	246561	0.280
Flange			
	Flange assembly standard, amber	243407	1.190
	Flange assembly standard, blue	243406	1.190
	Flange assembly standard, clear	223578	1.190
	Flange assembly standard, green	243405	1.190
	Flange assembly standard, red	243408	1.190
	Flange assembly standard, opal	243410	1.190
	Flange assembly standard, yellow	243409	1.190

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Accessories and Spare Parts				
Figure	Description	Art. No.	Weight	kg
PCB termination				
	PCB assembly termination, for 5 Joule Xenon beacon only	223579	0.020	
PCB				
	PCB assembly 110 V AC 5J, for 5 Joule Xenon flashing beacons	223632	0.118	
	PCB assembly 230 V AC 5J, for 5 Joule Xenon flashing beacons	223580	0.100	
	PCB assembly 24 V DC 5J, for 5 Joule Xenon flashing beacons	223635	0.080	
Stopping plugs				
	Stopping plug made of stainless steel M20x1,5 with external hexagon	251101 ▲	0.079	
Xenon tube				
	Replacement xenon tube assembly	223636	0.006	



- Ex d enclosure made from seawater-resistant aluminium
- 5, 10 or 20 Joule xenon strobe
- Lens available in seven different colours
- Stainless steel fixings
- Flash rate 1 Hz
- Lens guard and mounting bracket supplied as standard
- IP66 rated as standard / NEMA 4X (for UL variants)
- Telephone initiate option available
- SIL 1 IEC61508-2:2010

WebCode **FL60B**



Yodalex range

Product Series FL60 is designed to provide a visual alarm which can be used to alert, warn or draw attention to machine malfunction/start up or any number of safety related issues in hazardous areas. Visual signal designed for use in hazardous or harsh environments.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Ex interface		•	•			
Installation in		•	•		•	•

	NEC 505 Class I			NEC 506		
Zone	0	1	2	20	21	22
Ex interface		•	•			
Installation in		•	•			

	NEC 500					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•	•	•	•	•	•
Installation in	•	•	•	•	•	•

Selection Table							
Certificates Flashbulb		ATEX (BAS), EAC (TehnoP), Russian Federation (TPB SER) 5 J					
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Nominal current	Product Type	Art. No.	PS	Weight kg
115 – 115 V	-	Orange	0.09 – 0.09 A	FL60/C/L50/A/RU	212382	80	5.080
		Red	0.09 – 0.09 A	FL60/C/L50/R/RU	212383	80	5.080
230 – 230 V	-	Orange	0.045 – 0.045 A	FL60/C/N50/A/RU	212384	80	5.080
		Red	0.045 – 0.045 A	FL60/C/N50/R/RU	212385	80	5.080
		Yellow	0.045 – 0.045 A	FL60/C/N50/Y/RU	220086	80	5.080
-	24 – 24 V	Orange	0.22 – 0.22 A	FL60/C/D50/A/RU	206976	80	5.080
		Red	0.22 – 0.22 A	FL60/C/D50/R/RU	212381	80	5.080
		Yellow	0.22 – 0.22 A	FL60/C/D50/Y/RU	264017	80	5.080
Certificates Flashbulb		ATEX (BAS), IECEx (BAS), Korea (KTL), SIL (exida), Taiwan (ITRI) 5 J					
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Nominal current	Product Type	Art. No.	PS	Weight kg
115 – 115 V	-	Orange	0.09 – 0.09 A	FL60/C/L50/A/EU	212366	80	5.080
		Blue	0.09 – 0.09 A	FL60/C/L50/B/EU	205143	80	5.080
		Green	0.09 – 0.09 A	FL60/C/L50/G/EU	205144	80	5.080
		Red	0.09 – 0.09 A	FL60/C/L50/R/EU	205145	80	5.080

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Selection Table

Certificates Flashbulb		ATEX (BAS), IECEX (BAS), Korea (KTL), SIL (exida), Taiwan (ITRI)						
		5 J						
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Nominal current	Product Type	Art. No.	PS	Weight kg	
230 – 230 V	-	Orange	0.045 – 0.045 A	FL60/C/N50/A/EU	205150 ▲	80	5.080	
		Blue	0.045 – 0.045 A	FL60/C/N50/B/EU	205151	80	5.080	
		Clear	0.045 – 0.045 A	FL60/C/N50/C/EU	205152	80	5.080	
		Red	0.045 – 0.045 A	FL60/C/N50/R/EU	205153 ▲	80	5.080	
		Yellow	0.045 – 0.045 A	FL60/C/N50/Y/EU	205155	80	5.080	
-	24 – 24 V	Orange	0.22 – 0.22 A	FL60/C/D50/A/EU	205129 ▲	80	5.080	
		Blue	0.22 – 0.22 A	FL60/C/D50/B/EU	205130	80	5.080	
		Clear	0.22 – 0.22 A	FL60/C/D50/C/EU	206984	80	5.080	
		Green	0.22 – 0.22 A	FL60/C/D50/G/EU	206982	80	5.080	
		Red	0.22 – 0.22 A	FL60/C/D50/R/EU	205133 ▲	80	5.080	
		Yellow	0.22 – 0.22 A	FL60/C/D50/Y/EU	205140	80	5.080	
Certificates Flashbulb		ATEX (BAS), IECEX (BAS), Korea (KTL), SIL (exida), Taiwan (ITRI)						
		10 J						
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Nominal current	Product Type	Art. No.	PS	Weight kg	
115 – 115 V	-	Clear	0.105 – 0.105 A	FL60/C/L100/C/EU	205142	80	5.080	
		Red	0.053 – 0.053 A	FL60/C/L100/R/EU	206993	80	5.080	
		Yellow	0.105 – 0.105 A	FL60/C/L100/Y/EU	252627	80	5.080	
230 – 230 V	-	Orange	0.053 – 0.053 A	FL60/C/N100/A/EU	205146	80	5.080	
		Blue	0.053 – 0.053 A	FL60/C/N100/B/EU	205147	80	5.080	
		Red	0.053 – 0.053 A	FL60/C/N100/R/EU	205148	80	5.080	
		Yellow	0.053 – 0.053 A	FL60/C/N100/Y/EU	229927	80	5.080	
-	24 – 24 V	Orange	0.5 – 0.5 A	FL60/C/D100/A/EU	243725	80	5.080	
		Blue	0.5 – 0.5 A	FL60/C/D100/B/EU	222058	80	5.080	
		Clear	0.5 – 0.5 A	FL60/C/D100/C/EU	260788	80	5.080	
		Red	0.5 – 0.5 A	FL60/C/D100/R/EU	205124	80	5.080	
		Yellow	0.5 – 0.5 A	FL60/C/D100/Y/EU	205125	80	5.080	
Certificates Flashbulb		ATEX (BAS), IECEX (BAS), Korea (KTL), SIL (exida), Taiwan (ITRI)						
		20 J						
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Nominal current	Product Type	Art. No.	PS	Weight kg	
115 – 115 V	-	Clear	0.17 – 0.17 A	FL60/C/L200/C/EU	206996	80	5.080	
		Red	0.17 – 0.17 A	FL60/C/L200/R/EU	206995	80	5.080	
230 – 230 V	-	Orange	0.17 – 0.17 A	FL60/C/N200/A/EU	217478	80	5.080	
		Clear	0.17 – 0.17 A	FL60/C/N200/C/EU	257225	80	5.080	
		Red	0.17 – 0.17 A	FL60/C/N200/R/EU	205149	80	5.080	
		Yellow	0.17 – 0.17 A	FL60/C/N200/Y/EU	223322	80	5.080	
-	24 – 24 V	Orange	1.1 – 1.1 A	FL60/C/D200/A/EU	205126	80	5.080	
		Blue	1.1 – 1.1 A	FL60/C/D200/B/EU	252854	80	5.080	
		Clear	1.1 – 1.1 A	FL60/C/D200/C/EU	252855	80	5.080	
		Red	1.1 – 1.1 A	FL60/C/D200/R/EU	205127	80	5.080	
		Yellow	1.1 – 1.1 A	FL60/C/D200/Y/EU	205128	80	5.080	

E5

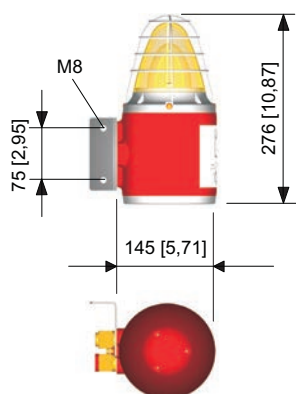
Selection Table								
Certificates		Canada / USA (UL)						
Flashbulb		5 J						
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Nominal current	Product Type	Art. No.	PS	Weight kg	
115 – 115 V	-	Clear	0.09 – 0.09 A	FL60/B/L50/C/UL	261246	80	5.080	
230 – 230 V	-	Orange	0.045 – 0.045 A	FL60/B/N50/A/UL	212367	80	5.080	
		Red	0.045 – 0.045 A	FL60/B/N50/R/UL	211406	80	5.080	
-	24 – 24 V	Orange	0.22 – 0.22 A	FL60/B/D50/A/UL	205156	80	5.080	
		Blue	0.22 – 0.22 A	FL60/B/D50/B/UL	205368	80	5.080	
		Clear	0.22 – 0.22 A	FL60/B/D50/C/UL	205159	80	5.080	
		Red	0.22 – 0.22 A	FL60/B/D50/R/UL	205160	80	5.080	
		Yellow	0.22 – 0.22 A	FL60/B/D50/Y/UL	205369	80	5.080	

Further variations in gas group, flash energy, voltage and lens colour are available, please use the selection table on the internet. The tone table can be found online at r-stahl.com.

Technical Data				
Variant	5 J (ATEX / IECEx)	10 J / 20 J (ATEX / IECEx)	5 J (EAC)	5 J (UL)
Explosion Protection				
Ambient temperature °C	-20 ... +60 °C	-20 ... +60 °C	-20 ... +60 °C	-20 ... +60 °C
Gas explosion protection IECEx	Ex d IIB+H2 T4 Gb	Ex d IIB+H2 T4 Gb		Ex d IIB+H2 T4 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex d IIB+H2 T4 Gb	Ⓔ II 2 G Ex d IIB+H2 T4 Gb		Ⓔ II 2 G Ex d IIB+H2 T4 Gb
Gas explosion protection EAC			1 Ex d IIB+H2 T4 Gb X 1 Ex d IIB+H2 T6 Gb X	
Dust explosion protection IECEx	Ex tb IIIC T135 °C Db	Ex tb IIIC T135 °C Db		Ex tb IIIC T135 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T135 °C Db	Ⓔ II 2 D Ex tb IIIC T135 °C Db		Ⓔ II 2 D Ex tb IIIC T135 °C Db
Dust explosion protection EAC			Ex tb IIIC T135 °C Db X Ex tb IIIC T85 °C Db X	
Gas explosion protection IECEx 2	Ex d IIB+H2 T6 Gb			
Gas explosion protection ATEX 2	Ⓔ II 2 G Ex d IIB+H2 T6 Gb			
Dust explosion protection IECEx 2	Ex tb IIIC T85 °C Db			
Dust Explosion Protection ATEX 2	Ⓔ II 2 D Ex tb IIIC T85 °C Db			
Electrical Data				
Tolerance	-10 – 10 %	-10 – 10 %	-10 – 10 %	-10 – 10 %
Lighting Data				
Lamp	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes
Flash rate	1 Hz	1 Hz	1 Hz	1 Hz
Mechanical Data				
Degree of protection IP (IEC 60529)	IP66	IP66	IP66	IP66
Protection class	I (PE connection) (Internal + external)	I (PE connection) (Internal + external)	I (PE connection) (Internal + external)	I (PE connection) (Internal + external)
Enclosure material	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant
Sealing material	NBR O-ring seal	NBR O-ring seal	NBR O-ring seal	NBR O-ring seal
Material mounting parts	Sheet steel, powder-coated	Sheet steel, powder-coated	Sheet steel, powder-coated	Sheet steel, powder-coated
Material dome	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Material wire guard	Round structural steel, galvanised	Round structural steel, galvanised	Round structural steel, galvanised	Round structural steel, galvanised
Connection terminals solid max.	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Enclosure colour	red normal	red normal	red normal	red normal

Technical Data				
Variant	5 J (ATEX / IECEx)	10 J / 20 J (ATEX / IECEx)	5 J (EAC)	5 J (UL)
Mounting / Installation				
Connection type	Screw terminal	Screw terminal	Screw terminal	Screw terminal
Components				
Drilled holes	2 x M20	2 x M20	2 x M20	2 x M20
Screw connections	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	1 x M20 x 1.5 1 x dust cap	1 x M20 x 1.5 1 x dust cap	1 x dust cap 1 x M20 x 1.5	2x1/2"NPT adaptor M20x1/ 2"NPT
Stopping plug material	Brass	Brass	Brass	Brass
You can find more technical data online at r-stahl.com . WebCode FL60B				
Approvals of the cable entries must be observed.				

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



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Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Cable glands made of metal			
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	0.200
	Ex d & Ex e cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass) with unique compensating displacement seal system (CDS)	246561	0.280

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Moulding-lens			
	clear	209402	0.070
	red	209405	0.070
	yellow	209406	0.070
Mounting bracket			
	Stainless steel bracket fixing kit accessories	210794	0.400
	material: stainless steel	262014	0.290
Sun shield			
	material: stainless steel	262012	-
Emergency light flange			
	amber ATEX spare	209407	1.080
	amber UL spare	209421	1.080
	blue ATEX spare	209408	1.080
	blue UL spare	209422	1.080
	clear UL spare	209423	1.080
	green UL spare	209424	1.080
	red ATEX 10/20J spare	209419	1.080
	red ATEX spare	209412	1.080
	red UL spare	209426	1.080
	yellow ATEX spare	209413	1.080
	magenta ATEX spare	262929	1.080

E5



- Robust, seawater resistant aluminium enclosure
- Flashing frequency 1 Hz
- Flashing energy 5 Joules
- Integrated Ex e connection chamber
- Light dome available in: signal yellow, red, orange, green, blue and clear
- Steady beacon in LED technology
- Extreme temperature range -40 ... +50 °C

WebCode **6161A**



The flashing beacons and steady beacons of Series 6161 are installed to provide optical signals in explosive gas atmospheres and areas with combustible dust.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Lamp	Flash tubes						
Rated operational voltage AC	Rated operational voltage DC	Nominal current	Lens colour	Product Type	Art. No.	PS	Weight kg
24 – 42 V	12 – 48 V	0.3 – 0.5 A	Yellow	6161/2-61-121-0	120674	34	1.400
			Clear	6161/2-61-221-0	219802	34	1.400
			Red	6161/2-61-321-0	120668	34	1.400
			Blue	6161/2-61-421-0	219803	34	1.400
			Green	6161/2-61-521-0	263357	34	1.400
			Orange	6161/2-61-621-0	120680	34	1.310
110 – 127 V	-	0.11 – 0.11 A	Yellow	6161/2-31-121-0	219805	34	1.400
			Clear	6161/2-31-221-0	219806	34	1.400
			Red	6161/2-31-321-0	219807	34	1.400
			Blue	6161/2-31-421-0	219808	34	1.400
			Green	6161/2-31-521-0	219810	34	1.400
			Orange	6161/2-31-621-0	219809	34	1.400
230 – 230 V	-	0.08 – 0.08 A	Yellow	6161/2-11-121-0	120648	34	1.400
			Clear	6161/2-11-221-0	219249	34	1.400
			Red	6161/2-11-321-0	120655	34	1.400
			Blue	6161/2-11-421-0	219250	34	1.400
			Green	6161/2-11-521-0	219801	34	1.400
			Orange	6161/2-11-621-0	120662	34	1.400

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Selection Table							
Lamp		Flash tubes					
Rated operational voltage AC	Rated operational voltage DC	Nominal current	Lens colour	Product Type	Art. No.	PS	Weight kg
-	60 – 80 V	0.11 – 0.13 A	Yellow	6161/2-41-121-0	219813	34	1.400
		0.11 – 0.13 A	Clear	6161/2-41-221-0	219814	34	1.400
		0.11 – 0.13 A	Red	6161/2-41-321-0	219815	34	1.400
		0.11 – 0.13 A	Blue	6161/2-41-421-0	219816	34	1.400
		0.11 – 0.13 A	Green	6161/2-41-521-0	219819	34	1.400
		0.11 – 0.13 A	Orange	6161/2-41-621-0	219817	34	1.400
Lamp		LED					
Rated operational voltage AC	Rated operational voltage DC	Nominal current	Lens colour	Product Type	Art. No.	PS	Weight kg
24 – 24 V	24 – 24 V	0.12 – 0.12 A	Yellow	6161/3-70-121-0	219845	34	1.400
		0.12 – 0.12 A	Clear	6161/3-70-221-0	219846	34	1.400
		0.12 – 0.12 A	Red	6161/3-70-321-0	219847	34	1.400
		0.12 – 0.12 A	Blue	6161/3-70-421-0	219848	34	1.400
		0.12 – 0.12 A	Green	6161/3-70-521-0	219850	34	1.400
		0.12 – 0.12 A	Orange	6161/3-70-621-0	219849	34	1.400
230 – 230 V	-	0.02 – 0.02 A	Yellow	6161/3-10-121-0	219822	34	1.400
		0.02 – 0.02 A	Clear	6161/3-10-221-0	219828	34	1.400
		0.02 – 0.02 A	Red	6161/3-10-321-0	219831	34	1.400
		0.02 – 0.02 A	Blue	6161/3-10-421-0	219832	34	1.400
		0.02 – 0.02 A	Green	6161/3-10-521-0	219844	34	1.400
		0.02 – 0.02 A	Orange	6161/3-10-621-0	219842	34	1.400

Technical Data	
Explosion Protection	
Ambient temperature °C	-40 ... +40 °C
Gas explosion protection IECEx	Ex de IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex de IIC T6 Gb
Gas explosion protection EAC	1 Ex d e IIC T6...T5 Gb X
Dust explosion protection IECEx	Ex tb IIIC T85 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T85 °C Db
Dust explosion protection EAC	Ex tb IIIC T65 °C...T100 °C Db X
Certificates	ATEX (LCI), China (COST), EAC (TehnoP), IECEx (LCI), India (PESO), Korea (KTL)
Ship approval	GL
Electrical Data	
Back-up fuse	4 AT
Mechanical Data	
Degree of protection IP (IEC 60529)	IP66
Enclosure material	Aluminium, powder-coated, Seawater-resistant
Enclosure colour	Yellow / black, powder-coated
Sealing material	NBR O-ring seal
Material mounting parts	Stainless steel
Material dome	Polycarbonate (Lexan) Prismatic
Terminal marking	PE + N + L1
Connection terminals solid max.	4 mm ²
Connection terminals finely-stranded max.	2.5 mm ²

Technical Data

Mounting / Installation

Connection type Screw terminals, 3-pin

Components

Drilled holes 2 x M20

Screw connections 1 x M20 Ø 4 – 13 mm

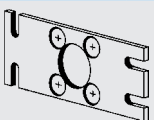
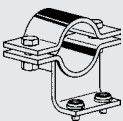
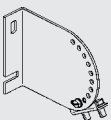


Material of screw connections Polyamide, black

Stopping plug 1 x M20 x 1.5

Stopping plug material Polyamide, black

You can find more technical data online at r-stahl.com. WebCode 6161A

Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Mounting plate			
	material: stainless steel, includes mounting screws, for wall or floor mounting	120821 ▲	0.158
Pipe clamp			
	R 1 1/4"	120812	0.500
	R 1 1/2"	120819	0.470
	R 2"	120823	0.500
Ceiling and wallmounting bracket			
	material: stainless steel includes mounting screws	120826 ▲	0.480
Wire guard			
	material: stainless steel	120818 ▲	0.260
Stopping plug			
	8290/3-M20, 1 piece	143522	0.005
	8290/3-M20, 100 pieces	143543 ▲	0.500
Cable gland			
	8161/7-M20-1304 4 ... 13 mm², 50 pieces (delivery lot*)	239156 ▲	0.013

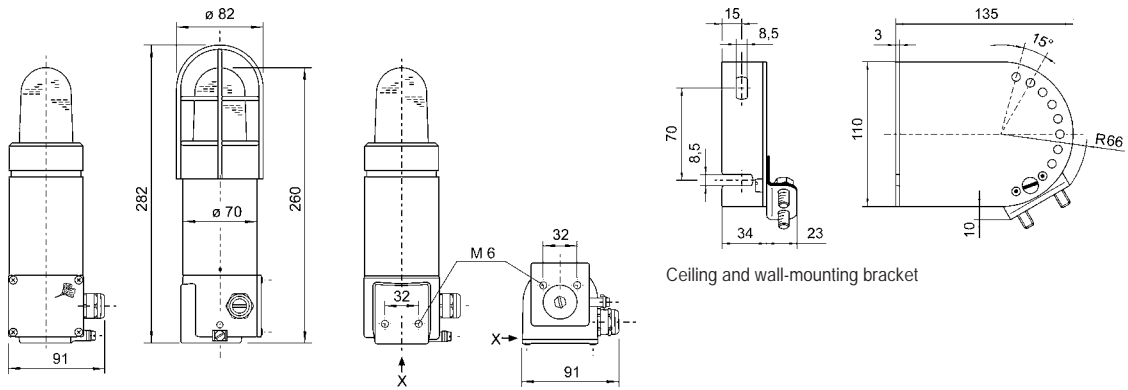
* Purchase order quantity in [pieces], the delivery quantity is automatically rounded to the delivery lot.

Xenon Strobe, 5 Joule

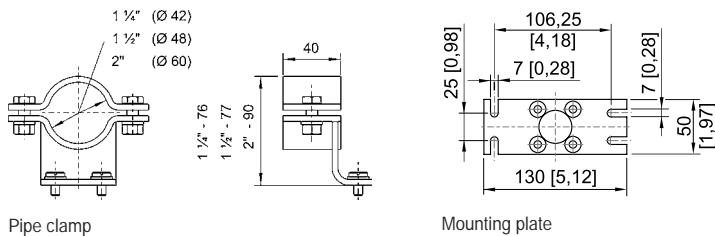
Series 6161 - Flameproof Version with Ex e Connection Chamber



Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Optical beacon 6161



Pipe clamp

Mounting plate

E5



- Xenon versions: rotating mirror beacon, rotating beacon, beacon with double flash (9 + 5 J), flashing beacon (15 J) with 20 W / 35 W halogen bulb
- LED versions: continuous beacon and rotating beacon
- Seawater resistant aluminium enclosure with glass dome
- Integrated Ex e connection chamber
- Glass dome available in: signal yellow, red, orange and blue resp. clear

WebCode **6162A**



The R. STAHL Signal Beacon Series 6162 is approved for use in Ex Zones 1, 2, 21 and 22.

All models feature an integrated "increased safety" wiring space.

The rotating mirror beacons and the rotating beacons have an integrated wear resistant friction gear which creates 180 light signals per minute.

The wear-free LED beacons ensure an extremely high service life of up to 50,000 hours due to the innovative LED technology.

In addition to the LED-continuous beacon, a LED-rotating beacon is also available.

This LED-rotating beacon is maintenance-free thanks to the absence of any moving components.

The robust, seawater resistant aluminium enclosure ensures IP66 protection for all models.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

E5

Selection Table										
Product variant			Flashing beacon							
Lamp			Flash tubes							
Flashbulb			15 J							
Flash rate			1 Hz							
Lens colour	Gas temperature class	Dust maximum surface temperature	Rated operational voltage DC	Rated operational voltage AC	Nominal current	Product Type	Art. No.	PS	Weight kg	
Blue	T6	75 °C	24 – 24 V	24 – 24 V	0.8 – 0.8 A	6162/15-64-411	219861	34	5.300	
		80 °C	–	230 – 240 V	0.2 – 0.2 A	6162/15-74-411	219866	34	5.300	
Clear	T6	75 °C	24 – 24 V	24 – 24 V	0.8 – 0.8 A	6162/15-64-211	219799	34	5.300	
		80 °C	–	230 – 240 V	0.2 – 0.2 A	6162/15-74-211	219864	34	5.300	
Orange	T6	75 °C	24 – 24 V	24 – 24 V	0.8 – 0.8 A	6162/15-64-611	219862	34	5.300	
		80 °C	–	230 – 240 V	0.2 – 0.2 A	6162/15-74-611	219867	34	5.300	
Red	T5	95 °C	–	110 – 127 V	0.25 – 0.25 A	6162/15-44-311	219795	34	5.300	
		T6	75 °C	24 – 24 V	24 – 24 V	0.8 – 0.8 A	6162/15-64-311	219800	34	5.300
			80 °C	–	230 – 240 V	0.2 – 0.2 A	6162/15-74-311	219865	34	5.300
Yellow	T6	75 °C	24 – 24 V	24 – 24 V	0.8 – 0.8 A	6162/15-64-111	219798	34	5.300	
		80 °C	–	230 – 240 V	0.2 – 0.2 A	6162/15-74-111	219863	34	5.300	

Selection Table									
Product variant Lamp Power			LED-continuous beacon LED 5 – 5 W						
Lens colour	Gas temperature class	Dust maximum surface temperature	Rated operational voltage DC	Rated operational voltage AC	Nominal current	Product Type	Art. No.	PS	Weight kg
Orange	T6	70 °C	24 – 24 V	–	0.2 – 0.2 A	6162/19-55-611	203036	34	5.300
		70 °C	–	115 – 230 V	0.025 – 0.06 A	6162/19-95-611	203037	34	5.300
Red	T6	70 °C	24 – 24 V	–	0.2 – 0.2 A	6162/19-55-311	201880	34	5.300
		70 °C	–	115 – 230 V	0.025 – 0.06 A	6162/19-95-311	219980	34	5.300
Yellow	T6	70 °C	24 – 24 V	–	0.2 – 0.2 A	6162/19-55-111	201879	34	5.300
		70 °C	–	115 – 230 V	0.025 – 0.06 A	6162/19-95-111	201901	34	5.300
Product variant Lamp Power			Rotating beacon Halogen lamp 35 – 35 W						
Lens colour	Gas temperature class	Dust maximum surface temperature	Rated operational voltage DC	Rated operational voltage AC	Nominal current	Product Type	Art. No.	PS	Weight kg
Blue	T4	105 °C	–	230 – 230 V	0.17 – 0.17 A	6162/18-12-411	219955	34	5.300
		105 °C	24 – 24 V	24 – 24 V	1.6 – 1.6 A	6162/18-62-411	219965	34	5.300
Orange	T4	105 °C	–	230 – 230 V	0.17 – 0.17 A	6162/18-12-611	219956	34	5.300
		105 °C	24 – 24 V	24 – 24 V	1.6 – 1.6 A	6162/18-62-611	219966	34	5.300
Red	T4	105 °C	–	230 – 230 V	0.17 – 0.17 A	6162/18-12-311	219954	34	5.300
		105 °C	24 – 24 V	24 – 24 V	1.6 – 1.6 A	6162/18-62-311	219964	34	5.300
Yellow	T4	105 °C	–	230 – 230 V	0.17 – 0.17 A	6162/18-12-111	219952	34	5.300
		105 °C	24 – 24 V	24 – 24 V	1.6 – 1.6 A	6162/18-62-111	219962	34	5.300
Product variant Lamp Power			Rotating beacon LED 3.6 – 3.6 W						
Lens colour	Gas temperature class	Dust maximum surface temperature	Rated operational voltage DC	Rated operational voltage AC	Nominal current	Product Type	Art. No.	PS	Weight kg
Orange	T6	70 °C	24 – 24 V	–	0.15 – 0.15 A	6162/18-55-611	219961	34	5.300
		70 °C	–	115 – 230 V	0.15 – 0.15 A	6162/18-95-611	219976	34	5.300
Red	T6	70 °C	24 – 24 V	–	0.15 – 0.15 A	6162/18-55-311	219959	34	5.300
		70 °C	–	115 – 230 V	0.15 – 0.15 A	6162/18-95-311	219975	34	5.300
Yellow	T6	70 °C	24 – 24 V	–	0.15 – 0.15 A	6162/18-55-111	219972	34	5.300
		70 °C	–	115 – 230 V	0.15 – 0.15 A	6162/18-95-111	201903	34	5.300
Product variant Lamp Power			Rotating light Halogen lamp 35 – 35 W						
Lens colour	Gas temperature class	Dust maximum surface temperature	Rated operational voltage DC	Rated operational voltage AC	Nominal current	Product Type	Art. No.	PS	Weight kg
Blue	T4	105 °C	115 – 115 V	115 – 115 V	0.35 – 0.35 A	6162/18-32-411	241526	34	5.300
Clear	T4	105 °C	115 – 115 V	115 – 115 V	0.35 – 0.35 A	6162/18-32-211	241524	34	5.300
Green	T4	105 °C	–	230 – 230 V	0.17 – 0.17 A	6162/18-12-711	241522	34	5.300
		105 °C	115 – 115 V	115 – 115 V	0.35 – 0.35 A	6162/18-32-711	241528	34	5.300
		105 °C	24 – 24 V	24 – 24 V	1.6 – 1.6 A	6162/18-62-711	241535	34	5.300
Orange	T4	105 °C	115 – 115 V	115 – 115 V	0.35 – 0.35 A	6162/18-32-611	241527	34	5.300
Red	T4	105 °C	115 – 115 V	115 – 115 V	0.35 – 0.35 A	6162/18-32-311	241525	34	5.300
Yellow	T4	105 °C	115 – 115 V	115 – 115 V	0.35 – 0.35 A	6162/18-32-111	241523	34	5.300

Selection Table

Product variant		Rotating mirror beacon Halogen lamp 35 – 35 W							
Lamp Power	Gas temperature class	Dust maximum surface temperature	Rated operational voltage DC	Rated operational voltage AC	Nominal current	Product Type	Art. No.	PS	Weight kg
Blue	T3	150 °C	24 – 24 V	24 – 24 V	1.6 – 1.6 A	6162/17-62-411	219936	34	5.300
Green	T3	150 °C	–	230 – 230 V	0.17 – 0.17 A	6162/17-12-711	241477	34	5.300
		150 °C	–	115 – 115 V	0.35 – 0.35 A	6162/17-32-711	241478	34	5.300
		150 °C	24 – 24 V	24 – 24 V	1.6 – 1.6 A	6162/17-62-711	241480	34	5.300
Orange	T3	150 °C	–	230 – 230 V	0.17 – 0.17 A	6162/17-12-611	219874	34	5.300
Red	T3	150 °C	–	230 – 230 V	0.17 – 0.17 A	6162/17-12-311	219897	34	5.300
		150 °C	24 – 24 V	24 – 24 V	1.6 – 1.6 A	6162/17-62-311	219934	34	5.300
Yellow	T3	150 °C	–	230 – 230 V	0.17 – 0.17 A	6162/17-12-111	219894	34	5.300
		150 °C	–	115 – 115 V	0.35 – 0.35 A	6162/17-32-111	219879	34	5.300
		150 °C	24 – 24 V	24 – 24 V	1.6 – 1.6 A	6162/17-62-111	219928	34	5.300

The optical beacons are supplied without mounting accessories and wire guard. These must be ordered separately!

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex de IIC T.. Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex de IIC T.. Gb
Gas explosion protection EAC	2 Ex de IIC T3...T6
Dust explosion protection IECEx	Ex tb IIIC T.. Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T.. Db
Dust explosion protection EAC	Ex tD A21 IP66 Ta80...160°C
Certificates	ATEX (PTB), EAC (STV), IECEx (PTB)
Notes	For temperature classes and surface temperatures, see selection table

Ambient Conditions

Ambient temperature	-20 °C ... +40 °C -20 °C ... +50 °C
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Mechanical Data

Degree of protection IP (IEC 60529)	IP66
Protection class	I (PE connection) (Internal + external)
Enclosure material	Aluminium, powder-coated, Seawater-resistant
Material dome	Glass Temperature-resistant
Terminal marking	PE + N + L1
Connection terminals solid max.	4 mm ²
Connection terminals finely-stranded max.	2.5 mm ²

Mounting / Installation

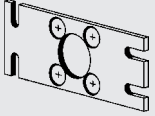
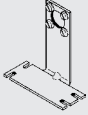

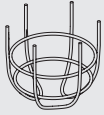
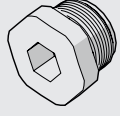

Connection type	Screw terminals, 3-pin
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Components

Drilled holes	2 x M20
Screw connections	1 x M20 x 1.5
Material of screw connections	Polyamide, black
Stopping plug	1 x M20 x 1.5
Stopping plug material	Polyamide, black
Wire guard	Can be ordered as accessories

You can find more technical data online at r-stahl.com. WebCode 6162A

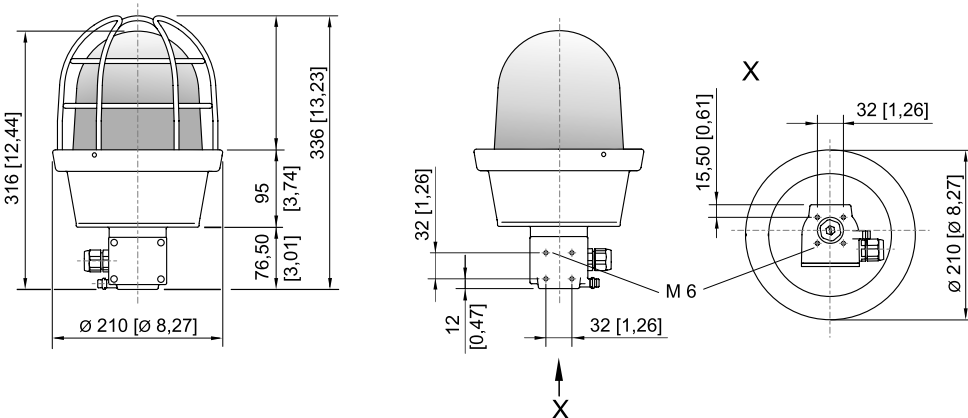
Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Mounting plate			
	material: stainless steel, includes mounting screws, for wall or floor mounting	120821 ▲	0.158
Mounting bracket			
	material: stainless steel, includes mounting screws	120930 ▲	0.450
Pipe clamp			
	R 1 1/2"	120920	0.560
	R 1 1/4"	120919	0.520
	R 2"	120921	0.600
Wire guard			
	material: stainless steel, includes mounting screws	120917	0.540
Stopping plug			
	8290/3-M20, 1 piece	143522	0.005
	8290/3-M20, 100 pieces	143543 ▲	0.500
Cable gland			
	8161/7-M20-1304 4 ... 13 mm ² , 50 pieces (delivery lot*)	239156 ▲	0.013

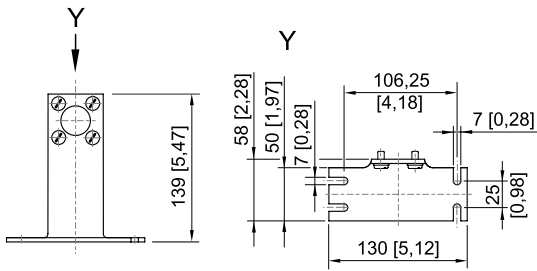
* Purchase order quantity in [pieces], the delivery quantity is automatically rounded to the delivery lot.

E5

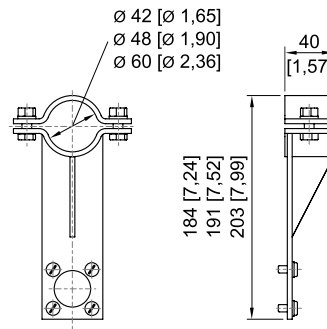
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



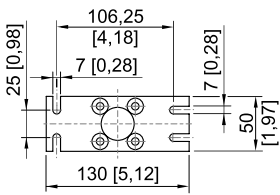
Signal beacon Series 6162



Mounting bracket



Pipe clamp



Mounting plate



- Corrosion-resistant, GRP Ex d enclosure
- Light weight enclosure
- Weather-resistant high performance red paint finish as standard, other colours available
- Break glass version supplied with test key
- Push button version supplied with reset key and lift flap
- Optional extras include stainless steel lift flap, duty and tag labels

WebCode **MCPA**







Yodalex range

Conventional manual call points designed for use in Hazardous or harsh environments. The devices provide a manual interface emergency switch for a number of applications. MCP BG is a single action break glass device which is activated by breaking the frangible glass pane on the front side of the call point; this provides the user with a distinct trigger signal. MCP PB is a latching, double action, push button call point. Both devices can be equipped with a number of variants and accessories.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•



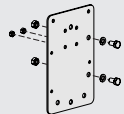

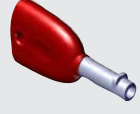
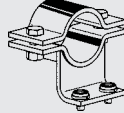


Selection Table							
Version	ATEX / IECEx		Cullet	Product Type	Art. No.	PS	Weight
Contacts			1 change-over contact				kg
Figure	Enclosure colour	Certificates					
	Blue (RAL 5015)	ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO)		MCP/BG/SP/Ex/A+B+C+D/EU/B	205330	80	1.530
	Green (RAL 6032)	ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO)		MCP/BG/SP/Ex/A+B+C+D/EU/G	214077	80	1.530
	Red (RAL 3001)	ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO)		MCP/BG/SP/Ex/A+B+C+D/EU/R	205324 ▲	80	1.530
		EAC (TehnoP), Russian Federation (TPB SER)		MCP/BG/SP/EX/A+B+C+D/RU/R	212402	80	1.530
	Yellow (RAL 1018)	ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO)		MCP/BG/SP/EX/A+B+C+D/EU/Y	253095	80	1.530

E5

Selection Table						
Version Contacts		Pushbutton 1 change-over contact				
Figure	Enclosure colour	Certificates	Product Type	Art. No.	PS	Weight kg
	Orange (RAL 2004)	ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO)	MCP/PB/SP/Ex/A+B+C+D/EU/O	259849	80	1.570
	Red (RAL 3001)	ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO)	MCP/PB/SP/Ex/A+B+C+D/EU/R	205334 ▲	80	1.570
		EAC (TehnoP), Russian Federation (TPB SER)	MCP/PB/SP/Ex/A+B+C+D/RU/R	206660	80	1.570
	Yellow (RAL 1018)	ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO)	MCP/PB/SP/Ex/A+B+C+D/EU/Y	258628	80	1.570
		EAC (TehnoP), Russian Federation (TPB SER)	MCP/PB/SP/Ex/A+B+C+D/RU/Y	208869	80	1.570
Version Contacts		Pushbutton 2 change-over contacts				
Figure	Enclosure colour	Certificates	Product Type	Art. No.	PS	Weight kg
	Red (RAL 3001)	ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO)	MCP/PB/DP/Ex/A+B+C+D/EU/R	208629	80	1.570

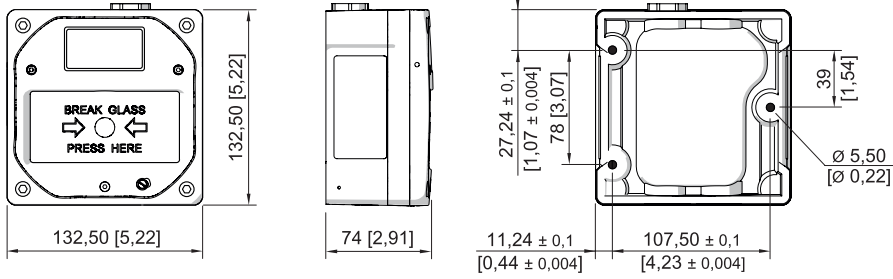
Technical Data	
Explosion Protection	
Ambient temperature °C	-40 ... +70 °C
Gas explosion protection IECEx	Ex d IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex d IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC TT85 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC TT85 °C Db
Electrical Data	
Rated operational voltage AC	12 – 250 V
Rated operational voltage DC	12 – 50 V
Mechanical Data	
Degree of protection IP (IEC 60529)	IP66
Enclosure material	Polyester (GRP), Glass fibre reinforced
Components	
Drilled holes	4 x M20
Screw connections	Can be ordered as accessories
Stopping plug	3 x M20 x 1.5
Stopping plug material	Brass
You can find more technical data online at r-stahl.com . WebCode MCPA	

E5

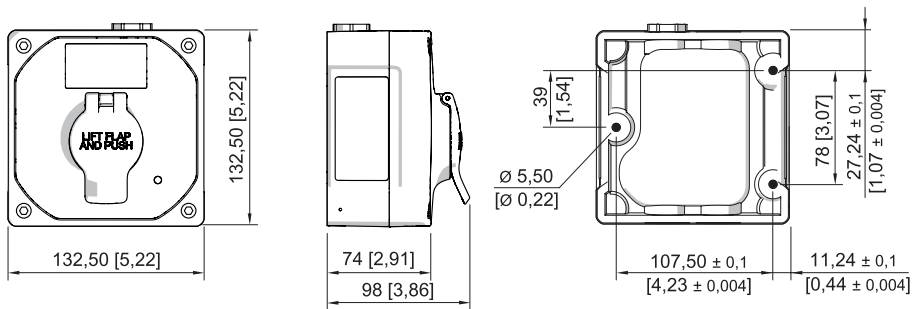
Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Cable glands made of metal			
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	0.200
Fastening set			
	Adaptor plate for use in combination with pipe clamps	257011	0.630
	Sun shield: Sun shield for use with adaptor plate	256520	0.350
Key			
	Reset key for push button device; replacement reset key; used to reset alarm after initiation	209531	0.240
	Test key for break glass device; replacement test key; used to trigger alarm without breaking glass panel	209532	0.050
Pipe clamp			
	R 1 1/2"	120819	0.470
	R 1 1/4"	120812	0.500
	R 2"	120823	0.500
Stopping plugs			
	Stopping plug VA M20x1,5 with internal hex	263665	0.034
	Stopping plug made of stainless steel M20x1,5 with external hexagon	251101 ▲	0.079
Window glass			
	Replacement break glass pane; for use after initiation of alarm. Pack of 5 pieces.	208727	0.110

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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Break glass manual call point



Push button manual call point

Type Code		
Variations		MCP / - / - / - / - / - / - / - / - / - / - / - / - / - / - / -
Version	break glass	BG
	push button	PB
Contacts	1 change over	SP
	2 change over	DP
Explosion protection	standard	Ex
Cable entries	standard 4 x M20 with 3 x Ex d stopping plugs and 1 x dust cap glands to be ordered separately	A+B+C+D
Certification	ATEX & IECEX	EU
	EAC TR +	RU
	Russian Fire certificate (break glass version only)	
Colour	red	R
	blue	B
	green	G
	yellow	Y
	orange	O
	black	BK
	grey	GR
	yellow / black stripe	YB
red / black stripe	RB	
Accessories	lift flap (break glass version only)	LF
	end of line resistor	EOL
	inline resistor	IL
	end of line and inline resistor	ILEOL
	LED signal	LED
Labels (please specify wording)	duty label	D
	tag label (TAG)	T
	duty label and tag label (TAG)	DT
Additional approvals		L

E5

TRANBERG SOLUTIONS



Product	Installation in Zone						Series	Page	WebCode
	0	1	2	20	21	22			
Components for Heating Systems									
Capillary Tube Thermostat – Pipe Mounted		•	•				TEF1058	727	T1058I
Capillary Tube Thermostat – Wall Mounted		•	•				TEF1058	725	T1058H
Enclosure Heater with Connection Line 120/240 V AC, T4		•	•				TEF9202	741	T9202A
Enclosure Heater with Connection Line 120 V AC, T4		•	•				TEF9209	755	T9209A
Enclosure Heater with Connection Line 240 V AC, T3		•	•				TEF9207	743	T9207A
Enclosure Heater with Connection Line 240 V AC, T4		•	•				TEF9208	749	T9208A
Enclosure Heater with Junction Box 120 V AC, T4		•	•				TEF9209	757	T9209B
Enclosure Heater with Junction Box 240 V AC, T3		•	•				TEF9207	745	T9207B
Enclosure Heater with Junction Box 240 V AC, T4		•	•				TEF9208	751	T9208B
Enclosure Heater with Junction Box and Thermostat 120 V AC, T4		•	•				TEF9209	759	T9209C
Enclosure Heater with Junction Box and Thermostat 240 V AC, T3		•	•				TEF9207	747	T9207C
Enclosure Heater with Junction Box and Thermostat 240 V AC, T4		•	•				TEF9208	753	T9208C
Junction Box – Pipe Mounted for Heat Tracing		•	•				TEF1058	721	T1058E
Junction Box – Pipe Mounted for Heat Tracing / De-Ice		•	•				TEF1058	723	T1058J
Junction Box – Wall Mounted for Heat Tracing		•	•				TEF1058	717	T1058F
Junction Box – Wall Mounted for Heat Tracing / De-Ice		•	•				TEF1058	719	T1058K
High Voltage Enclosure									
High Voltage Enclosure A-BLOCK SYSTEM		•	•				TEF1060	712	T1060A
High Voltage Enclosure BUS-BAR SYSTEM		•	•				TEF1060	714	T1060B
Lighting									
Helideck Floodlight LED		•	•				TEF9970	737	T9970A
Integrated Helideck Light Control Zone 1 or Non-Ex Versions		•					TEF4600	739	T4600A
Navigation Light Zone 2			•				TEF2870	729	T2870A
Obstruction Light LED		•	•				TEF2460	733	T2460A
Perimeter Light LED		•	•				TEF2460	731	T2460B
Status Light		•	•				TEF9980	735	T9980A

For additional products and information please refer to r-stahl.com



- Compact solutions
- Flexible design
- Up to 100A
- Up to 11kV
- CU bar for earthing
- Bottom side entries
- Can be used in Non Ex environments
- Safety cover IP2X
- Padlock facility
- ATEX and IECEx approved
- Up to 50 mm² (35 mm² with ferrules)
- Hinged door
- Suitable for DC solutions
- Optional: fiber Optical solutions, high voltage and low voltage terminals, Ex safety switch, Ex heater

WebCode **T1060A**



	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table

Enclosure material	1.4404 stainless steel, AISI 316L, pickled				
Rated operational voltage AC	2.2 – 2.2 kV				
Dimensions (WxHxD)	Type of terminals 1	Product Type	Art. No.	PS	
225 mm x 250 mm x 125 mm	6 x Phoenix UT 2-conductor, 6 mm ² , grey	TEF1063151	259405	70	
225 mm x 350 mm x 125 mm	16 x Phoenix UT 2-conductor, 6 mm ² , grey	TEF1063159	259380	70	
250 mm x 250 mm x 125 mm	6 x Phoenix UT 2-conductor, 16 mm ² , grey	TEF1063153	259399	70	
	6 x Phoenix UT 2-conductor, 35 mm ² , grey	TEF1063154	259398	70	
	9 x Phoenix UT 2-conductor, 16 mm ² , grey	TEF1063156	259394	70	
Enclosure material	1.4404 stainless steel, AISI 316L, pickled				
Rated operational voltage AC	3.5 – 3.5 kV				
Dimensions (WxHxD)	Type of terminals 1	Product Type	Art. No.	PS	
225 mm x 250 mm x 150 mm	6 x Phoenix UT 2-conductor, 6 mm ² , grey	TEF1063251	259402	70	
	9 x Phoenix UT 2-conductor, 6 mm ² , grey	TEF1063255	259397	70	
225 mm x 350 mm x 150 mm	16 x Phoenix UT 2-conductor, 6 mm ² , grey	TEF1063259	259379	70	
250 mm x 250 mm x 150 mm	6 x Phoenix UT 2-conductor, 16 mm ² , grey	TEF1063253	259396	70	
	6 x Phoenix UT 2-conductor, 35 mm ² , grey	TEF1063254	259395	70	
	9 x Phoenix UT 2-conductor, 16 mm ² , grey	TEF1063256	259393	70	

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Selection Table				
Enclosure material	1.4404 stainless steel, AISI 316L, pickled			
Rated operational voltage AC	6.9 – 6.9 kV			
Dimensions (WxHxD)	Type of terminals 1	Product Type	Art. No.	PS
250 mm x 300 mm x 210 mm	6 x Phoenix UT 2-conductor, 6 mm ² , grey	TEF1063351	259392	70
	6 x Phoenix UT 2-conductor, 16 mm ² , grey	TEF1063353	259390	70
	9 x Phoenix UT 2-conductor, 6 mm ² , grey	TEF1063355	259387	70
300 mm x 300 mm x 210 mm	9 x Phoenix UT 2-conductor, 16 mm ² , grey	TEF1063356	259383	70
300 mm x 350 mm x 210 mm	16 x Phoenix UT 2-conductor, 6 mm ² , grey	TEF1063359	259378	70

Technical Data	
Explosion Protection	
Ambient temperature °C	-25 ... +40 °C
Gas explosion protection IECEx	Ex eb IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex eb IIC T6 Gb
Ambient temperature °C 2	-25 ... +40 °C
Gas explosion protection IECEx 2	Ex eb IIC T5 Gb
Gas explosion protection ATEX 2	Ⓔ II 2 G Ex eb IIC T5 Gb
Mechanical Data	
Degree of protection (IP)	IP66
Silicone-free	Yes



- Standardized for bottom side entries
- All CU connection bars are tinned
- All products delivered with Tranberg cable glands
- Bright chemical dip surface treated
- Material: AISI316L
- ATEX and IECEx certified
- Up to 11kV
- Optional: lifting lugs (certified to Standard 2.7.1), short circuit devices, Tranberg enclosure heater with thermostat, cable cleats, optical fiber, padlock facility termination, Ex i safety switch, 3-phase or single core plug-in solution, Non-Ex solutions, customizing for top- or side entries, MCT frames, gland plates, Ex enclosure heater

WebCode **T1060B**



The High Voltage solution with tinned copper bus-bars combined with the use of Ex-certified Isolators.

3 different types of bus-bar solutions available:

- Type-R with rectangular bus-bar
- Type-C with rectangular bus-bar assembled in a curved frame system
- Type-G with G-profile bus-bar

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table

Product Description Enclosure version	High-voltage enclosure with busbars Type C - Solution (Curved Profile CU Bus-Bars)				
Rated operational current	Dimensions (WxHxD)	Type of terminals 1	Product Type	Art. No.	PS
2.1 – 2.1 kA	1500 mm x 1500 mm x 700 mm	3 x C-12H busbar Ø12-2100A-2x100/10	TEF1063425	259349	70
500 – 500 A	600 mm x 1000 mm x 400 mm	3 x C-6H busbar Ø10-500A	TEF1063416	259361	70
	700 mm x 1100 mm x 450 mm	3 x C-6H busbar Ø10-500A	TEF1063420	259355	70
	900 mm x 1100 mm x 500 mm	3 x C-6H busbar Ø10-500A	TEF1063424	259351	70
950 – 950 A	675 mm x 1100 mm x 400 mm	3 x C-8H busbar Ø10-950A-100/10	TEF1063419	259358	70
	800 mm x 1100 mm x 450 mm	3 x C-8H busbar Ø10-950A-100/10	TEF1063423	259352	70
Product Description Enclosure version	High-voltage enclosure with busbars Type G - Solution (G-Profile CU Bus-Bars)				
Rated operational current	Dimensions (WxHxD)	Type of terminals 1	Product Type	Art. No.	PS
490 – 490 A	500 mm x 950 mm x 350 mm	3 x G-4H busbar Ø10-490A	TEF1063443	259372	70
	600 mm x 1000 mm x 400 mm	3 x G-4H busbar Ø10-490A	TEF1063445	259365	70
	750 mm x 1200 mm x 500 mm	3 x G-4H busbar Ø10-490A	TEF1063447	259357	70

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Selection Table					
Product Description Enclosure version		High-voltage enclosure with busbars Type G - Solution (G-Profile CU Bus-Bars)			
Rated operational current	Dimensions (WxHxD)	Type of terminals 1	Product Type	Art. No.	PS
850 – 850 A	550 mm x 950 mm x 350 mm	3 x G-4H busbar Ø10-850A-100/10	TEF1063444	259370	70
	700 mm x 1000 mm x 400 mm	3 x G-4H busbar Ø10-850A-100/10	TEF1063446	259364	70
	800 mm x 1200 mm x 500 mm	3 x G-4H busbar Ø10-850A-100/10	TEF1063448	259356	70
Product Description Enclosure version		High-voltage enclosure with busbars Type R - Solution (Rectangular CU Bus-Bars)			
Rated operational current	Dimensions (WxHxD)	Type of terminals 1	Product Type	Art. No.	PS
250 – 250 A	450 mm x 550 mm x 200 mm	3 x R-2H busbar Ø8-250A-30/10	TEF1063401	259377	70
	500 mm x 650 mm x 275 mm	3 x R-2H busbar Ø8-250A-30/10	TEF1063403	259374	70
	625 mm x 900 mm x 300 mm	3 x R-2H busbar Ø8-250A-30/10	TEF1063405	259369	70
430 – 430 A	625 mm x 900 mm x 300 mm	3 x R-2H busbar Ø10-432A	TEF1063406	259368	70
432 – 432 A	450 mm x 550 mm x 200 mm	3 x R-2H busbar Ø10-432A	TEF1063402	259376	70
	500 mm x 650 mm x 275 mm	3 x R-2H busbar Ø10-432A	TEF1063404	259373	70

Technical Data	
Explosion Protection	
Ambient temperature °C	-20 ... +40 °C
Gas explosion protection IECEx	Ex eb IIC T6 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex eb IIC T6 Gb
Ambient temperature °C 2	-20 ... +40 °C
Gas explosion protection IECEx 2	Ex eb IIC T5 Gb
Gas explosion protection ATEX 2	⊕ II 2 G Ex eb IIC T5 Gb
Electrical Data	
Rated operational voltage AC	3.5 – 3.5 kV
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	1.4404 stainless steel, AISI 316L, pickled
Silicone-free	Yes



R-Profile

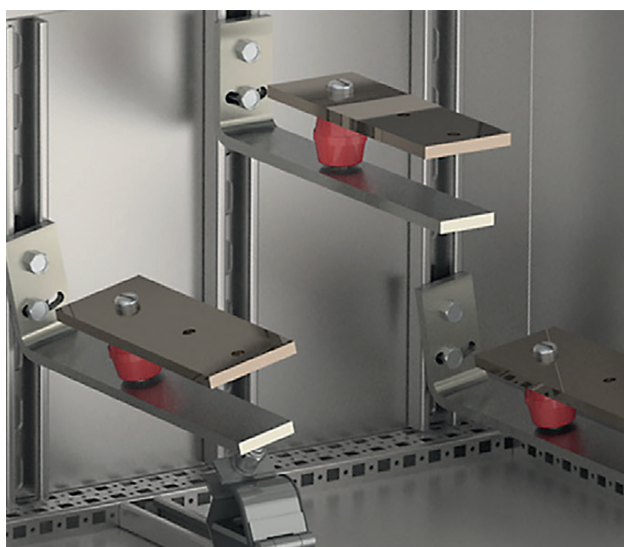
- Designed for one cable in and one cable out each phase
- A cost effective solution
- Designed for 300 mm²
- Available with certified cable cleats
- Withstand short-circuit for even 50 kA



G-Profile

- Compact solutions
- Designed for even 4 cables each phase
- Max. 300 mm²
- Withstand short-circuit for even 50 kA
- Max. current load 960 A

E6



C-Profile (Curved)

- Easy installation
- Adjustable bars to compensate for bending radius
- Can be delivered up to 2100 A
- "Unlimited" numbers of cables



- High degree of protection, IP66/67, IP67 without breather
- Manufactured in acid proof stainless steel (AISI 316L)
- Stainless steel Type Label spot welded to the cover
- Several earthing alternatives
- Maximum strength and corrosion resistance
- High operational reliability
- Low lifetime maintenance cost
- Recommended for up to 2 heating cables

WebCode **T1058F**



Tranberg heat trace boxes are represented in most of the oil installations in the North Sea, petrochemical industries and other industries subjected to rough environments. Tranberg has designed and manufactured heat tracing equipment and heating applications for rough environments for more than 25 years. Our product range includes a number of different heat tracing junction boxes.

Zone	ATEX / IECEx					
	0	1	2	20	21	22
Installation in		•	•			

Selection Table				
Enclosure material	1.4404 stainless steel, (AISI 316L), electropolished			
Description	Product Type	Art. No.	PS	
Junction box with 1 pc. cable gland E204/622 M25/D9 (Ø13 – 17 mm) 1 pc. stopping plug M25 1 pc. breather M25	TEF10581138	259489	70	
Junction box with 4 pc. Ø25 entries (with temporary plugs) Note: Label Kit not included	TEF10581128	259488	70	
Enclosure material	1.4404 stainless steel, AISI 316L, pickled			
Description	Product Type	Art. No.	PS	
Junction box with 1 pc. cable gland E204/622 M25/D9 (Ø13 – 17 mm) 1 pc. stopping plug M25 1 pc. breather M25	TEF10581118	259487	70	
Junction box with 4 pc. Ø25 entries (with temporary plugs) Note: Label Kit not included	TEF10581108	259486	70	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex eb IIC T5 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex eb IIC T5 Gb
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C

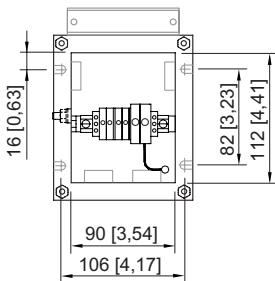
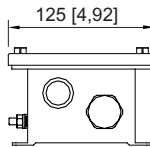
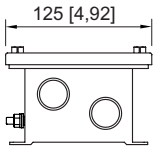
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Technical Data

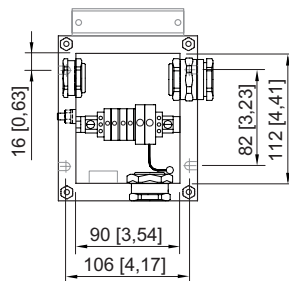
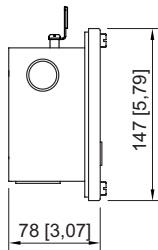
Mechanical Data

Degree of protection (IP)	IP66
Degree of protection IP (IEC 60529)	IP67
Silicone-free	No
Clamping range max.	4 mm ²
Connection cross-section	4 mm ²

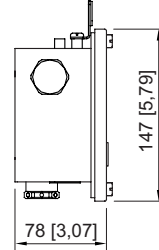
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



TEF10581108 and TEF10581128



TEF10581118 and TEF10581138





- High degree of protection, IP66/67, IP67 without breather
- Manufactured in acid proof stainless steel (AISI 316L)
- Stainless steel Type Label spot welded to the cover
- Several earthing alternatives
- Maximum strength and corrosion resistance
- High operational reliability
- Low lifetime maintenance cost
- Recommended for up to 2 heating cables

WebCode **T1058K**



Tranberg heat trace boxes are represented in most of the oil installations in the North Sea, petrochemical industry and other industries subjected to rough environments. Tranberg has designed and manufactured heat tracing equipment and heating applications for rough environments for more than 25 years. Our product range includes a number of different heat tracing junction boxes.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table				
Enclosure material	1.4404 stainless steel, (AISI 316L), electropolished			
Description	Product Type	Art. No.	PS	
Junction box with 2 pc. cable glands E204/622 M25/D9 (Ø13 – 17 mm) 2 pc. stopping plugs 1 pc. breather 2 pc. temporary plugs	TEF10581638	259493	70	
Junction box with 7 pc. Ø25 entries (with temporary plugs) Note: Label Kit not included	TEF10581648	259492	70	
Enclosure material	1.4404 stainless steel, AISI 316L, pickled			
Description	Product Type	Art. No.	PS	
Junction box with 2 pc. cable glands E204/622 M25/D9 (Ø13 – 17 mm) 2 pc. stopping plugs 1 pc. breather 2 pc. temporary plugs	TEF10581618	259491	70	
Junction box with 7 pc. Ø25 entries (with temporary plugs) Note: Label Kit not included	TEF10581608	259490	70	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex eb IIC T5 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex eb IIC T5 Gb
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C

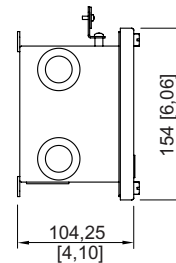
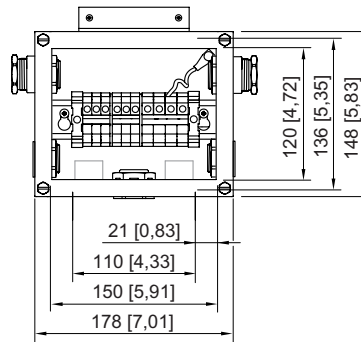
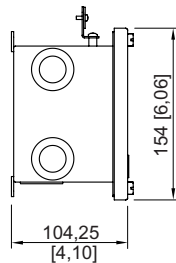
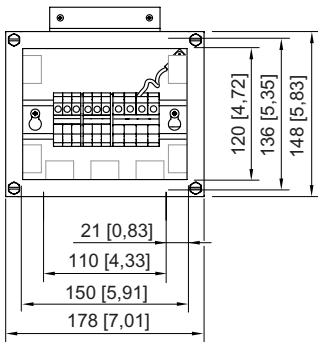
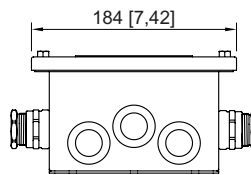
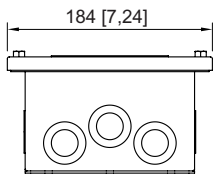
E6

Technical Data

Mechanical Data

Degree of protection (IP)	IP66
Degree of protection IP (IEC 60529)	IP67
Silicone-free	No
Clamping range max.	6 mm ²
Connection cross-section	6 mm ²

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



TEF10581618 and TEF10581638

TEF10581608 and TEF10581648



- High degree of protection, IP66/67, IP67 without breather
- Manufactured in acid proof stainless steel (AISI 316L)
- Stainless steel Type Label spot welded to the cover
- Several earthing alternatives
- Maximum strength and corrosion resistance
- High operational reliability
- Low lifetime maintenance cost
- Recommended for up to 2 heating cables

WebCode **T1058E**



Tranberg heat trace boxes are represented in most of the oil installations in the North Sea, petrochemical industry and other industries subjected to rough environments. Tranberg has designed and manufactured heat tracing equipment and heating applications for rough environments for more than 25 years. Our product range includes a number of different heat tracing junction boxes.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table				
Enclosure material	1.4404 stainless steel, (AISI 316L), electropolished			
Description	Product Type	Art. No.	PS	
Junction box with 1 pc. cable gland E204/622 M25/D9 (Ø13 – 17 mm) 1 pc. stopping plug M25 1 pc. breather M25	TEF10581136	259481	70	
Junction box with 4 pc. Ø25 entries Note: Label kit not included	TEF10581126	259480	70	
Enclosure material	1.4404 stainless steel, AISI 316L, pickled			
Description	Product Type	Art. No.	PS	
Junction box with 1 pc. cable gland E204/622 M25/D9 (Ø13 – 17 mm) 1 pc. stopping plug M25 1 pc. breather M25	TEF10581116	259479	70	
Junction box with 4 pc. Ø25 entries Note: Label kit not included	TEF10581106	259478	70	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex eb IIC T5 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex eb IIC T5 Gb
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C

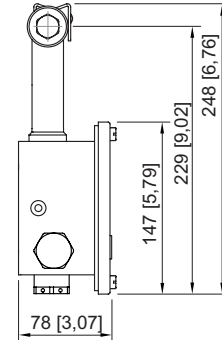
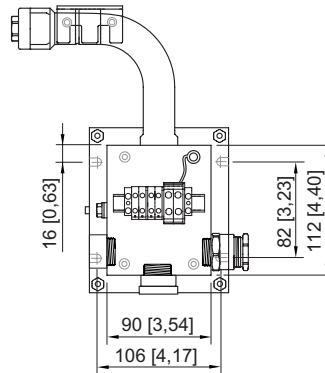
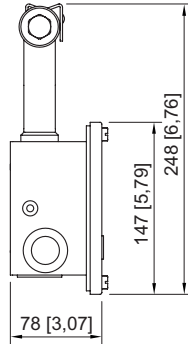
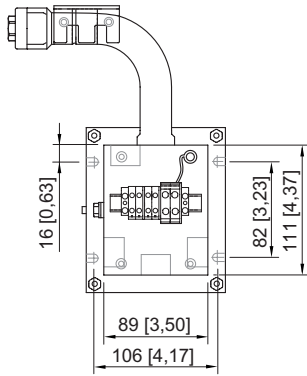
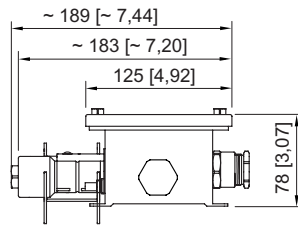
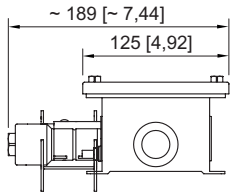
E6

Technical Data

Mechanical Data

Degree of protection (IP)	IP66
Degree of protection IP (IEC 60529)	IP67
Silicone-free	No
Clamping range max.	4 mm ²
Connection cross-section	4 mm ²

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



TEF10581106 and TEF10581126

TEF10581116 and TEF10581136



- High degree of protection, IP66/67, IP67 without breather
- Manufactured in acid proof stainless steel (AISI 316L)
- Stainless steel Type Label spot welded to the cover
- Several earthing alternatives
- Maximum strength and corrosion resistance
- High operational reliability
- Low lifetime maintenance cost
- Recommended for up to 4 heating cables

WebCode **T1058J**



Tranberg heat trace boxes are represented in most of the oil installations in the North Sea, petrochemical industry and other industries subjected to rough environments. Tranberg has designed and manufactured heat tracing equipment and heating applications for rough environments for more than 25 years. Our product range includes a number of different heat tracing junction boxes.

Zone	ATEX / IECEx					
	0	1	2	20	21	22
Installation in		•	•			

Selection Table				
Enclosure material	1.4404 stainless steel, (AISI 316L), electropolished			
Description	Product Type	Art. No.	PS	
Junction box with 2 pc. cable glands E204/622 M25/D9 (Ø13 – 17 mm) 2 pc. stopping plugs M25 1 pc. breather M25	TEF10581636	259484	70	
Junction box with 5 pc. Ø25 entries (with temporary plugs) Note: Label kit not included	TEF10581646	259485	70	
Enclosure material	1.4404 stainless steel, AISI 316L, pickled			
Description	Product Type	Art. No.	PS	
Junction box with 2 pc. cable glands E204/622 M25/D9 (Ø13 – 17 mm) 2 pc. stopping plugs M25 1 pc. breather M25	TEF10581616	259483	70	
Junction box with 5 pc. Ø25 entries (with temporary plugs) Note: Label kit not included	TEF10581606	259482	70	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex eb IIC T5 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex eb IIC T5 Gb
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C

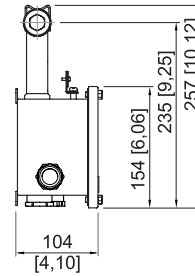
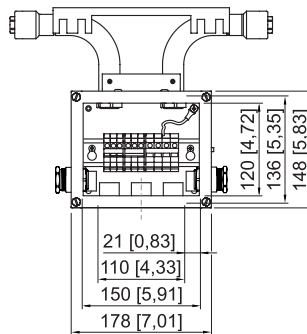
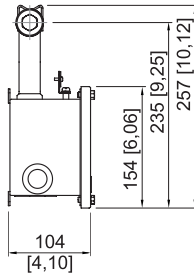
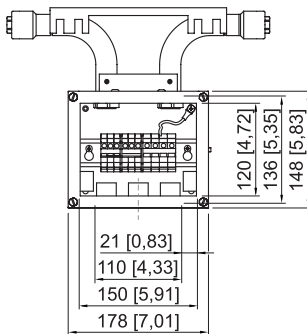
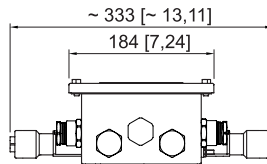
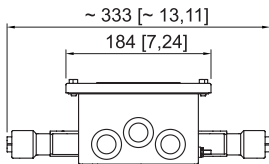
E6

Technical Data

Mechanical Data

Degree of protection (IP)	IP66
Silicone-free	No
Clamping range max.	6 mm ²
Connection cross-section	6 mm ²

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



TEF10581606 and TEF10581646

TEF10581616 and TEF10581636



- High degree of protection IP66/67 is standard, IP67 without breather
- Manufactured in acid proof stainless steel (AISI 316L)
- Stainless steel type label spot welded to the cover
- Several earthing alternatives
- Maximum strength and corrosion resistance
- High operational reliability
- Low lifetime maintenance cost
- Recommended for up to 4 heating cables

WebCode **T1058H**



Tranberg's thermostats are represented in most of the oil installations in the North Sea, petrochemical industry and other industries subjected to rough environments.

Tranberg has designed and manufactured heat tracing equipment and heating applications for rough environments for more than 25 years.

Our product range includes a number of different heat tracing junction boxes.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table						
Product Description		Temperature controller wall mounting				
Measuring range min.	Measuring range max.	Contacts	Product Type	Art. No.	PS	
+50 °C	+300 °C	1 change-over contact	TEF10582583	259556	70	
-20 °C	+50 °C	1 change-over contact	TEF10582580	259553	70	
0 °C	+120 °C	1 change-over contact	TEF10582581	259554	70	
0 °C	+200 °C	1 change-over contact	TEF10582582	259555	70	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex db eb IIC T6
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC T6
Electrical Data	
Rated operational voltage AC	230 V
Rated operational current	16 A
Output	
Output max. load AC	L-2 16 (2.5) A cos φ 1 (0.6) L-4 2 (0.4) A cos φ 1 (0.6)
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C
Mechanical Data	
Degree of protection (IP)	IP66 / IP67
Enclosure material	1.4404 stainless steel, Electropolished

E6

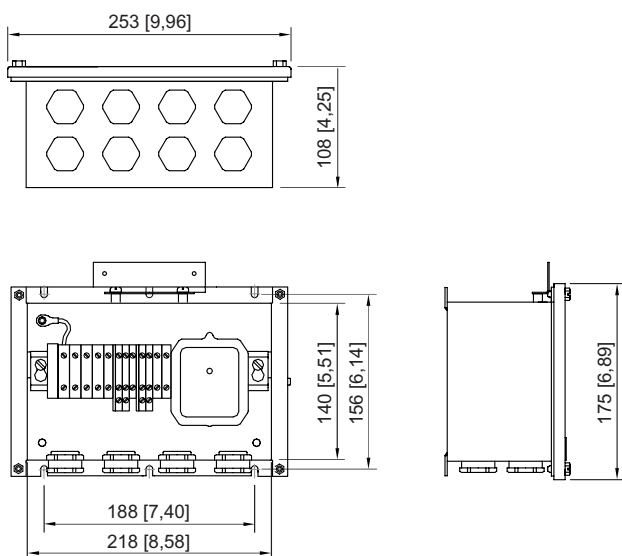
Technical Data

Components	
Screw connections	1 x M25 Ø 13 – 17 mm
Stopping plug	8 x M25 x 1.5
Type of terminals 1	3 x Supply 2-conductor, 10 mm ² , grey
Type of terminals 2	5 x Output terminal 2-conductor, 2.5 mm ² , grey
Type of terminals PE 1	4 x Phoenix USLKG 2-conductor, 10 mm ² , green-yellow

Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Cable gland Ex e			
	E204/622 M25/D1/9 mm (Ø 15 – 20.1 mm), with lock nut	259237	-
	E204/622 M25/D9/9 mm (Ø 13 – 17 mm), with lock nut	259253	-
Connection kit, wall mounting			
	5x11 / 5x15, M28x1 COLD for all Raychem cables	264288	-
	5x11 / 5x15, M28x1 HOT for all Raychem cables	264289	-
Termination kit, wall mounting			
	5x15, M28x1, HOT for Raychem cables 8BTV-10BTV-20QTV-XTV-KTV	264297	-
	5x15, M28x1, COLD for Raychem cables 8BTV-10BTV-20QTV-XTV-KTV	264298	-
	5x11, M28x1, HOT for Raychem cables 3BTV-5BTV-10QTV-15QTV-XTV-KTV-VPL	264293	-
	5x11, M28x1, COLD for Raychem cables 3BTV-5BTV-10QTV-15QTV-XTV-KTV-VPL	264295	-

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



E6



- High degree of protection IP66/67 is standard, IP67 without breather
- Manufactured in acid proof stainless steel (AISI 316L)
- Stainless steel type label spot welded to the cover
- Several earthing alternatives
- Maximum strength and corrosion resistance
- High operational reliability
- Low lifetime maintenance cost
- Recommended for up to 4 heating cables

WebCode **T1058I**



Tranberg's thermostats are represented in most of the oil installations in the North Sea, petrochemical industry and other industries subjected to rough environments.

Tranberg has designed and manufactured heat tracing equipment and heating applications for rough environments for more than 25 years.

Our product range includes a number of different heat tracing junction boxes.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table						
Product Description		Temperature controller for pipe mounting				
Measuring range max.	Measuring range min.	Contacts	Product Type	Art. No.	PS	
+50 °C	-20 °C	1 change-over contact	TEF10582560	259549	70	
+120 °C	0 °C	1 change-over contact	TEF10582561	259550	70	
+200 °C	0 °C	1 change-over contact	TEF10582562	259551	70	
+300 °C	+50 °C	1 change-over contact	TEF10582563	259552	70	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex db eb IIC T6
Gas explosion protection ATEX	⊕ II 2 G Ex db eb IIC T6
Electrical Data	
Rated operational voltage AC	230 V
Rated operational current	16 A
Output	
Output max. load AC	L-4 2 (0.4) A cos φ 1 (0.6) L-2 16 (2.5) A cos φ 1 (0.6)
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C
Mechanical Data	
Degree of protection (IP)	IP66 / IP67
Enclosure material	1.4404 stainless steel, Electropolished

E6

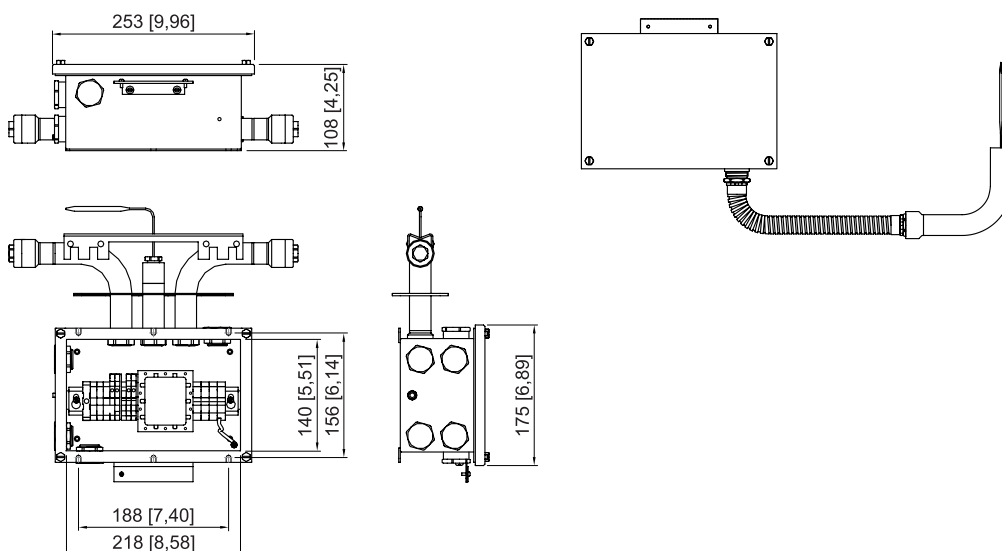
Technical Data

Components	
Screw connections	1 x M25 Ø 13 – 17 mm
Stopping plug	6 x M25 x 1.5
Type of terminals 1	3 x Supply 2-conductor, 10 mm ² , grey
Type of terminals 2	5 x Output terminal 2-conductor, 2.5 mm ² , grey
Type of terminals PE 1	4 x Phoenix USLKG 2-conductor, 10 mm ² , green-yellow

Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Cable gland Ex e			
	E204/622 M25/D1/9 mm (Ø 15 – 20.1 mm), with lock nut	259237	-
	E204/622 M25/D9/9 mm (Ø 13 – 17 mm), with lock nut	259253	-
Connection kit, pipe mounting			
	5x11 / 5x15, M28x1 COLD for all Raychem cables	264286	-
	5x11 / 5x15, M28x1 HOT for all Raychem cables	264287	-
Termination kit, pipe mounting			
	5x15, M28x1, COLD for Raychem cables 8BTV-10BTV-20QTV-XTV-KTV	264296	-
	5x15, M28x1, HOT for Raychem cables 8BTV-10BTV-20QTV-XTV-KTV	264299	-
	5x11, M28x1, HOT for Raychem cables 3BTV-5BTV-10QTV-15QTV-XTV-KTV-VPL	264292	-
	5x11, M28x1, COLD for Raychem cables 3BTV-5BTV-10QTV-15QTV-XTV-KTV-VPL	264294	-

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



E6



- Integrated terminal box, no need for extra connection box
- Access to bulb from top - enabling quick replacement of light source
- Supplied with isolators to be used between the lantern and hull/mast (such as aluminium) to prevent corrosion
- Durable bracket in stainless steel (SS316L) can be used when installing the lantern on 1" or 2" pipes
- 20 years warranty on lantern
- Extremely durable to mechanical deterioration
- Designed for use in arctic and tropical waters
- Small dimensions
- Resistant to vibrations
- Lens of through-coloured glass – no decolouration throughout the lifetime of the lantern
- The lens can easily be cleaned for paint, bird droppings, pollution and oil

WebCode **T2870A**



Extensively tested in rough environments, navigation lights from Tranberg are the obvious choice by many vessel designers, ship owners and yards throughout the world. Our products and services meet the highest quality standards, perform reliably and efficiently to exceed customers' expectations and assure market competitiveness.

The design of Tranberg's navigation lights is based on many years of experience and research in the field of professional Marine lighting. Carefully selected materials are used to ensure maximum performance, low maintenance and long trouble free life.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in			•			

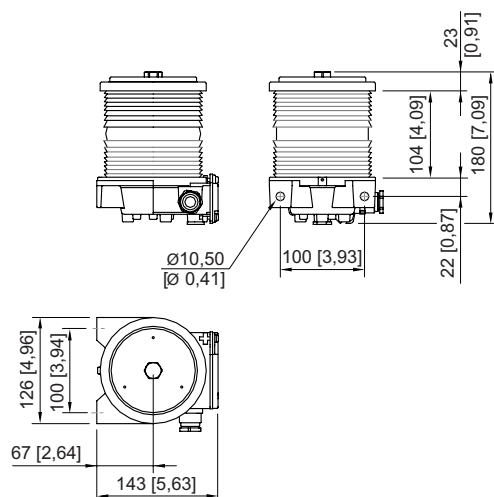
Selection Table						
Power	40.00 - 40.00 W					
Lamp type	Opening angle	Colour of glass	Product Type	Art. No.	PS	
1/2 allround light	181 °	White	TEF28705119	242131	70	
		Green	TEF28706119	242141	70	
		Red	TEF28707119	242147	70	
Allround light	360 °	White	TEF28705109	242130	70	
		Green	TEF28706109	242140	70	
		Red	TEF28707109	242146	70	
Masthead	225 °	White	TEF28700019	242123	70	
Port	112.5 °	Red	TEF28702019	242125	70	
Starboard	112.5 °	Green	TEF28701019	242124	70	
Stern	135 °	White	TEF28703019	242126	70	
Stern cleats	135 °	Yellow	TEF28703319	242128	70	
Suez stern light	135 °	Red	TEF28703219	242127	70	

E6

Technical Data

Explosion Protection	
Gas explosion protection IECEx	Ex nR IIC T5 Gc
Gas explosion protection ATEX	⊕ II 3 G Ex nR IIC T5 Gc
Electrical Data	
Rated operational voltage AC	24 – 24 V
Ambient Conditions	
Ambient temperature	-52 °C ... +50 °C
Lighting Data	
Lamp	P28S lamp base
Mechanical Data	
Enclosure material	Brass
Material dome	Lens made of stained glass
Type of connection cable	Finely stranded Solid
Degree of protection (IP)	IP56
Components	
Drilled holes	1 x M20
Screw connections	1 x M20 Ø 6.5 – 14 mm

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



E6



- Integrated terminal box with
- drain plug/breather
- Low maintenance
- Rugged construction
- Encapsulated electronics. No risk
- of water intrusion to LED's and electronics
- Instant light
- Resistant to vibrations

WebCode **T2460B**



Tranberg luminaires are all designed for use in rough environments. It is the policy of Tranberg to provide products and services that meet the highest standards of quality in the industry and the performance needs and expectations of our customers. The design of Tranberg luminaires is based on many years of experience and extensive research in the field of professional Marine lighting. Carefully selected materials are used to ensure maximum performance, low maintenance and a long trouble free life.

Applications:

- Perimeter lights on helideck. Green (100-254 V AC/ 24V DC) or red/green light (24V DC only)
- Zone 1, Zone 2 and safe area

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table				
Rated operational voltage AC	100 – 254 V			
Lamp	Product Type	Art. No.	PS	
Green LED	TEF2460150	241034	70	
Rated operational voltage DC	24 – 24 V			
Lamp	Product Type	Art. No.	PS	
Green / red LED	TEF2460153	241036	70	
Green LED	TEF2460152	241035	70	

Technical Data	
Explosion Protection	
Ambient temperature °C	-55 ... +55 °C
Gas explosion protection IECEx	Ex e mb op is IIC T5 Gb
Gas explosion protection ATEX	Ex e mb op is IIC T5 Gb
Electrical Data	
Power	4 – 4 W
Lighting Data	
Effective luminous intensity	30 cd

E6

Technical Data

Mechanical Data

Degree of protection (IP)	IP66
Enclosure material	Brass, Hot-forged
Connection terminals solid max.	4 mm ²
Connection terminals finely-stranded max.	2.5 mm ²
Type of connection cable	Finely stranded Solid

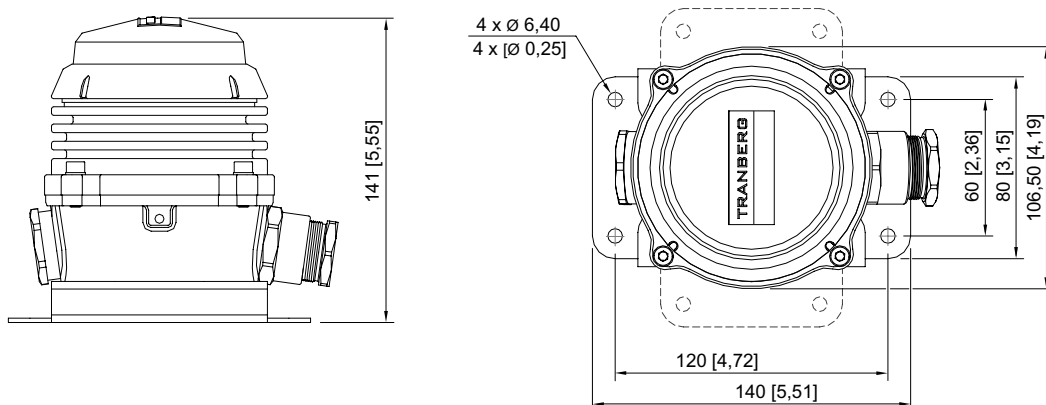
Components

Drilled holes	2 x M25
Screw connections	Can be ordered as accessories
Stopping plug	Can be ordered as accessories

Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Glas dome			
	Glas dome	241037	-

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



E6



- Complies with: ICAO Annex 14 Vol. 1 Ch. 6, Low intensity type A or B
- Integrated terminal box with drain plug/breather
- Maintenance free
- Rugged construction
- Encapsulated electronics. No risk of water intrusion to LED's and electronics
- RED+IR Versions are Night Vision Goggle compatible.
- Instant light
- Resistant to vibrations

WebCode **T2460A**



Tranberg luminaires are all designed for use in rough environments. It is the policy of Tranberg to provide products and services that meet the highest standards of quality in the industry and the performance needs and expectations of our customers. The design of Tranberg luminaires is based on many years of experience and extensive research in the field of professional Marine lighting. Carefully selected materials are used to ensure maximum performance, low maintenance and a long trouble free life.

Applications:

- Obstruction light
- General marking / warning light
- Zone 1, Zone 2 and safe area

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table					
Rated operational voltage AC	100 – 254 V				
Effective luminous intensity	Lamp	Product Type	Art. No.	PS	
10 cd	Red LED	TEF2460165	240989	70	
32 cd	Red LED	TEF2460160	241027	70	
Rated operational voltage DC	24 – 24 V				
Effective luminous intensity	Lamp	Product Type	Art. No.	PS	
10 cd	Red LED	TEF2460166	240990	70	
	Red LED + IR	TEF2460168	241032	70	
32 cd	Red LED	TEF2460162	240988	70	
	Red LED + IR	TEF2460167	241031	70	

Technical Data	
Explosion Protection	
Ambient temperature °C	-55 ... +55 °C
Gas explosion protection IECEx	Ex e mb op is IIC T5 Gb
Gas explosion protection ATEX	Ex e mb op is IIC T5 Gb

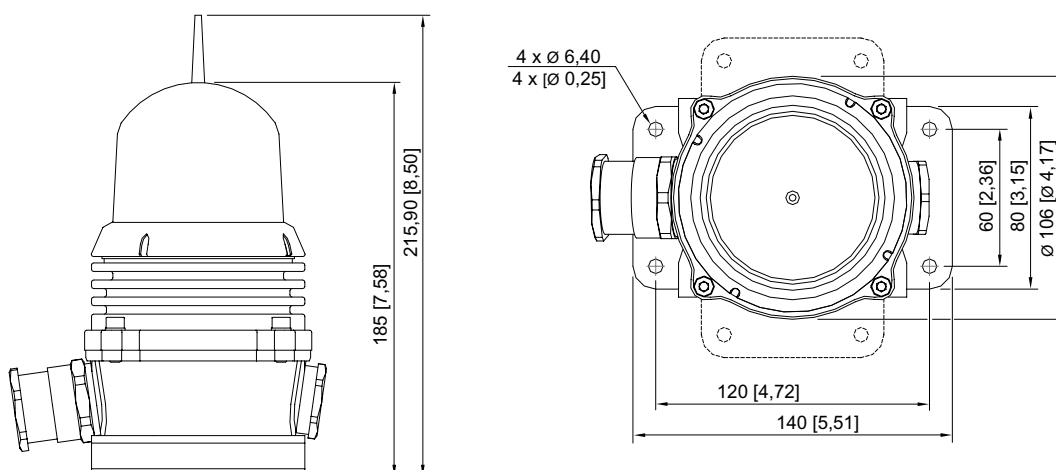
E6

Technical Data	
Electrical Data	
Power	10 – 10 W
Mechanical Data	
Enclosure material	Brass, Hot-forged
Connection terminals solid max.	4 mm ²
Connection terminals finely-stranded max.	2.5 mm ²
Type of connection cable	Finely stranded Solid
Components	
Drilled holes	2 x M25
Screw connections	Can be ordered as accessories
Stopping plug	Can be ordered as accessories
Notes	Delivered with one cable gland and one stopping plug.

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Cable gland			
	M25 Ø 11 ... 15 / 15 ... 20 mm	241042	-
Dome with gasket			
	Dome with gasket	241040	-
Screw			
	M5x16 stepped shank	241045	-
Stopping plug			
	M25	241043	-
	TEF7302101 Drain Plug M25-9mm	169899	-
Terminal insert			
	Terminal insert	241041	-

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

E6





- Status light as described in CAA UK CAP437, NORMAM-27/DPC and 2009 MODU Code
- Height of light units <25 cm. Allows for on-deck installation
- Automatic monitoring of all light units when in combination with Tranberg control system. No need for redundancy units
- Maintenance free
- Night vision goggle (NVG) compatible
- Low power consumption: Main light, 30 W and Repeater light 2.6 W

WebCode **T9980A**



The TEF9980 Status lights are designed to fulfil the latest requirements of CAA UK CAP 437, as well as operator's needs for products that are cost-effective, reliable, require no maintenance and are applicable for use in all environments.

The TEF 9980 Status light is available as a main light and as a repeater light. Both versions are fully monitored, which eliminates the light units' redundancy need. In combination with Tranberg control system the lights can be set up for automatic test intervals, timeouts for both dim level diagnostics.

A status light system should be installed if a condition can exist on an installation which may be hazardous for the helicopter or its occupants. The system should be a flashing red light (or lights), visible to the pilot from any direction of approach and on any landing heading. The aeronautical meaning of a flashing red light is either "do not land, aerodrome not available for landing" or "move clear of landing area". The system should be automatically initiated at the appropriate hazard level (e.g. impending gas release)

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table							
Power	30.00 - 30.00 W						
Product Description	Width	Height	Length	Product Type	Art. No.	PS	
Main light for helicopter deck	263 mm	245 mm	200 mm	TEF9980000	262975	70	
Repeater light for helicopter deck	263 mm	245 mm	200 mm	TEF9980005	262976	70	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex db op is IIB+H2 T5 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db op is IIB+H2 T5 Gb
Electrical Data	
Rated operational voltage DC	16 - 32 V
Ambient Conditions	
Ambient temperature	-40 °C ... +55 °C
Lighting Data	
Lamp	Red LED + IR

E6

Technical Data

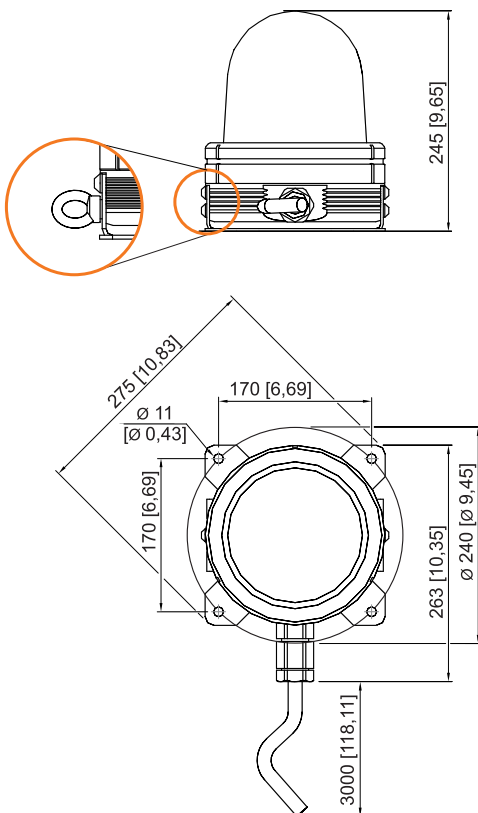
Mechanical Data

Degree of protection (IP)	IP66
Degree of protection IP (IEC 60529)	IP67
Enclosure material	Aluminium, powder-coated, Seawater-resistant
Material mounting parts	Stainless steel
Material dome	Glass Temperature-resistant
Conductor length	3 m
Type of connection cable	BFOU 0.6/1.2kV P5/P12

Mounting / Installation

Connection type	Connection line
-----------------	-----------------

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



E6



- Floodlight for helideck landing areas
- For use in hazardous areas
- Floodlighting
- Rugged and low profile floodlight made from marine proofed aluminium
- Sealed for life
- Simple to install and maintain
- Light module is maintenance free
- Proven degree of protection
- Resistant to vibrations
- Complies with: ICAO Annex 14 Vol. II; NORSOK C-004 201

WebCode **T9970A**



Luminaires designed and manufactured by Tranberg are intended for use in rough environments, and to meet applicable international standards. The new LED floodlight TEF 9970 by Tranberg sets a new standard in the industry as it has a wider operating temperature range, along with several new features.

The LED light source provides a hugely longer lifetime expectancy than xenon light bulbs, while the special designed optics ensure an ideal coverage of the helideck surface without giving glare to pilots in the critical landing process. As an option, a dimming functionality may be installed, which reduces light output to 50% when and if required.

The operating voltage span is wide, and absorbs voltage variances and spikes without resulting in flickering or changes in light output. The innovative design is also great news for service and maintenance personnel, as it is a sealed unit which requires noinspection of traditional flame paths. Helideck equipment manufactured by Tranberg is delivered to offshore installations, oil tankers and supply ships, hotels and hospitals landing areas all over the world.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table				
Product Description	Helideck LED floodlight			
Light distribution	Product Type	Art. No.	PS	
Medium-beam	TEF9970200	262996	70	
Narrow-beam	TEF9970300	262997	70	
Wide beam	TEF9970100	251936	99	

Technical Data	
Explosion Protection	
Ambient temperature °C	-55 ... +40 °C
Gas explosion protection IECEx	Ex db eb op is IIB+H2 T5 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex db eb op is IIB+H2 T5 Gb
Ambient temperature °C 2	-55 ... +55 °C
Gas explosion protection IECEx 2	Ex db eb op is IIB+H2 T4 Gb
Gas explosion protection ATEX 2	⊕ II 2 G Ex db eb op is IIB+H2 T4 Gb

E6

Technical Data

Electrical Data

Rated operational voltage AC	100 – 277 V
Rated operational voltage DC	145 – 380 V
Rated operational current	0.7 A
Frequency range	50 – 60 Hz
Lamp wattage	45 W

Ambient Conditions

Service temperature min.	-40 °C
Service temperature max.	+55 °C

Lighting Data

Lamp	LED
Luminaire efficacy	68 lm/W
Luminous flux	3100 lm
Colour temperature	4000 K

Mechanical Data

Degree of protection IP (IEC 60529)	IP66
Enclosure material	Salt water-resistant, Powder-coated
Lens material	Borosilicate glass
Mounting	With bracket

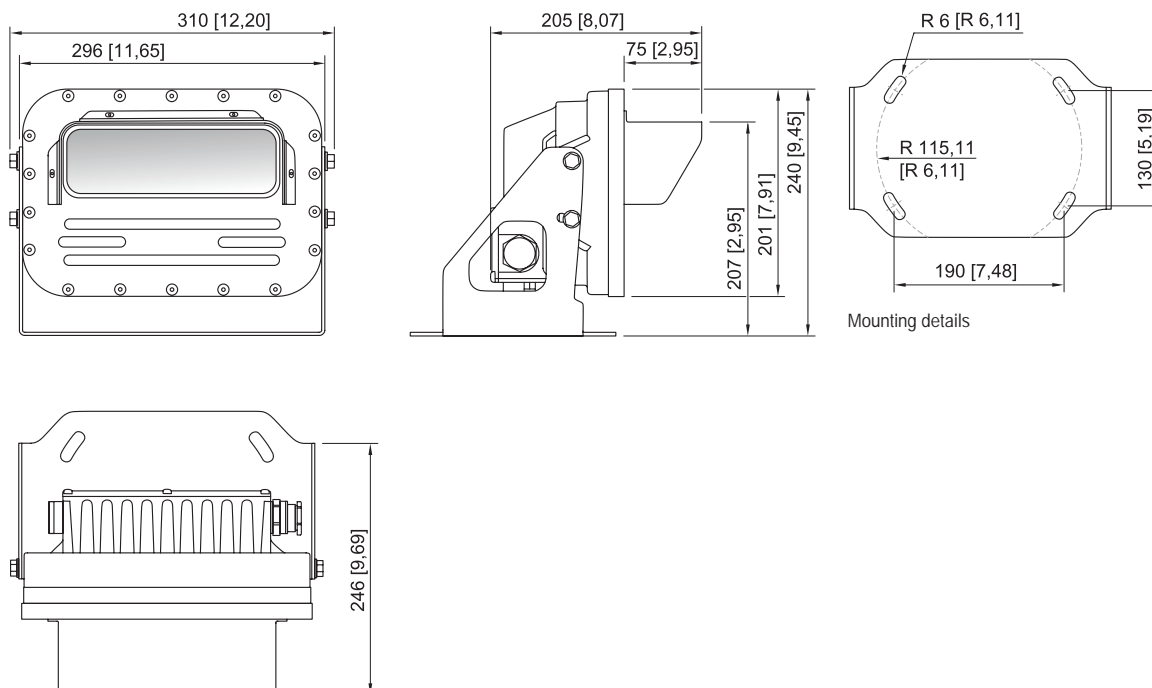
Mounting / Installation

Mounting type	1.4404 stainless steel holder
---------------	-------------------------------

Components

Drilled holes	2 x M25
Screw connections	2 x M25 Ø 11 – 21.1 mm
Material of screw connections	Stainless steel
Stopping plug	Can be ordered as accessories

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



E6



- All control gear in one cabinet, simplifying connections, control and monitoring
- Smaller footprint than individual control cabinets for each type of light
- With an absolute minimum of required inspections and low maintenance
- Connection with a supervisory control system through Ethernet, Profibus or similar standards
- Optional touchscreen, allowing local control (Zone 1 panel or Non-Ex)
- Optional remote button and lamp control panel, allowing additional control of lights

WebCode **T4600A**



The TEF 4600 integrated Helideck Lights Control is a first integrated control system for an easy and safe control and monitoring of all lights installed in a helideck. The control system can be delivered for use in both safe areas and Zone 1 areas.

All types of Tranberg lights can be connected (perimeter lights, floodlights, obstruction lights, illuminated windsocks, Circle & H lights, status lights, etc.).

Central to the system is a touch panel. Using an intuitive user-friendly menu, the user can simply set the lights on or off or dim respective lights when needed. The touch panel can be mounted either in the door of the main panel (safe areas only), in the adjacent room or elsewhere.

R. STAHL's Exicom MT-498 operator panel can be used for Zones 1 and 2. All touch panels come fully loaded with software and configuration options. Regardless of the control panel type, additional remote control panels may be connected. These are push-button panels with integrated illumination, allowing local control of lights, and in full synchronization with the computer screens.

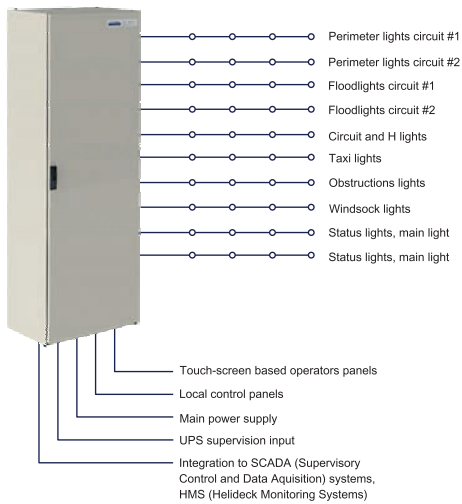
Applications:

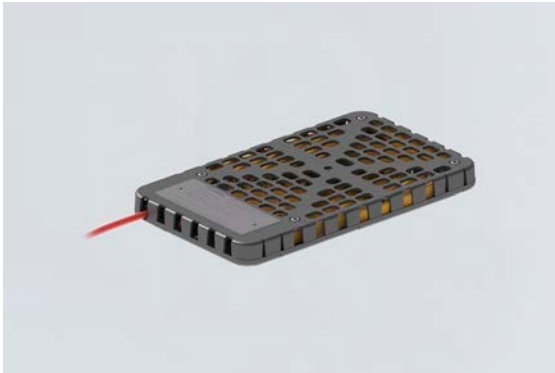
Deck light control panel; floodlight control panel; helideck control panel; heating system control panel; pump control panel; status panel; general control panel

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•				

E6

Technical Data	
Explosion Protection	
Application range (zones)	1
Application range (Zone) note	Non-Ex versions available
Notes	Control system and all operator panels are available in both Zone 1 and Non-Ex versions. According to CAA CAP437
Electrical Data	
Power supply	Single 230 V AC power supply, UPS supply and monitoring available
Connections	Ethernet connection to operator panels. Optional hardwired connection to local control panels.
Mechanical Data	
Degree of protection (IP)	IP66 / IP67
Dimensions (WxHxD)	Non-Ex control cabinet: 600 mm x 1800 mm x 300 mm Zone 1 cabinet: Flexible size and shape
Notes	Weight: 1.3 to 2.0 kg (depending on model and configuration)





- Light weight composite structure
- Compact
- Easy to install
- Can be supplied with DIN rail module
- Self regulating heating element. Prevents overheating.
- Low maintenance
- Corrosion proof
- Fire resistant, flame retardant UL94, Classification V-0
- Low inrush current

WebCode **T9202A**



Globally approved Ex e, self regulating enclosure heater.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

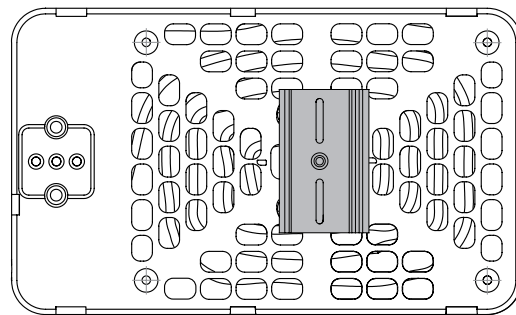
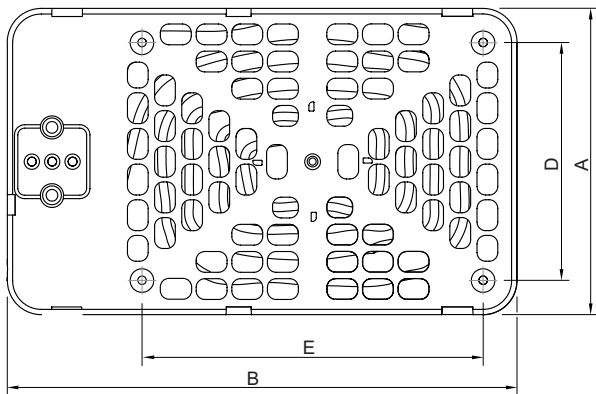
Selection Table					
Product Description	Enclosure heater with connection line				
Rated operational voltage AC	Power	Product Type	Art. No.	PS	
120 – 120 V	50 – 50 W	TEF9202050	262778	70	
	100 – 100 W	TEF9202051	262779	70	
230 – 230 V	50 – 50 W	TEF9202010	262777	70	
	100 – 100 W	TEF9202011	259713	70	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC T4 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex e IIC T4 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C (Under voltage)
Storage temperature	-50 °C ... +80 °C
Mechanical Data	
Degree of protection (IP)	IP54
Degree of protection note	For use in enclosures
Enclosure material	Composite material

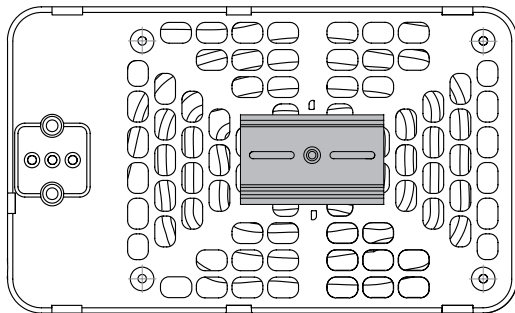
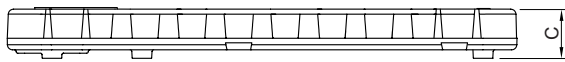
Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
	DIN rail module	263934	-

E6

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



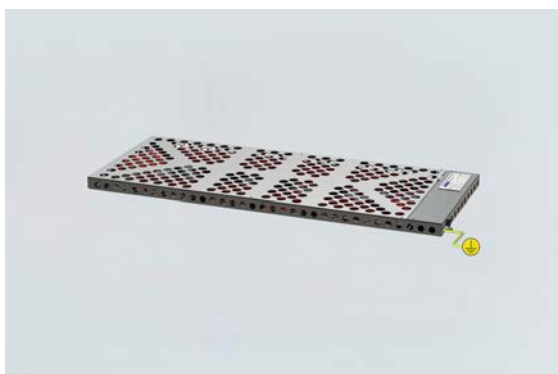
Optional DIN rail module, placed in vertical position



Optional DIN rail module, placed in horizontal position

Nominal output ¹⁾	Overall dimensions			Mounting dimensions		Weight
	A	B	C	D	E	
50 W	180	300	30	140	201	0,56 kg
100 W	180	300	30	140	201	0,76 kg

¹⁾ Note: Nominal output at still air at 0 °C



- Low profile, easy to fit inside cabinets
- Self-regulating heating element. Prevents overheating
- Rugged AISI 316L, acid steel construction
- Low maintenance
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control
- Frost protection

WebCode **T9207A**



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure. With connection line for electrical connection. Delivered with power output from 100 W up to 500 W at 0 °C.

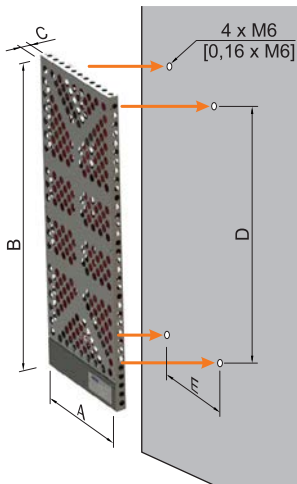
	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table						
Product Description		Enclosure heater with connection line				
Power	Type of connection cable	Cable length	Product Type	Art. No.	PS	
100 – 100 W	2 x 2.5 + PE	1 m	TEF92070001	242179	70	
200 – 200 W	2 x 2.5 + PE	1.5 m	TEF92070002	242180	70	
300 – 300 W	2 x 2.5 + PE	1.5 m	TEF92070003	242181	70	
500 – 500 W	2 x 2.5 + PE	1.5 m	TEF92070005	242182	70	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC T3 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex e IIC T3 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C (Under voltage)
Storage temperature	-50 °C ... +80 °C
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	1.4404 stainless steel

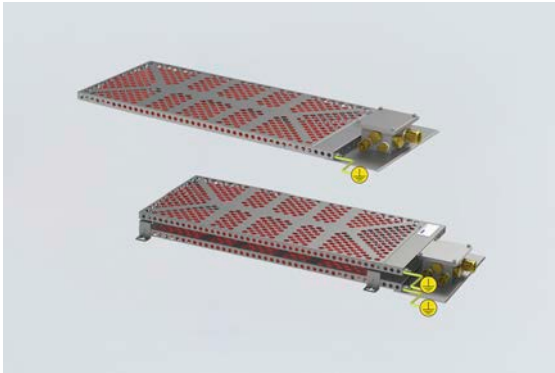
E6

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Nominal output ¹⁾	Overall dimensions			Mounting dimensions		Weight	Length connection line
	A	B	C	D	E		
100 W	200	300	30	190	160	1.62 kg	1 m
200 W	240	550	30	440	200	3.44 kg	1.5 m
300 W	280	700	30	590	240	5.42 kg	1.5 m
500 W	360	870	30	760	320	8.02 kg	1.5 m

¹⁾ Note: Nominal output at still air at 0 °C



- Low profile, easy to fit inside cabinets
- Self-regulating heating element. Prevents overheating
- Rugged AISI 316L, acid steel construction
- Low maintenance
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control
- Frost protection

WebCode **T9207B**



Globally approved Ex e, self-regulating enclosure heater. AISI 316L acid resistant steel enclosure and junction box. Junction box for electrical connections. Delivered with power output from 100 W up to 600 W at 0 °C.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table				
Product Description	Enclosure heater with junction box			
Power		Product Type	Art. No.	PS
100 – 100 W		TEF92071001	220182	70
200 – 200 W		TEF92071002	220183	70
300 – 300 W		TEF92071003	220184	70
500 – 500 W		TEF92071005	220186	70
Product Description Version	Enclosure heater with junction box Sandwich design			
Power		Product Type	Art. No.	PS
400 – 400 W		TEF92073004	220185	70
600 – 600 W		TEF92073006	220187	70
1000 – 1000 W		TEF92073010	220188	70

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Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC T3 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex e IIC T3 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C (Under voltage)
Storage temperature	-50 °C ... +80 °C
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	1.4404 stainless steel

Technical Data

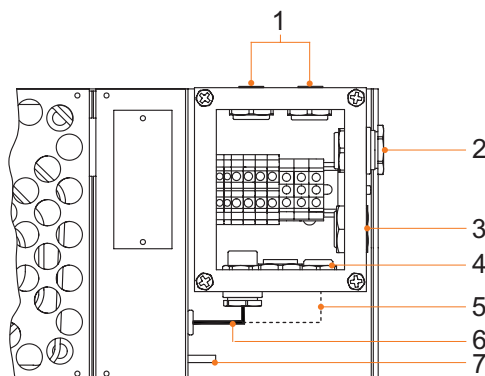
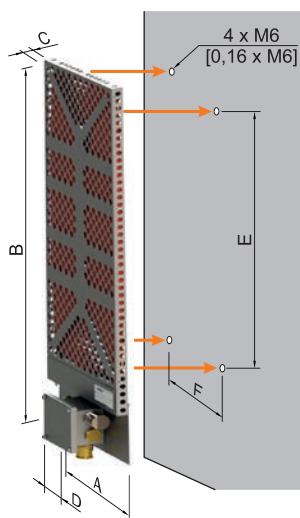
Mechanical Data

Connection cross-section solid max.	4 mm ²
Connection cross-section finely stranded max.	2.5 mm ²

Components

Screw connections	1 x M25 x 1.5
Stopping plug	3 x M25 x 1.5

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

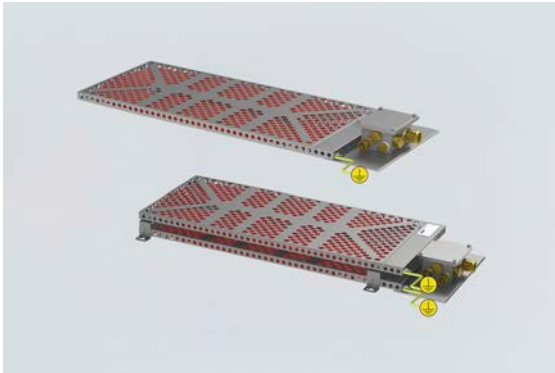


- 1 Stopping plug M25
 - 2 Power in M25
 - 3 Breather M25
 - 4 Stopping plug M25
 - 5 ^{*)} 2x cold lead only (for sandwich design)
 - 6 ^{*)} Cold lead
 - 7 Earth bolt M6 x 10
- ^{*)} internal cables from heater plate (installed at TRANBERG Factory)

Note! Never install the heater with junction box facing upwards.

Nominal output ^{*)}	Overall dimensions				Mounting dimensions		Weight
	A	B	C	D	E	F	
100 W	200	430	30	80	190	160	2.92 kg
200 W	240	684	30	80	440	200	4.74 kg
300 W	280	834	30	80	590	240	6.72 kg
400 W	303	684	80	80	440	276	6.44 kg
500 W	360	1004	30	80	760	320	9.32 kg
600 W	343	834	80	80	590	316	11.76 kg
1000 W	424	1004	80	80	760	397	18.50 kg

^{*)} Note: Nominal output at still air at 0 °C



- Low profile, easy to fit inside cabinets
- Self-regulating heating element. Prevents overheating
- Rugged AISI 316L, acid steel construction
- Ambient air thermostat, integrated in heater junction box
- Low maintenance
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control
- Frost protection

WebCode **T9207C**



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure and junction box. Junction box for electrical connections. Delivered with ambient air thermostat, +5 °C or +15 °C and power output from 100 W up to 600 W at 0 °C ambient, still air.

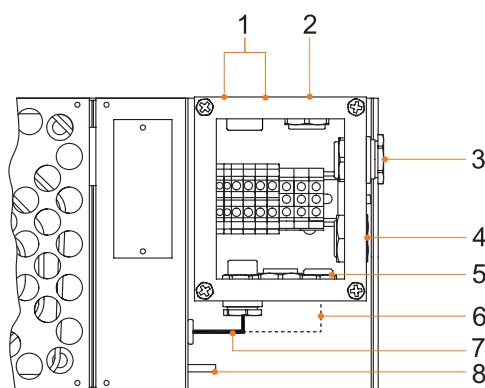
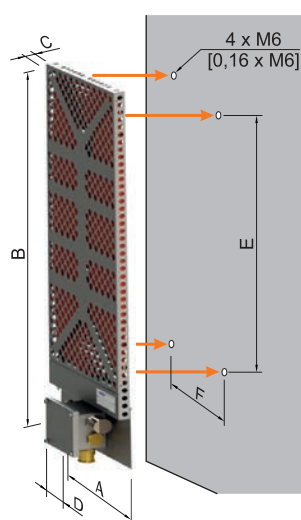
	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table					
Enclosure heater with junction box and temperature control device					
Product Description	Opening temperature OFF	Opening temperature tolerance	Product Type	Art. No.	PS
100 – 100 W	+5 °C	+/- 5°C	TEF92072401	220175	70
	+15 °C	+/- 5°C	TEF92072601	242183	70
200 – 200 W	+5 °C	+/- 5°C	TEF92072402	220176 ▲	70
	+15 °C	+/- 5°C	TEF92072602	242184	70
300 – 300 W	+5 °C	+/- 5°C	TEF92072403	220177	70
	+15 °C	+/- 5°C	TEF92072603	242185	70
500 – 500 W	+5 °C	+/- 5°C	TEF92072405	220179	70
	+15 °C	+/- 5°C	TEF92072605	242186	70
Enclosure heater with junction box and temperature control device Sandwich design					
Product Description Version	Opening temperature OFF	Opening temperature tolerance	Product Type	Art. No.	PS
400 – 400 W	+5 °C	+/- 5°C	TEF92074404	220178	70
	+15 °C	+/- 5°C	TEF92074604	242187	70
600 – 600 W	+5 °C	+/- 5°C	TEF92074406	220180	70
	+15 °C	+/- 5°C	TEF92074606	242188	70
1000 – 1000 W	+5 °C	+/- 5°C	TEF92074410	220181	70
	+15 °C	+/- 5°C	TEF92074610	242189	70

E6

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC T3 Gb
Gas explosion protection ATEX	II 2 G Ex e IIC T3 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C (Under voltage)
Storage temperature	-50 °C ... +80 °C
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	1.4404 stainless steel
Connection cross-section solid max.	4 mm ²
Connection cross-section finely stranded max.	2.5 mm ²
Components	
Screw connections	1 x M25 x 1.5
Stopping plug	3 x M25 x 1.5

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



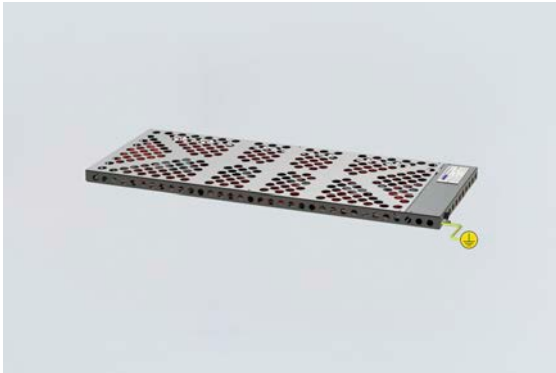
- 1 Ambient air thermostat
 - 2 Stopping plug M25
 - 3 Power in M25
 - 4 Breather M25
 - 5 Stopping plug M25
 - 6 ¹ 2x cold lead only (for sandwich design)
 - 7 ¹ Cold lead
 - 8 Earth bolt
- ¹ internal cables from heater plate (installed at TRANBERG Factory)

E6

Note! Never install the heater with junction box facing upwards.

Nominal output ¹	Overall dimensions				Mounting dimensions		Weight
	A	B	C	D	E	F	
100 W	233	430	30	80	190	160	2.92 kg
200 W	245	684	30	80	440	200	4.74 kg
300 W	280	834	30	80	590	240	6.72 kg
400 W	303	684	80	80	440	276	6.44 kg
500 W	360	1004	30	80	760	320	9.32 kg
600 W	343	834	80	80	590	316	11.76 kg
1000 W	424	1004	80	80	760	397	18.50 kg

¹ Note: Nominal output at still air at 0 °C



- Low profile, easy to fit inside cabinets
- Self-regulating heating element. Prevents overheating
- Rugged AISI 316L, acid steel construction
- Low maintenance
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control
- Frost protection

WebCode **T9208A**



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure. With connection line for electrical connection. Delivered with power output from 50 W up to 300 W at 0 °C.

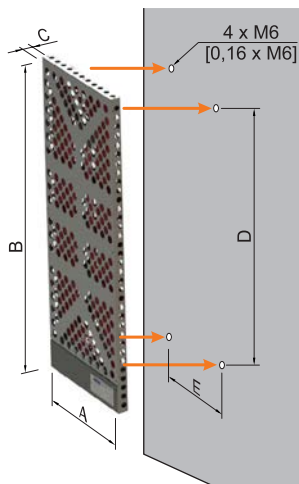
	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table						
Product Description		Enclosure heater with connection line				
Power	Type of connection cable	Cable length	Product Type	Art. No.	PS	
50 – 50 W	2 x 2.5 + PE	1 m	TEF92080000	259557	70	
100 – 100 W	2 x 2.5 + PE	1.5 m	TEF92080001	246710	70	
175 – 175 W	2 x 2.5 + PE	1.5 m	TEF92080002	246851	70	
300 – 300 W	2 x 2.5 + PE	1.5 m	TEF92080003	246852	70	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC T4 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex e IIC T4 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C (Under voltage)
Storage temperature	-50 °C ... +80 °C

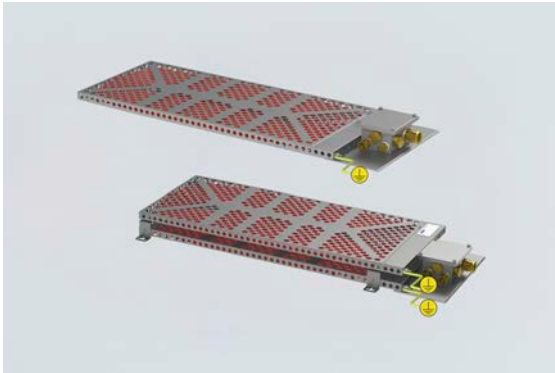
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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Nominal output ¹⁾	Overall dimensions			Mounting dimensions		Weight	Length connection line
	A	B	C	D	E		
50 W	200	300	30	190	160	2 kg	1 m
100 W	240	550	30	440	200	3 kg	1 m
175 W	280	700	30	590	240	5 kg	1.5 m
300 W	360	870	30	760	320	8 kg	1.5 m

¹⁾ Note: Nominal output at still air at 0 °C



- Low profile, easy to fit inside cabinets
- Self-regulating heating element. Prevents overheating
- Rugged AISI 316L, acid steel construction
- Low maintenance
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control
- Frost protection

WebCode **T9208B**



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure and junction box. Junction box for electrical connections. Delivered with power output from 100 W up to 600 W at 0 °C.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table				
Product Description	Enclosure heater with junction box			
Power		Product Type	Art. No.	PS
100 – 100 W		TEF92081001	259561	70
175 – 175 W		TEF92081002	259562	70
300 – 300 W		TEF92081003	259563	70
Product Description	Enclosure heater with junction box			
Version	Sandwich design			
Power		Product Type	Art. No.	PS
600 – 600 W		TEF92083006	259570	70

E6

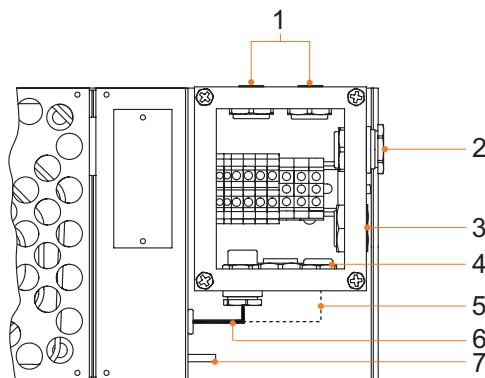
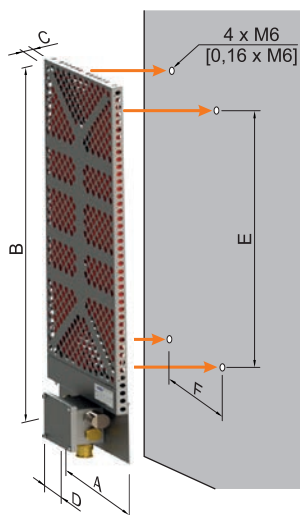
Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC T4 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex e IIC T4 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C (Under voltage)
Storage temperature	-50 °C ... +80 °C
Mechanical Data	
Degree of protection (IP)	IP54
Degree of protection note	For use in enclosures
Enclosure material	1.4404 stainless steel
Connection cross-section solid max.	4 mm ²
Connection cross-section finely stranded max.	2.5 mm ²

Technical Data

Components

Screw connections	1 x M25 x 1.5
Stopping plug	3 x M25 x 1.5

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

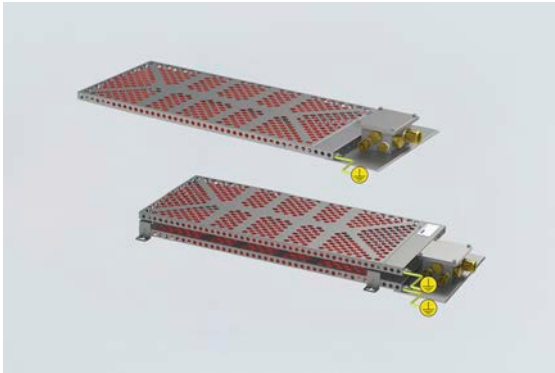


- 1 Stopping plug M25
 - 2 Power in M25
 - 3 Breather M25
 - 4 Stopping plug M25
 - 5 ^{*)} 2x cold lead only (for sandwich design)
 - 6 ^{*)} Cold lead
 - 7 Earth bolt M6 x 10
- ^{*)} internal cables from heater plate (installed at TRANBERG Factory)

Note! Never install the heater with junction box facing upwards.

Nominal output ^{*)}	Overall dimensions				Mounting dimensions		Weight
	A	B	C	D	E	F	
100 W	240	684	30	80	440	200	4.92 kg
175 W	280	834	30	80	590	240	6.74 kg
300 W	360	1004	30	80	760	320	9.72 kg
600 W	424	1004	80	80	760	397	18.76 kg

^{*)} Note: Nominal output at still air at 0 °C



- Low profile, easy to fit inside cabinets
- Self-regulating heating element. Prevents overheating
- Rugged AISI 316L, acid steel construction
- Ambient air thermostat, integrated in heater junction box
- Low maintenance
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control
- Frost protection

WebCode **T9208C**



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure and junction box. Junction box for electrical connections. Delivered with ambient air thermostat, +5 °C or +15 °C and power output from 100 W up to 600 W at 0 °C ambient, still air.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table						
Enclosure heater with junction box and temperature control device						
Product Description	Opening temperature OFF	Opening temperature tolerance	Product Type	Art. No.	PS	
100 – 100 W	+5 °C	+/- 5°C	TEF92082401	259564	70	
100 – 100 W	+15 °C	+/- 5°C	TEF92082601	259567	70	
175 – 175 W	+5 °C	+/- 5°C	TEF92082402	259565	70	
175 – 175 W	+15 °C	+/- 5°C	TEF92082602	259568	70	
300 – 300 W	+5 °C	+/- 5°C	TEF92082403	259566	70	
300 – 300 W	+15 °C	+/- 5°C	TEF92082603	259569	70	
Enclosure heater with junction box and temperature control device Sandwich design						
Product Description Version	Opening temperature OFF	Opening temperature tolerance	Product Type	Art. No.	PS	
600 – 600 W	+5 °C	+/- 5°C	TEF92084406	259571	70	
600 – 600 W	+15 °C	+/- 5°C	TEF92084606	259572	70	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC T4 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex e IIC T4 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C (Under voltage)
Storage temperature	-50 °C ... +80 °C

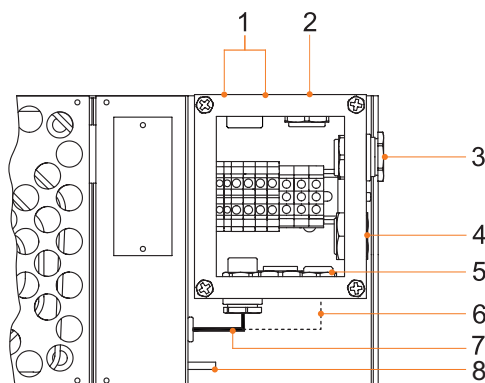
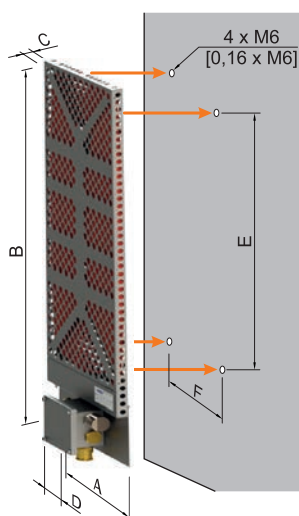
E6

Technical Data

Mechanical Data

Degree of protection (IP)	IP54
Degree of protection note	For use in enclosures
Enclosure material	1.4404 stainless steel
Connection cross-section solid max.	4 mm ²
Connection cross-section finely stranded max.	2.5 mm ²

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

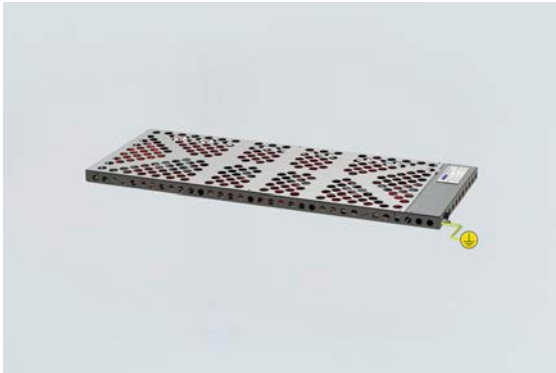


- 1 Ambient air thermostat
 - 2 Stopping plug M25
 - 3 Power in M25
 - 4 Breather M25
 - 5 Stopping plug M25
 - 6 ¹ 2x cold lead only (for sandwich design)
 - 7 ¹ Cold lead
 - 8 Earth bolt
- ¹ internal cables from heater plate (installed at TRANBERG Factory)

Note! Never install the heater with junction box facing upwards.

Nominal output ¹	Overall dimensions				Mounting dimensions		Weight
	A	B	C	D	E	F	
100 W	245	684	30	80	440	200	4.92 kg
175 W	280	834	30	80	590	240	6.74 kg
300 W	360	1004	30	80	760	320	9.72 kg
600 W	424	1004	80	80	760	397	18.76 kg

¹ Note: Nominal output at still air at 0 °C



- Low profile, easy to fit inside cabinets
- Self-regulating heating element. Prevents overheating
- Rugged AISI 316L, acid steel construction
- Low maintenance
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control
- Frost protection

WebCode **T9209A**



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure. With connection line for electrical connection. Delivered with power output from 50 W up to 300 W at 0 °C.

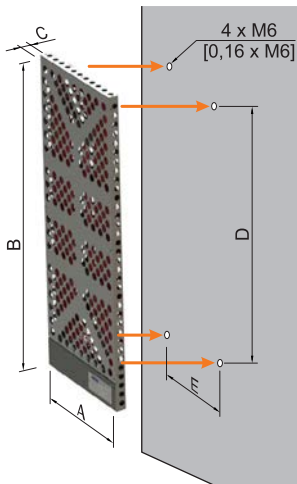
	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table						
Enclosure heater with connection line						
Product Description	Type of connection cable	Cable length	Product Type	Art. No.	PS	
50 – 50 W	2 x 2.5 + PE	1 m	TEF92095000	262980	70	
100 – 100 W	2 x 2.5 + PE	1.5 m	TEF92095001	262981	70	
175 – 175 W	2 x 2.5 + PE	1.5 m	TEF92095002	262982	70	
300 – 300 W	2 x 2.5 + PE	1.5 m	TEF92095003	262983	70	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC T4 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex e IIC T4 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C (Under voltage)
Storage temperature	-50 °C ... +80 °C

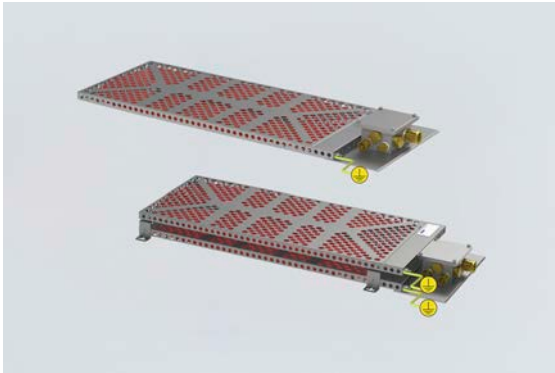
E6

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Nominal output ¹⁾	Overall dimensions			Mounting dimensions		Weight	Length connection line
	A	B	C	D	E		
50 W	200	300	30	190	160	2 kg	1 m
100 W	240	550	30	440	200	3 kg	1 m
175 W	280	700	30	590	240	5 kg	1.5 m
300 W	360	870	30	760	320	8 kg	1.5 m

¹⁾ Note: Nominal output at still air at 0 °C



- Low profile, easy to fit inside cabinets
- Self-regulating heating element. Prevents overheating
- Rugged AISI 316L, acid steel construction
- Low maintenance
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control
- Frost protection

WebCode **T9209B**



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure and junction box. Junction box for electrical connections. Delivered with power output from 100 W up to 600 W at 0 °C.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table					
Product Description	Enclosure heater with junction box				
Power		Product Type	Art. No.	PS	
100 – 100 W		TEF92096001	262984	70	
175 – 175 W		TEF92096002	262985	70	
300 – 300 W		TEF92096003	262986	70	
Product Description	Enclosure heater with junction box				
Version	Sandwich design				
Power		Product Type	Art. No.	PS	
600 – 600 W		TEF92098006	262987	70	

E6

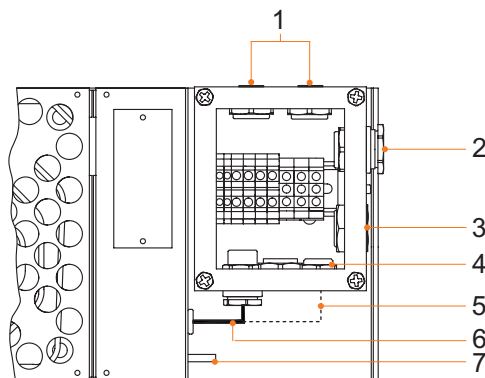
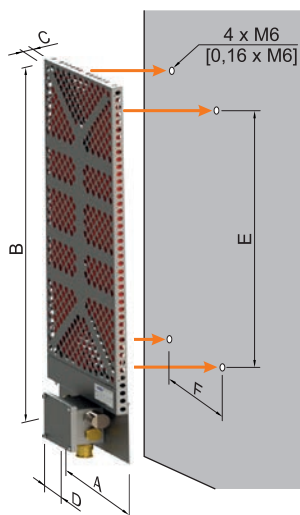
Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC T4 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex e IIC T4 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C (Under voltage)
Storage temperature	-50 °C ... +80 °C
Mechanical Data	
Degree of protection (IP)	IP54
Degree of protection note	For use in enclosures
Enclosure material	1.4404 stainless steel
Connection cross-section solid max.	4 mm ²
Connection cross-section finely stranded max.	2.5 mm ²

Technical Data

Components

Screw connections	1 x M25 x 1.5
Stopping plug	3 x M25 x 1.5

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

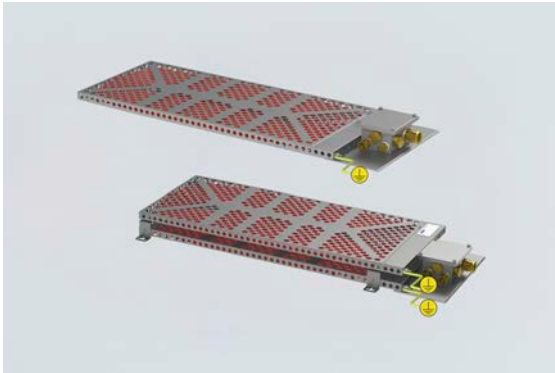


- 1 Stopping plug M25
 - 2 Power in M25
 - 3 Breather M25
 - 4 Stopping plug M25
 - 5 ^{*)} 2x cold lead only (for sandwich design)
 - 6 ^{*)} Cold lead
 - 7 Earth bolt M6 x 10
- ^{*)} internal cables from heater plate (installed at TRANBERG Factory)

Note! Never install the heater with junction box facing upwards.

Nominal output ^{*)}	Overall dimensions				Mounting dimensions		Weight
	A	B	C	D	E	F	
100 W	240	684	30	80	440	200	4.92 kg
175 W	280	834	30	80	590	240	6.74 kg
300 W	360	1004	30	80	760	320	9.72 kg
600 W	424	1004	80	80	760	397	18.76 kg

^{*)} Note: Nominal output at still air at 0 °C



- Low profile, easy to fit inside cabinets
- Self-regulating heating element. Prevents overheating
- Rugged AISI 316L, acid steel construction
- Ambient air thermostat, integrated in heater junction box
- Low maintenance
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control
- Frost protection

WebCode **T9209C**



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure and junction box. Junction box for electrical connections. Delivered with ambient air thermostat, +5 °C or +15 °C and power output from 100 W up to 600 W at 0 °C ambient, still air.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table					
Product Description		Enclosure heater with junction box and temperature control device			
Power	Opening temperature OFF	Opening temperature tolerance	Product Type	Art. No.	PS
100 – 100 W	+5 °C	+/- 5°C	TEF92097401	262988	70
	+15 °C	+/- 5°C	TEF92097601	262992	70
175 – 175 W	+5 °C	+/- 5°C	TEF92097402	262989	70
	+15 °C	+/- 5°C	TEF92097602	262993	70
300 – 300 W	+5 °C	+/- 5°C	TEF92097403	262990	70
	+15 °C	+/- 5°C	TEF92097603	262994	70
Product Description Version		Enclosure heater with junction box and temperature control device Sandwich design			
Power	Opening temperature OFF	Opening temperature tolerance	Product Type	Art. No.	PS
600 – 600 W	+5 °C	+/- 5°C	TEF92099406	262991	70
	+15 °C	+/- 5°C	TEF92099606	262995	70

E6

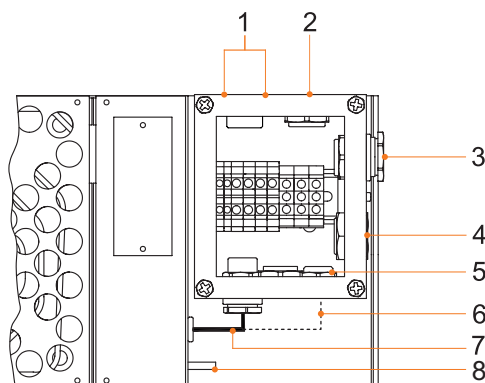
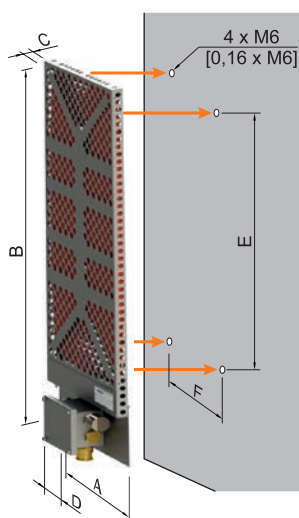
Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC T4 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex e IIC T4 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C (Under voltage)
Storage temperature	-50 °C ... +80 °C

Technical Data

Mechanical Data

Degree of protection (IP)	IP54
Degree of protection note	For use in enclosures
Enclosure material	1.4404 stainless steel
Connection cross-section solid max.	4 mm ²
Connection cross-section finely stranded max.	2.5 mm ²

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



- 1 Ambient air thermostat
 - 2 Stopping plug M25
 - 3 Power in M25
 - 4 Breather M25
 - 5 Stopping plug M25
 - 6 ¹ 2x cold lead only (for sandwich design)
 - 7 ¹ Cold lead
 - 8 Earth bolt
- ¹ internal cables from heater plate (installed at TRANBERG Factory)

Note! Never install the heater with junction box facing upwards.

Nominal output ¹	Overall dimensions				Mounting dimensions		Weight
	A	B	C	D	E	F	
100 W	245	684	80	80	440	200	4.92 kg
175 W	280	834	80	80	590	240	6.74 kg
300 W	360	1004	80	80	760	320	9.72 kg
600 W	424	1004	80	80	760	397	18.76 kg

¹ Note: Nominal output at still air at 0 °C



E6



LOAD DISCONNECTED SWITCHES AND MOTOR STARTERS

Product	Installation in Zone						Series	Page	WebCode
	0	1	2	20	21	22			
Motor Protection Circuit Breakers									
Motor Protection Circuit Breaker		•	•		•	•	8146/5-V27	775	8146N
Safety Switches									
Safety Switches		•	•		•	•	8537	773	8537A
Safety Switches Made of Polyester Resin		•	•		•	•	8146/5-V37	763	8146L
Safety Switches Made of Stainless Steel		•	•		•	•	8150/5-V37	770	8150F
Standard Motor Starters									
Standard Motor Starters		•	•		•	•	8220	785	8220A
Standard Motor Starters CUBEx		•	•		•	•	8264/5	781	8264D
Dimensional Drawings									
Safety Switches Series 8146/5-V37, 8150/5-V37 Dimensional Drawings								772	

For additional products and information please refer to r-stahl.com



- Can be used with conventional drives and drives controlled by frequency converters
- Intelligent design: A single rotary actuator for actuating both main and auxiliary contacts, ≥ 20 ms leading auxiliary contact for safely disconnecting the frequency converter
- Version complies with IEC/EN 62626-1, Class 1
- The rotary actuator can be locked with 3 padlocks in the 0-position

WebCode **8146L**



R. STAHL's 8146/5-V37 series safety switches safely disconnect the power supply to machinery and system components for cleaning and repair as prescribed. They can be used at frequencies from 5 to 400 Hz. All of the installed load disconnect switches have an AC-3 switching capacity. The switches can be locked in the 0-position using padlocks.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table										
Rated operational current			10 A							
Gas temperature class			T6							
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	Standard (without)	Brass plate with 8161	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-300-50-0050	220275 ▲	12	1.700
Yellow collar, red handle	Standard (without)	Brass plate with 8161	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-300-50-1050	220277 ▲	12	1.700
Rated operational current			12 A / 16 A							
Gas temperature class			T6							
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	Standard (without)	Brass plate with 8161	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-301-50-0050	147855 ▲	12	0.962
	With N-terminal	Brass plate with 8161	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-301-50-0150	147857 ▲	12	0.982
Yellow collar, red handle	Standard (without)	Brass plate with 8161	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-301-50-1050	147856 ▲	12	0.958
	With N-terminal	Brass plate with 8161	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-301-50-1150	147858 ▲	12	0.978

E7

Selection Table

Rated operational current Gas temperature class			16 A T4							
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Yellow collar, red handle	Main contact on terminals	Standard 8161, moulded material	2 x M32 Ø 9 ... 21 mm 1 x M20 Ø 4 ... 13 mm	Without	Without	690 V	8146/5-V37-302-00-1510	226354	12	2.500
Rated operational current Gas temperature class			16 A T6							
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	Standard (without)	Brass plate with 8161	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-302-50-0050	201404 ▲	12	1.590
	With PTC resistor terminal	Brass plate with 8161	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-302-50-0250	222088	12	1.590
	Standard (without)	Standard 8161, moulded material	4 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	2 NO / 1x delayed	690 V	8146/5-V37-602-60-0010	201420 ▲	12	2.640
Yellow collar, red handle	Standard (without)	Brass plate with 8161	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-302-50-1050	201405 ▲	12	1.590
	With N-terminal	Brass plate with 8161	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-302-50-1150	201406 ▲	12	1.590
	Standard (without)	Standard 8161, moulded material	4 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	2 NO / 1x delayed	690 V	8146/5-V37-602-60-1010	201421 ▲	12	2.640
Rated operational current Gas temperature class			20 A T6							
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	Standard (without)	Standard 8161, moulded material	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-303-50-0010	220278 ▲	12	2.020
Yellow collar, red handle	Standard (without)	Standard 8161, moulded material	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-303-50-1010	220279 ▲	12	2.020
Rated operational current Gas temperature class			25 A T6							
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	Standard (without)	Standard 8161, moulded material	2 x M32 Ø 9 ... 21 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-304-50-0010	201422 ▲	12	1.960
		Standard 8161, moulded material	4 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	2 NO / 1x delayed	690 V	8146/5-V37-604-60-0010	201464 ▲	12	2.790

E7

Selection Table										
Rated operational current			25 A							
Gas temperature class			T6							
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Yellow collar, red handle	Standard (without)	Standard 8161, moulded material	2 x M32 Ø 9 ... 21 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-304-50-1010	201423 ▲	12	2.020
	With N-terminal	Standard 8161, moulded material	2 x M32 Ø 9 ... 21 mm 1 x M20 Ø 4 ... 13 mm	Without	1 NO / delayed	690 V	8146/5-V37-304-50-1110	201462 ▲	12	2.020
	Standard (without)	Standard 8161, moulded material	4 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	Without	2 NO / 1x delayed	690 V	8146/5-V37-604-60-1010	201447 ▲	12	2.790
Rated operational current			40 A							
Gas temperature class			T4							
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Yellow collar, red handle	Main contact on terminals	Standard 8161, moulded material	2 x M40 Ø 12 ... 28 mm 1 x M20 Ø 4 ... 13 mm	Without	Without	690 V	8146/5-V37-305-00-1510	226355	12	7.500
Rated operational current			40 A							
Gas temperature class			T6							
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	Standard (without)	Standard 8161, moulded material	2 x M40 Ø 12 ... 28 mm	Without	Without	690 V	8146/5-V37-305-00-0010-K	242415	12	5.520
		Standard 8161, moulded material	2 x M40 Ø 12 ... 28 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-305-51-0010-K	200206 ▲	12	5.560
		Standard 8161, moulded material	2 x M40 Ø 12 ... 28 mm 1 x M20 Ø 4 ... 13 mm	Without	Without	690 V	8146/5-V37-605-00-0010-K	200311	12	10.960
		Standard 8161, moulded material	2 x M40 Ø 12 ... 28 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-605-51-0010-K	200290 ▲	12	10.960
Yellow collar, red handle	Standard (without)	Standard 8161, moulded material	2 x M40 Ø 12 ... 28 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-305-51-1010-K	200207 ▲	12	5.520
	With N-terminal	Standard 8161, moulded material	2 x M40 Ø 12 ... 28 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-305-51-1110-K	200208 ▲	12	5.900
	Standard (without)	Standard 8161, moulded material	2 x M40 Ø 12 ... 28 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-605-51-1010-K	200321	12	10.960
Rated operational current			63 A							
Gas temperature class			T4							
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Yellow collar, red handle	Main contact on terminals	Standard 8161, moulded material	2 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm	Without	Without	690 V	8146/5-V37-306-00-1510	226356	12	10.700

E7

Selection Table

Rated operational current Gas temperature class		63 A / 80 A T6								
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	Standard (without)	Standard 8161, moulded material	2 x M50 Ø 16 ... 35 mm	Without	Without	690 V	8146/5-V37-306-00-0010-K	242416	12	5.680
		Standard 8161, moulded material	2 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm	Without	Without	690 V	8146/5-V37-306-00-0010	213115 ▲	12	7.550
		Standard 8161, moulded material	2 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-306-51-0010-K	200558 ▲	12	5.680
		Standard 8161, moulded material	2 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-306-51-0010	213395 ▲	12	7.550
		Brass plate with drilled holes	2 x M50 1 x M20	1 NC	1 NO / delayed	690 V	8146/5-V37-306-51-0040	213398 ▲	12	11.800
		Standard 8161, moulded material	4 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm	Without	Without	690 V	8146/5-V37-606-00-0010	200573 ▲	12	10.100
		Standard 8161, moulded material	4 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-606-51-0010	200574 ▲	12	10.100
Yellow collar, red handle	Standard (without)	Standard 8161, moulded material	2 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-306-51-1010-K	200559 ▲	12	5.680
		Standard 8161, moulded material	2 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-306-51-1010	213396 ▲	12	7.550
	With N-terminal	Standard 8161, moulded material	2 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-306-51-1110-K	200560 ▲	12	5.680
		Standard 8161, moulded material	2 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-306-51-1110	213397	12	7.550
	Standard (without)	Standard 8161, moulded material	4 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-606-51-1010	200575	12	10.100
	Rated operational current Gas temperature class		80 A T4							
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Yellow collar, red handle	Main contact on terminals	Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	Without	Without	500 V	8146/5-V37-307-00-1510	226357	12	14.400

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Selection Table										
Rated operational current		125 A / 160 A								
Gas temperature class		T6								
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	Standard (without)	Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	Without	Without	690 V	8146/5-V37-308-00-0010-K	201396 ▲	12	14.350
		Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	Without	Without	690 V	8146/5-V37-308-00-0010	212478	12	18.500
		Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-308-51-0010-K	201397 ▲	12	14.350
		Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-308-51-0010	212209 ▲	12	18.500
		Brass plate with drilled holes	2 x M63 1 x M20	1 NC	1 NO / delayed	690 V	8146/5-V37-308-51-0040-K	201400	12	21.260
		Brass plate with drilled holes	2 x M63 1 x M20	1 NC	1 NO / delayed	690 V	8146/5-V37-308-51-0040	212212	12	22.770
		Standard 8161, moulded material	4 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	Without	Without	690 V	8146/5-V37-608-00-0010	201401 ▲	12	22.760
		Standard 8161, moulded material	4 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-608-51-0010	201402	12	22.760
Yellow collar, red handle	Standard (without)	Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-308-51-1010-K	201398 ▲	12	14.350
		Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-308-51-1010	212210	12	18.500
	With N-terminal	Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-308-51-1110-K	201399 ▲	12	14.350
		Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-308-51-1110	212211 ▲	12	23.200
	Standard (without)	Standard 8161, moulded material	4 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-608-51-1010	201403	12	22.760
	With N-terminal	Standard 8161, moulded material	4 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	690 V	8146/5-V37-608-51-1110	212766	12	22.760

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Selection Table

Rated operational current Gas temperature class		180 A T4								
Colour of handle	Additional terminal	Entry type	Cable gland	Auxiliary contact NC	Auxiliary contact NO	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	Standard (without)	Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	Without	Without	400 V	8146/5-V37-310-00-0010-K	213475	12	14.360
		Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	Without	Without	400 V	8146/5-V37-310-00-0010	213482	12	19.560
		Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	400 V	8146/5-V37-310-51-0010-K	213476 ▲	12	14.360
		Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	400 V	8146/5-V37-310-51-0010	213483	12	19.560
		Brass plate with drilled holes	2 x M63 1 x M20	1 NC	1 NO / delayed	400 V	8146/5-V37-310-51-0040-K	213479 ▲	12	15.140
		Brass plate with drilled holes	2 x M63 1 x M20	1 NC	1 NO / delayed	400 V	8146/5-V37-310-51-0040	213486	12	22.770
		Standard 8161, moulded material	4 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	Without	Without	400 V	8146/5-V37-610-00-0010	213489	12	37.360
		Standard 8161, moulded material	4 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	400 V	8146/5-V37-610-51-0010	213490	12	37.360
Yellow collar, red handle	Standard (without)	Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	400 V	8146/5-V37-310-51-1010-K	213477 ▲	12	14.360
		Standard 8161, moulded material	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	1 NC	1 NO / delayed	400 V	8146/5-V37-310-51-1010	213484	12	19.560

Technical Data

Variant	Gas temperature class T6	Gas temperature class T4
Explosion Protection		
Gas explosion protection IECEx	Ex db eb IIC T6 Gb	Ex db eb IIC T4 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC T6 Gb	Ⓔ II 2 G Ex db eb IIC T4 Gb
Gas explosion protection EAC	1 Ex e * IIA ... IIC T6 ... T3 Gb X	1 Ex e * IIA ... IIC T6 ... T3 Gb X
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db	Ex tb IIIC T130 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T80 °C Db	Ⓔ II 2 D Ex tb IIIC T130 °C Db
Dust explosion protection EAC	Ex tb IIIC T80 °C ... T130 °C Db X	Ex tb IIIC T80 °C ... T130 °C Db X
Certificates	ATEX (PTB), China (NEPSI), EAC (LPE), IECEx (PTB), Korea (KGS)	ATEX (PTB), China (NEPSI), EAC (LPE), IECEx (PTB), Korea (KGS)
Electrical Data		
Notes	Auxiliary contact NO (1 x ON delayed - OFF leading)	
Ambient Conditions		
Notes	Information regarding ambient conditions can be found on the Internet at r-stahl.com. WebCode 8146L	
Mechanical Data		
Degree of protection (IP)	IP66	IP66
Enclosure material	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced
Type of connection cable	Solid Finely stranded	Finely stranded Solid
Seal	Silicone, foamed	Silicone, foamed

Technical Data		
Variant	Gas temperature class T6	Gas temperature class T4
Mechanical Data		
Seal Notes	Seal optional: EPDM	Seal optional: EPDM
Lockable in	3x in 0	3x in 0
Detailed number of poles	3-pole	3-pole
Accessories and spare parts on the Internet r-stahl.com		
Dimensional Drawings see page 772		



- Can be used with conventional drives and drives controlled by frequency converters
- Intelligent design: A single rotary actuator for actuating both main and auxiliary contacts, ≥ 20 ms leading auxiliary contact for safely disconnecting the frequency converter
- Version complies with IEC/EN 62626-1, Class 1
- The rotary actuator can be locked with 3 padlocks in the 0-position

WebCode **8150F**



R. STAHL's 8150/5-V37 series safety switches safely disconnect the power supply to machinery and system components for cleaning and repair as prescribed. They can be used at frequencies from 5 to 400 Hz. All of the installed load disconnect switches have an AC-3 switching capacity. The switches can be locked in the 0-position using padlocks.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Rated operational current 16.00 A							
Colour of handle	Auxiliary contact NC	Auxiliary contact NO	Cable gland	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	Without	1 NO / delayed	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	8150/5-V37-302-50-0010	214171 ▲	12	3.250
Yellow collar, red handle	Without	1 NO / delayed	2 x M25 Ø 7 ... 17 mm 1 x M20 Ø 4 ... 13 mm	8150/5-V37-302-50-1010	222688 ▲	12	3.250
Rated operational current 25.00 A							
Colour of handle	Auxiliary contact NC	Auxiliary contact NO	Cable gland	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	Without	1 NO / delayed	2 x M32 Ø 9 ... 21 mm 1 x M20 Ø 4 ... 13 mm	8150/5-V37-304-50-0010	214172 ▲	12	3.300
Yellow collar, red handle	Without	1 NO / delayed	2 x M32 Ø 9 ... 21 mm 1 x M20 Ø 4 ... 13 mm	8150/5-V37-304-50-1010	222691 ▲	12	3.300
Rated operational current 40.00 A							
Colour of handle	Auxiliary contact NC	Auxiliary contact NO	Cable gland	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	1 NC	1 NO / delayed	2 x M40 Ø 12 ... 28 mm 1 x M20 Ø 4 ... 13 mm	8150/5-V37-305-51-0010-K	214173 ▲	12	8.360
Yellow collar, red handle	1 NC	1 NO / delayed	2 x M40 Ø 12 ... 28 mm 1 x M20 Ø 4 ... 13 mm	8150/5-V37-305-51-1010-K	222692 ▲	12	8.360
Rated operational current 63.00 A / 80.00 A							
Colour of handle	Auxiliary contact NC	Auxiliary contact NO	Cable gland	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	1 NC	1 NO / delayed	2 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm	8150/5-V37-306-51-0010-K	214174 ▲	12	12.600
Yellow collar, red handle	1 NC	1 NO / delayed	2 x M50 Ø 16 ... 35 mm 1 x M20 Ø 4 ... 13 mm	8150/5-V37-306-51-1010-K	222693 ▲	12	12.600

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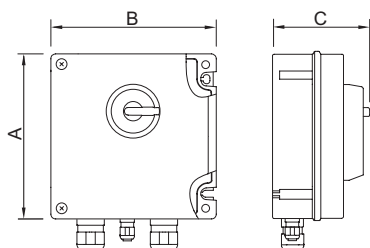
Selection Table

Rated operational current	125.00 A / 160.00 A						
Colour of handle	Auxiliary contact NC	Auxiliary contact NO	Cable gland	Product Type	Art. No.	PS	Weight kg
Black shroud and handle	1 NC	1 NO / delayed	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	8150/5-V37-308-51-0010-K	201468	12	25.625
Yellow collar, red handle	1 NC	1 NO / delayed	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	8150/5-V37-308-51-1010-K	222694	12	25.625

Technical Data

Explosion Protection	
Gas explosion protection IECEx	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	Ex II 2 G Ex db eb IIC T6 Gb
Gas explosion protection EAC	1 Ex e . IIA...IIC T6...T3 Gb X
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ex II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tb IIIC T80 °C...T130 °C Db X
Certificates	ATEX (PTB), China (CQST), EAC (LPE), IECEx (PTB), India (PESO), Korea (KGS)
Ship approval	RS
Electrical Data	
Rated operational voltage AC	690 V
Notes	Auxiliary contact NO (1 x ON delayed - OFF leading)
Ambient Conditions	
Notes	Information regarding ambient conditions can be found on the Internet at r-stahl.com. WebCode 8150F
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	1.4404 stainless steel, (AISI 316L), brush finished
Additional terminal	Standard (without)
Type of connection cable	Finely stranded Solid
Seal	Silicone, foamed
Lockable in	3x in 0
Detailed number of poles	3-pole
Components	
Entry type	Standard 8161, moulded material
Accessories and spare parts on the Internet r-stahl.com	

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Version	Rated operational current	Product Type	Dimension A [mm]	Dimension B [mm]	Dimension C [mm]
3-pole	10, 12 / 16 A	8146/5-V37-300-50-...	112.5	112.5	131
		8146/5-V37-301-50-...	112.5	112.5	131
	16 A	8146/5-V37-302-50-...	170	112.5	132
		8146/5-V37-302-...-5..	340.5	170	132
		8150/5-V37-302-50-...	176.5	176.5	132
		8146/5-V37-302-50-0250	227	112.5	172
	20 A	8146/5-V37-303-50-...	170	170	132
	25 A	8146/5-V37-304-50-...	170	170	132
		8150/5-V37-304-50-...	176.5	176.5	132
	40 A	8146/5-V37-305-...-K	340.5	170	176.5
		8146/5-V37-305-...-5..	340.5	340.5	195
		8150/5-V37-305-...-K	360	176.5	194
	63 / 80 A	8146/5-V37-306-...-K	340.5	170	195
		8146/5-V37-306-...	340.5	340.5	195
8146/5-V37-306-...-5..		681.5	340.5	195	
8150/5-V37-306-S1-...		360	360	196	
80 A	8146/5-V37-307-...-5..	681.5	340.5	195	
125 / 160 A	8146/5-V37-308-...-K	681.5	340.5	205	
	8146/5-V37-308-...	681.5	681.5	205	
180 A	8146/5-V37-310-...-K	681.5	340.5	205	
	8146/5-V37-310-...	681.5	681.5	205	
6-pole	16 A	8146/5-V37-602-60-...	170	170	172
	25 A	8146/5-V37-604-60-...	227	170	172
	40 A	8146/5-V37-605-...-K	340.5	340.5	205
	63 / 80 A	8146/5-V37-606-...	681.5	340.5	205
	125 / 160 A	8146/5-V37-608-...	1023	681.5	243
	180 A	8146/5-V37-610-...	1023	681.5	243



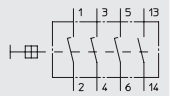
- Motor switching capacity AC-3 and AC-23 acc. to IEC 60947-3, EN 60947, DIN VDE 0660 Part 107
- With or without load-shedding contact
- Positive opening operation of the main contacts
- Isolating characteristics acc. to DIN VDE 0660
- Padlockable in "OFF" position with padlocks
- Rotary actuator with clear switching position
- High level of corrosion resistance in external components
- Marked with signal orange label "Safety Switch"

WebCode **8537A**



Safety switches ensure the obligatory disconnection of the machines and installations from the energy supply during cleaning and repair work. Usual preparatory work such as removal of fuses or disconnection of motors, which can be performed only by electrically skilled persons, is no longer required.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table						
Rated operational current	250 A					
Figure	Cable gland	Product Type	Art. No.	PS	Weight kg	
	2 x M63 Ø 28 ... 48 mm 1 x M20 Ø 4 ... 13 mm	8537/7-712-7000	147467	13	55.000	

Further versions (160, 315, 400, 500 A) on request.

Technical Data	
Explosion Protection	
Ambient temperature °C	-20 ... +40 °C
Gas explosion protection IECEx	Ex db eb IIC T5 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex db eb IIC T5 Gb
Dust explosion protection IECEx	Ex tb IIIIC T95 °C
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIIC T95 °C
Certificates	ATEX (PTB), EAC (STV), IECEx (PTB)
Electrical Data	
Rated operational voltage AC	690 V
Switching capacity note	according to IEC/EN 60947-3; DIN VDE 0660, Part 107
Switching capacity AC-3	U _e 230 V ~ = 75 kW U _e 400 V ~ = 132 kW U _e 500 V ~ = 160 kW U _e 690 V ~ = 160 kW
Switching capacity AC-23	U _e 230 V ~ = 75 kW U _e 400 V ~ = 132 kW U _e 500 V ~ = 160 kW U _e 690 V ~ = 200 kW

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Technical Data

Electrical Data

Auxiliary contact NO	1 NO / delayed
Notes	Auxiliary contact NO (1 x ON delayed - OFF leading)

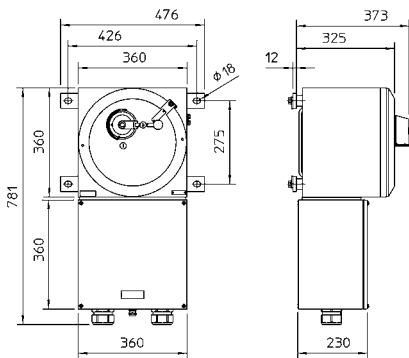
Ambient Conditions

Notes	Information regarding ambient conditions can be found on the Internet at r-stahl.com . WebCode 8537A
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Mechanical Data

Degree of protection (IP)	IP54
Type of protection note	IP65 with seal (accessory)
Enclosure material	Sheet steel, painted
Colour of handle	Standard black
Lockable in	3x in 0
Detailed number of poles	3-pole

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations





- Electric line and system protection for Ex e and Ex d motors
- Robust enclosure made from glass fibre-reinforced polyester resin
- Optional: Undervoltage release, shunt trip, ammeter, auxiliary contact

WebCode **8146N**



R. STAHL's 8146/5-V27 series moulded case circuit breakers for motor protection protect Ex e and Ex d motors and their associated electric lines and systems. The standard variants feature an adjustable, phase-sensitive thermal overcurrent release or electromagnetic tripping mechanism, which has to be specified during the ordering process. They cannot be retrofitted.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table								
Current-setting range		0.10 - 0.16 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	3 x M25 Ø 7 – 17 mm	T6	8146/5-V27-207-015-12-2	249192	12	2.610
		400 V	3 x M25 Ø 7 – 17 mm	T6	8146/5-V27-208-015-12-2	249193	12	2.610
		500 V	3 x M25 Ø 7 – 17 mm	T6	8146/5-V27-210-015-12-2	249194	12	2.610
1 NO 1 NC	Without	0 V	3 x M25 Ø 7 – 17 mm	T6	8146/5-V27-201-015-02-2	249238	12	2.600
Without	Undervoltage release	230 V	3 x M25 Ø 7 – 17 mm	T6	8146/5-V27-107-015-10-2	249151	12	2.610
		400 V	3 x M25 Ø 7 – 17 mm	T6	8146/5-V27-108-015-10-2	249152	12	2.610
		500 V	3 x M25 Ø 7 – 17 mm	T6	8146/5-V27-110-015-10-2	249153	12	2.610
Current-setting range		0.16 - 0.25 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	3 x M25 Ø 7 – 17 mm	T6	8146/5-V27-207-025-12-2	249195	12	2.630
		400 V	3 x M25 Ø 7 – 17 mm	T6	8146/5-V27-208-025-12-2	249196	12	2.630
		500 V	3 x M25 Ø 7 – 17 mm	T6	8146/5-V27-210-025-12-2	249197	12	2.630
1 NO 1 NC	Without	0 V	3 x M25 Ø 7 – 17 mm	T6	8146/5-V27-201-025-02-2	249239	12	2.600

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Selection Table

Current-setting range		0.16 - 0.25 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
Without	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T6	8146/5-V27-107-025-10-2	249154	12	2.630
		400 V	3 x M25 Ø 7 - 17 mm	T6	8146/5-V27-108-025-10-2	249155	12	2.630
		500 V	3 x M25 Ø 7 - 17 mm	T6	8146/5-V27-110-025-10-2	249156	12	2.630
Current-setting range		0.25 - 0.40 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-207-035-12-2	249198	12	2.630
		400 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-208-035-12-2	249199	12	2.630
		500 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-210-035-12-2	249200	12	2.630
1 NO 1 NC	Without	0 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-201-035-02-2	249240	12	2.600
Without	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-107-035-10-2	249157	12	2.630
		400 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-108-035-10-2	249158	12	2.630
		500 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-110-035-10-2	249159	12	2.630
Current-setting range		0.40 - 0.63 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-207-045-12-2	249201	12	2.630
		400 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-208-045-12-2	249202	12	2.630
		500 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-210-045-12-2	249203	12	2.630
1 NO 1 NC	Without	0 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-201-045-02-2	249241	12	2.600
Without	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-107-045-10-2	249160	12	2.630
		400 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-108-045-10-2	249161	12	2.630
		500 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-110-045-10-2	249162	12	2.630
Current-setting range		0.63 - 1.00 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-207-055-12-2	249204	12	2.630
		400 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-208-055-12-2	249205	12	2.630
		500 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-210-055-12-2	249206	12	2.630
1 NO 1 NC	Without	0 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-201-055-02-2	249242	12	2.600
Without	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-107-055-10-2	249163	12	2.630
		400 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-108-055-10-2	249164	12	2.630
		500 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-110-055-10-2	249165	12	2.630

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Selection Table								
Current-setting range		1.00 - 1.60 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-207-065-12-2	249207	12	2.700
		400 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-208-065-12-2	249208	12	2.700
		500 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-210-065-12-2	249209	12	2.700
1 NO 1 NC	Without	0 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-201-065-02-2	249243	12	2.630
Without	Undervoltage release	230 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-107-065-10-2	249166	12	2.700
		400 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-108-065-10-2	249167	12	2.700
		500 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-110-065-10-2	249168	12	2.700
Current-setting range		1.60 - 2.50 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-207-075-12-2	249210	12	2.700
		400 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-208-075-12-2	249211	12	2.700
		500 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-210-075-12-2	249212	12	2.700
1 NO 1 NC	Without	0 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-201-075-02-2	249244	12	2.630
Without	Undervoltage release	230 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-107-075-10-2	249169	12	2.700
		400 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-108-075-10-2	249170	12	2.700
		500 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-110-075-10-2	249171	12	2.700
Current-setting range		2.50 - 4.00 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-207-085-12-2	249213	12	2.800
		400 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-208-085-12-2	249214	12	2.800
		500 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-210-085-12-2	249215	12	2.800
1 NO 1 NC	Without	0 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-201-085-02-2	249245	12	2.630
Without	Undervoltage release	230 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-107-085-10-2	249172	12	2.800
		400 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-108-085-10-2	249173	12	2.800
		500 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-110-085-10-2	249174	12	2.800
Current-setting range		4.00 - 6.30 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-207-095-12-2	249216	12	2.800
		400 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-208-095-12-2	249217	12	2.800
		500 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-210-095-12-2	249218	12	2.800
1 NO 1 NC	Without	0 V	3 x M25 Ø 7 – 17 mm	T5	8146/5-V27-201-095-02-2	249246	12	2.630

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Selection Table

Current-setting range		4.00 - 6.30 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
Without	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-107-095-10-2	249175	12	2.800
		400 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-108-095-10-2	249176	12	2.800
		500 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-110-095-10-2	249177	12	2.800
Current-setting range		6.30 - 9.00 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-207-105-12-2	249219	12	3.000
		400 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-208-105-12-2	249220	12	3.000
		500 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-210-105-12-2	249221	12	3.000
1 NO 1 NC	Without	0 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-201-105-02-2	249247	12	2.850
Without	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-107-105-10-2	249178	12	3.000
		400 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-108-105-10-2	249179	12	3.000
		500 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-110-105-10-2	249180	12	3.000
Current-setting range		9.00 - 12.50 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-207-115-12-2	249222	12	3.350
		400 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-208-115-12-2	249223	12	3.350
		500 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-210-115-12-2	249224	12	3.350
1 NO 1 NC	Without	0 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-201-115-02-2	249248	12	3.200
Without	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-107-115-10-2	249183	12	3.350
		400 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-108-115-10-2	249185	12	3.350
		500 V	3 x M25 Ø 7 - 17 mm	T5	8146/5-V27-110-115-10-2	249186	12	3.350
Current-setting range		12.50 - 16.00 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T4	8146/5-V27-207-125-12-2	249225	12	3.700
		400 V	3 x M25 Ø 7 - 17 mm	T4	8146/5-V27-208-125-12-2	249226	12	3.700
		500 V	3 x M25 Ø 7 - 17 mm	T4	8146/5-V27-210-125-12-2	249227	12	3.700
1 NO 1 NC	Without	0 V	3 x M25 Ø 7 - 17 mm	T4	8146/5-V27-201-125-02-2	249249	12	3.550
Without	Undervoltage release	230 V	3 x M25 Ø 7 - 17 mm	T4	8146/5-V27-107-125-10-2	249187	12	3.700
		400 V	3 x M25 Ø 7 - 17 mm	T4	8146/5-V27-108-125-10-2	249188	12	3.700
		500 V	3 x M25 Ø 7 - 17 mm	T4	8146/5-V27-110-125-10-2	249189	12	3.700

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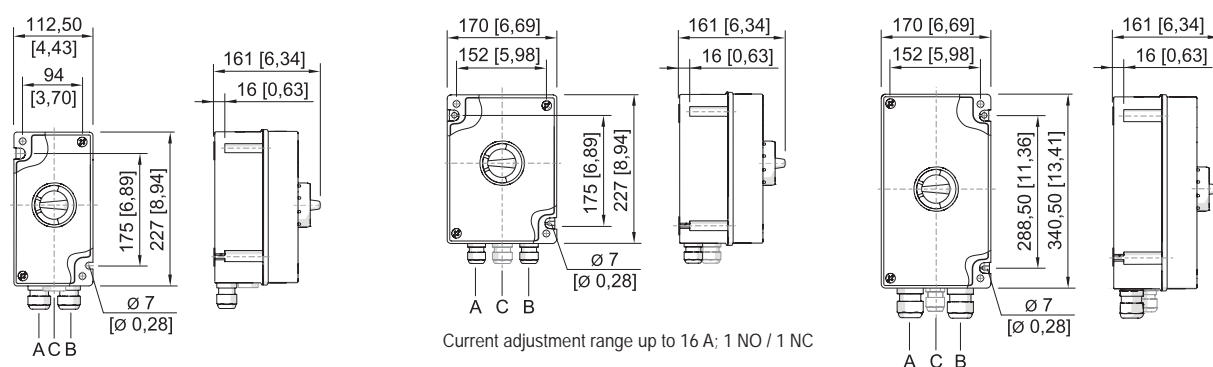
Selection Table								
Current-setting range		16.00 - 20.00 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 – 17 mm	T5	8146/5-V27-407-135-12-4	249232	12	4.400
		400 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 – 17 mm	T5	8146/5-V27-408-135-12-4	249233	12	4.400
		500 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 – 17 mm	T5	8146/5-V27-410-135-12-4	249234	12	4.400
1 NO 1 NC	Without	0 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 to 17 mm	T5	8146/5-V27-401-135-02-4	249250	12	4.250
Without	Undervoltage release	0 V	2 x M32 Ø 9 – 21 mm	T5	8146/5-V27-301-135-00-3	147203 ▲	12	4.200
		230 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 – 17 mm	T5	8146/5-V27-307-135-10-4	249228	12	4.400
		400 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 – 17 mm	T5	8146/5-V27-308-135-10-4	249229	12	4.400
		500 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 – 17 mm	T5	8146/5-V27-310-135-10-4	249190	12	4.400
Current-setting range		20.00 - 22.50 A						
Auxiliary contacts	Release	Release voltage AC	Screw connections	Gas temperature class	Product Type	Art. No.	PS	Weight kg
1 NC 1 NO	Undervoltage release	230 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 to 17 mm	T5	8146/5-V27-407-145-12-4	249235	12	4.400
		400 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 to 17 mm	T5	8146/5-V27-408-145-12-4	249236	12	4.400
		500 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 to 17 mm	T5	8146/5-V27-410-145-12-4	249237	12	4.400
1 NO 1 NC	Without	0 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 to 17 mm	T5	8146/5-V27-401-145-02-4	249251	12	4.250
Without	Undervoltage release	500 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 – 17 mm	T4	8146/5-V27-110-145-10-4	249191	12	4.400
		0 V	2 x M32 Ø 9 – 21 mm	T5	8146/5-V27-301-145-00-3	147204	12	4.200
		230 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 – 17 mm	T5	8146/5-V27-307-145-10-4	249230	12	4.400
		400 V	2 x M32 Ø 9 – 21 mm 1 x M25 Ø 7 – 17 mm	T5	8146/5-V27-308-145-10-4	249231	12	4.400

Technical Data			
Variant	Gas temperature class T4	Gas temperature class T5	Gas temperature class T6
Explosion Protection			
Gas explosion protection IECEx	Ex db eb IIC T4 Gb	Ex db eb IIC T5 Gb	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC T4 Gb	Ⓔ II 2 G Ex db eb IIC T5 Gb	Ⓔ II 2 G Ex db eb IIC T6 Gb
Gas explosion protection EAC	1 Ex e * IIA ... IIC T6 ... T3 Gb X	1 Ex e * IIA ... IIC T6 ... T3 Gb X	1 Ex e * IIA ... IIC T6 ... T3 Gb X
Dust explosion protection IECEx	Ex tb IIIC T130 °C Db	Ex tb IIIC T95 °C Db	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T130 °C Db	Ⓔ II 2 D Ex tb IIIC T95 °C Db	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tb IIIC T80 °C ... T130 °C Db X	Ex tb IIIC T80 °C ... T130 °C Db X	Ex tb IIIC T80 °C ... T130 °C Db X
Certificates	ATEX (PTB), Canada (FM), China (NEPSI), EAC (LPE), IECEx (PTB)	ATEX (PTB), Canada (FM), China (NEPSI), EAC (LPE), IECEx (PTB)	ATEX (PTB), Canada (FM), China (NEPSI), EAC (LPE), IECEx (PTB)
Electrical Data			
No. of poles	3	3	3
Ambient Conditions			
Ambient temperature	-20°C ... +40°C	-20°C ... +40°C	-20°C ... +40°C
Notes	Information regarding ambient conditions can be found on the Internet at r-stahl.com. WebCode 8146N		
Mechanical Data			
Degree of protection (IP)	IP66	IP66	IP66
Enclosure material	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced

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Technical Data			
Variant	Gas temperature class T4	Gas temperature class T5	Gas temperature class T6
Mechanical Data			
Colour of handle	Black	Black	Black
Colour of protective collar	Black	Black	Black
Labelling rotary actuator	0 - I	0 - I	0 - I
Seal	Silicone, foamed	Silicone, foamed	Silicone, foamed
Lockable in	3x in 0	3x in 0	3x in 0
Components			
Entry type	Standard 8161, moulded material	Standard 8161, moulded material	Standard 8161, moulded material

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Current adjustment range up to 16 A; without auxiliary contact

Current adjustment range up to 16 A; 1 NO / 1 NC

Current adjustment range 16 ... 20 A and 20 ... 22.5 A; with / without auxiliary contact

Cable entries

Version	Auxiliary contacts	Cable glands Series 8161		Stopping plugs Series 8290
		M25 x 1.5	M32 x 1.5	
Current adjustment range up to 16 A	without	A, B	--	C
	with	A, B, C	--	--
Current adjustment range 16 ... 20 A, 20 ... 22.5 A	without	--	A, B	C
	with	C	A, B	--



- Motor starters with international approval
- Robust design: seawater-resistant enclosure, can be used in a large temperature range
- Control panels: Direct-On-Line Motor Starter DOL, star-delta contactor combinations YD, reversing contactor combinations

WebCode **8264D**



R. STAHL Series 8264/5 "CUBEx" standard motor starters are installed in a seawater-resistant Ex d enclosure and are suitable for a large temperature range. They are available in various control variants. As an option, the control panels can be fitted with main switches, main and control fuses and control devices as per the customer's requirements.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table						
Product Description	Direct-on-line motor starter (DOL)					
Enclosure	Terminal	Threaded holes on bottom	Product Type	Art. No.	PS	Weight kg
8264/5212	4 x 6 mm ² 3 x 4 mm ²	1 x M32 3 x M25 -	8264/5-SM-ES5,5kW400V-T	143158	13	30.000
	4 x 10 mm ² 3 x 6 mm ²	1 x M32 3 x M25 -	8264/5-SM-ES11kW400V-T	143163	13	30.000
	4 x 10 mm ² 3 x 6 mm ²	1 x M32 3 x M25 -	8264/5-SM-ES7,5kW400V-T	143161	13	30.000
	4 x 16 mm ² 3 x 6 mm ²	1 x M32 3 x M25 -	8264/5-SM-ES15kW400V-T	143165	13	30.000
	4 x 16 mm ² 3 x 10 mm ²	1 x M32 3 x M25 -	8264/5-SM-ES18kW400V-T	143167	13	30.000
	4 x 35 mm ² 3 x 10 mm ²	1 x M40 1 x M32 2 x M25	8264/5-SM-ES22kW400V-T	143169	13	30.000
	8264/5222	4 x 35 mm ² 3 x 10 mm ²	1 x M40 1 x M32 2 x M25	8264/5-SM-ES30kW400V-T	143171	13
4 x 35 mm ² 3 x 10 mm ²		1 x M40 1 x M32 2 x M25	8264/5-SM-ES37kW400V-T	143173	13	39.000
4 x 50 mm ² 3 x 35 mm ²		1 x M50 1 x M40 2 x M25	8264/5-SM-ES45kW400V-T	143175	13	39.000

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Selection Table

Direct-on-line motor starter (DOL)						
Product Description	Terminal	Threaded holes on bottom	Product Type	Art. No.	PS	Weight kg
8264/5323	4 x 50 mm ² 3 x 35 mm ²	1 x M50 1 x M40 2 x M25	8264/5-SM-ES55kW400V-T	143177	13	69.000
	4 x 50 mm ² 3 x 35 mm ²	1 x M50 1 x M40 2 x M25	8264/5-SM-ES75kW400V-T	143179	13	69.000
Reversing starter combination						
Product Description	Terminal	Threaded holes on bottom	Product Type	Art. No.	PS	Weight kg
8264/5112	4 x 6 mm ² 3 x 4 mm ²	2 x M32 2 x M25 -	8264/5-SM-WS5,5kW400V-T	143219	13	19.000
8264/5222	4 x 6 mm ² 3 x 4 mm ²	2 x M32 2 x M25 -	8264/5-SM-WS7,5kW400V-T	143220	13	39.000
	4 x 10 mm ² 3 x 6 mm ²	2 x M32 2 x M25 -	8264/5-SM-WS11kW400V-T	143221	13	39.000
	4 x 16 mm ² 3 x 6 mm ²	2 x M32 2 x M25 -	8264/5-SM-WS15kW400V-T	143222	13	39.000
8264/5323	4 x 16 mm ² 3 x 10 mm ²	2 x M32 2 x M25 -	8264/5-SM-WS18,5kW400V-T	143223	13	39.000
	4 x 35 mm ² 3 x 16 mm ²	1 x M40 1 x M32 2 x M25	8264/5-SM-WS22kW400V-T	143224	13	39.000
	4 x 35 mm ² 3 x 16 mm ²	1 x M40 1 x M32 2 x M25	8264/5-SM-WS30kW400V-T	143225	13	39.000
8264/5323	4 x 50 mm ² 3 x 35 mm ²	1 x M40 1 x M32 2 x M25	8264/5-SM-WS37kW400V-T	143226	13	69.000
	4 x 95 mm ² 3 x 35 mm ²	1 x M50 1 x M40 2 x M25	8264/5-SM-WS45kW400V-T	143227	13	69.000
8264/5333	4 x 95 mm ² 3 x 50 mm ²	1 x M50 1 x M40 2 x M25	8264/5-SM-WS55kW400V-T	143228	13	87.000
	4 x 95 mm ² 3 x 95 mm ²	1 x M63 1 x M50 2 x M25	8264/5-SM-WS75kW400V-T	143229	13	87.000
YD star-delta contactor combination						
Product Description	Terminal	Threaded holes on bottom	Product Type	Art. No.	PS	Weight kg
8264/5222	4 x 6 mm ² 6 x 4 mm ²	3 x M32 2 x M25 -	8264/5-SM-SS11kW400V-T	143182	13	39.000
	4 x 6 mm ² 6 x 4 mm ²	3 x M32 2 x M25 -	8264/5-SM-SS15kW400V-T	143184	13	39.000
	4 x 6 mm ² 6 x 4 mm ²	3 x M32 2 x M25 -	8264/5-SM-SS18,5kW400V-T	143186	13	39.000
	4 x 10 mm ² 6 x 6 mm ²	3 x M32 2 x M25 -	8264/5-SM-SS22kW400V-T	143188	13	39.000

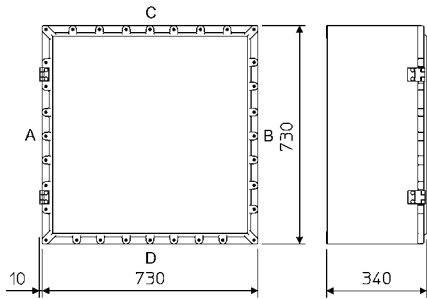
Selection Table						
Product Description		YD star-delta contactor combination				
Enclosure	Terminal	Threaded holes on bottom	Product Type	Art. No.	PS	Weight kg
8264/5323	4 x 16 mm ² 6 x 6 mm ²	3 x M40 2 x M25 -	8264/5-SM-SS30kW400V-T	143190	13	69.000
	4 x 35 mm ² 6 x 10 mm ²	3 x M40 2 x M25 -	8264/5-SM-SS37kW400V-T	143192	13	69.000
	4 x 35 mm ² 6 x 16 mm ²	1 x M50 2 x M40 2 x M25	8264/5-SM-SS45kW400V-T	143194	13	69.000
	4 x 50 mm ² 6 x 35 mm ²	1 x M50 2 x M40 2 x M25	8264/5-SM-SS55kW400V-T	143196	13	69.000
	4 x 50 mm ² 6 x 35 mm ²	1 x M50 2 x M40 2 x M25	8264/5-SM-SS75kW400V-T	143198	13	69.000
8264/5933	4 x 95 mm ² 6 x 50 mm ²	1 x M63 2 x M40 2 x M25	8264/5-SM-SS90kW400V-T	143200	13	152.000
	4 x 150 mm ² 6 x 95 mm ²	1 x M63 2 x M50 2 x M25	8264/5-SM-SS110kW400V-T	143202	13	152.000
8264/5993	4 x 150 mm ² 6 x 95 mm ²	1 x M63 2 x M50 2 x M25	8264/5-SM-SS132kW400V-T	143204	13	236.000
	4 x 240 mm ² 6 x 150 mm ²	3 x M63 2 x M25 -	8264/5-SM-SS160kW400V-T	143206	13	236.000
	4 x 240 mm ² 6 x 150 mm ²	3 x M63 2 x M25 -	8264/5-SM-SS200kW400V-T	143208	13	236.000

Standard motor starters with threaded holes; please order cable glands separately.

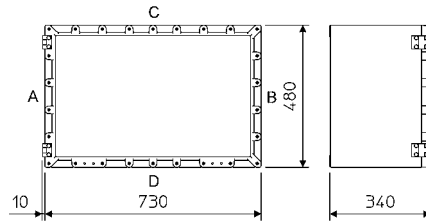
Cable glands, see chapter E10 - Installation Equipment and Accessories.

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex db IIB+H2 T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db IIB+H2 T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (DEK), Brazil (ULB), Canada / USA (UL), China (CQST), IECEx (DEK), India (PESO), Korea (KGS), Taiwan (ITRI)
Electrical Data	
Rated operational voltage AC	400 – 400 V
Ambient Conditions	
Ambient temperature	-20 °C ... +40 °C
Notes	Others on request
Mechanical Data	
Degree of protection (IP)	IP65
Enclosure material	Aluminium, copper-free, Seawater-resistant
Notes	Special: Enclosure made of stainless steel

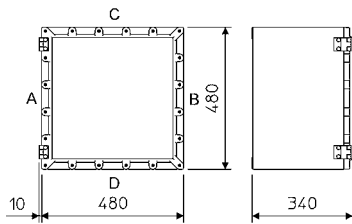
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



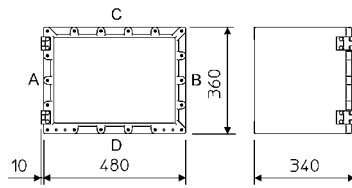
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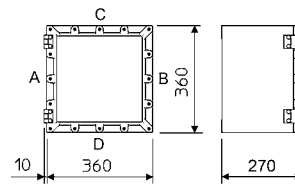
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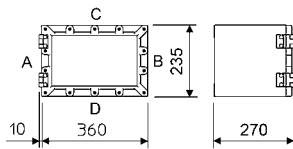
8264/5333



8264/5323



8264/5222



8264/5212



- Modular motor starters for all gas groups
- Control panels: Direct-On-Line Motor Starter DOL, YD, reversing contactor combinations
- Optional customer-specific equipping with main switches, main fuses and control devices

WebCode **8220A**



R. STAHL Series 8220 standard motor starters are installed in Ex d enclosures and have an Ex e connection chamber enclosure. They are available in various control variants for rapid delivery. As an option, the control panels can be fitted with main switches, main fuses and control devices as per the customer's requirements.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table						
Product Description						
Direct-on-line motor starter (DOL)						
Enclosure	Terminal	Threaded holes on bottom	Product Type	Art. No.	PS	Weight kg
8225/112	4 x 6 mm ² 3 x 4 mm ²	2 x M32 2 x M25 -	8220/5-SM-ES5,5kW400V-T	142431	13	45.000
	4 x 10 mm ² 3 x 6 mm ²	2 x M32 2 x M25 -	8220/5-SM-ES11kW400V-T	142434	13	45.000
	4 x 10 mm ² 3 x 6 mm ²	2 x M32 2 x M25 -	8220/5-SM-ES7,5kW400V-T	142432	13	45.000
	4 x 16 mm ² 3 x 6 mm ²	2 x M32 2 x M25 -	8220/5-SM-ES15kW400V-T	142436	13	45.000
	4 x 16 mm ² 3 x 10 mm ²	2 x M32 2 x M25 -	8220/5-SM-ES18,5kW400V-T	142437	13	45.000
	4 x 35 mm ² 3 x 10 mm ²	1 x M40 1 x M32 2 x M25	8220/5-SM-ES22kW400V-T	142438	13	45.000

E7

Selection Table

Direct-on-line motor starter (DOL)						
Product Description	Terminal	Threaded holes on bottom	Product Type	Art. No.	PS	Weight kg
8225/122	4 x 35 mm ² 3 x 16 mm ²	1 x M40 1 x M32 2 x M25	8220/5-SM-ES30kW400V-T	142439	13	76.000
	4 x 35 mm ² 3 x 16 mm ²	1 x M40 1 x M32 2 x M25	8220/5-SM-ES37kW400V-T	142440	13	76.000
	4 x 50 mm ² 3 x 35 mm ²	1 x M50 1 x M40 2 x M25	8220/5-SM-ES45kW400V-T	142441	13	76.000
	4 x 50 mm ² 3 x 35 mm ²	1 x M50 1 x M40 2 x M25	8220/5-SM-ES55kW400V-T	142442	13	76.000
	4 x 50 mm ² 3 x 35 mm ²	1 x M50 1 x M40 2 x M25	8220/5-SM-ES75kW400V-T	142443	13	76.000
Reversing starter combination						
Product Description	Terminal	Threaded holes on bottom	Product Type	Art. No.	PS	Weight kg
8225/122	4 x 6 mm ² 3 x 4 mm ²	2 x M32 2 x M25 -	8220/5-SL-WS5,5kW400V-T	142458	13	76.000
	4 x 6 mm ² 3 x 4 mm ²	2 x M32 2 x M25 -	8220/5-SL-WS7,5kW400V-T	142459	13	76.000
	4 x 10 mm ² 3 x 6 mm ²	2 x M32 2 x M25 -	8220/5-SL-WS11kW400V-T	142460	13	76.000
	4 x 16 mm ² 3 x 6 mm ²	2 x M32 2 x M25 -	8220/5-SL-WS15kW400V-T	142461	13	76.000
	4 x 16 mm ² 3 x 10 mm ²	2 x M32 2 x M25 -	8220/5-SL-WS18,5kW400V-T	142462	13	76.000
	4 x 35 mm ² 3 x 16 mm ²	1 x M40 1 x M32 2 x M25	8220/5-SL-WS22kW400V-T	142463	13	76.000
	4 x 35 mm ² 3 x 16 mm ²	1 x M40 1 x M32 2 x M25	8220/5-SL-WS30kW400V-T	142464	13	76.000
	4 x 35 mm ² 3 x 16 mm ²	1 x M40 1 x M32 2 x M25	8220/5-SL-WS37kW400V-T	142465	13	76.000
	4 x 95 mm ² 3 x 35 mm ²	1 x M50 1 x M40 2 x M25	8220/5-SL-WS45kW400V-T	142466	13	76.000
	8225/133	4 x 95 mm ² 3 x 50 mm ²	1 x M50 1 x M40 2 x M25	8220/5-SL-WS55kW400V-T	142467	13
4 x 95 mm ² 3 x 95 mm ²		1 x M63 1 x M50 2 x M25	8220/5-SL-WS75kW400V-T	142468	13	141.000

Selection Table						
Product Description		YD star-delta contactor combination				
Enclosure	Terminal	Threaded holes on bottom	Product Type	Art. No.	PS	Weight kg
8225/122	4 x 6 mm ² 6 x 4 mm ²	3 x M32 2 x M25 -	8220/5-SL-SS11kW400V-T	142444	13	76.000
	4 x 6 mm ² 6 x 4 mm ²	3 x M32 2 x M25 -	8220/5-SL-SS15kW400V-T	142445	13	76.000
	4 x 6 mm ² 6 x 4 mm ²	3 x M32 2 x M25 -	8220/5-SL-SS18,5kW400V-T	142446	13	76.000
	4 x 10 mm ² 6 x 6 mm ²	3 x M32 2 x M25 -	8220/5-SL-SS22kW400V-T	142447	13	76.000
8225/132	4 x 35 mm ² 6 x 16 mm ²	1 x M50 2 x M40 2 x M25	8220/5-SL-SS45kW400V-T	142450	13	127.000
	4 x 50 mm ² 6 x 35 mm ²	1 x M50 2 x M40 2 x M25	8220/5-SL-SS55kW400V-T	142451	13	127.000
	4 x 50 mm ² 6 x 35 mm ²	1 x M50 2 x M40 2 x M25	8220/5-SL-SS75kW400V-T	142452	13	127.000
8225/133	4 x 95 mm ² 6 x 50 mm ²	1 x M63 2 x M40 2 x M25	8220/5-SL-SS90kW400V-T	142453	13	141.000
	4 x 150 mm ² 6 x 95 mm ²	1 x M63 2 x M50 2 x M25	8220/5-SL-SS110kW400V-T	142454	13	141.000
	4 x 150 mm ² 6 x 95 mm ²	1 x M63 2 x M50 2 x M25	8220/5-SL-SS132kW400V-T	142455	13	141.000
8225/172	4 x 16 mm ² 6 x 6 mm ²	3 x M40 2 x M25 -	8220/5-SL-SS30kW400V-T	142448	13	96.000
	4 x 35 mm ² 6 x 10 mm ²	3 x M40 2 x M25 -	8220/5-SL-SS37kW400V-T	142449	13	96.000
8225/196	4 x 240 mm ² 6 x 150 mm ²	3 x M63 2 x M25 -	8220/5-SL-SS160kW400V-T	142456	13	383.000
	4 x 240 mm ² 6 x 150 mm ²	3 x M63 2 x M25 -	8220/5-SL-SS200kW400V-T	142457	13	383.000

Standard motor starters with threaded holes; please order cable glands separately.

Cable glands, see chapter E10 - Installation Equipment and Accessories.

E7

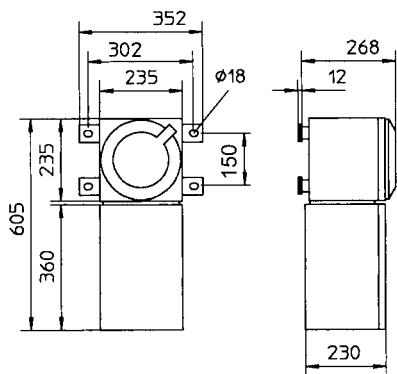
Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex db eb IIC T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Electrical Data	
Rated operational voltage AC	400 - 400 V
Ambient Conditions	
Ambient temperature	-20 °C ... +40 °C

Technical Data

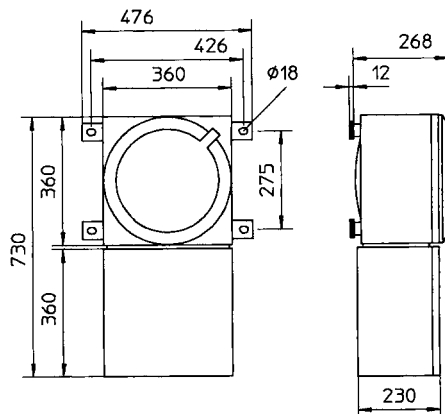
Mechanical Data

Degree of protection (IP)	IP54
Type of protection note	IP65 with seal (accessory)
Enclosure material	Sheet steel, painted
Enclosure colour	Light grey (RAL 7035)

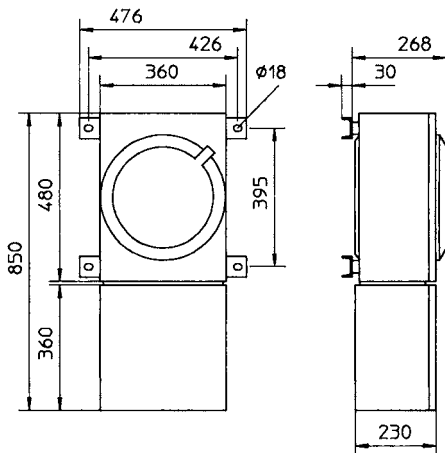
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



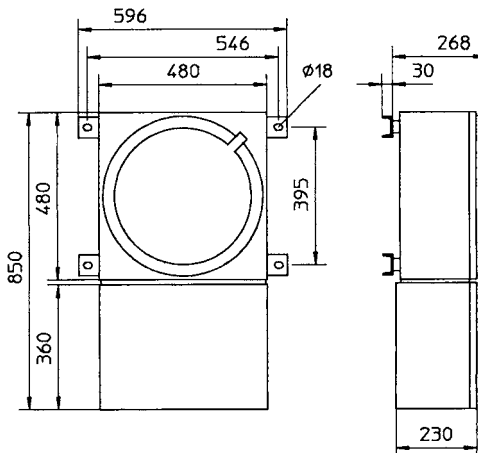
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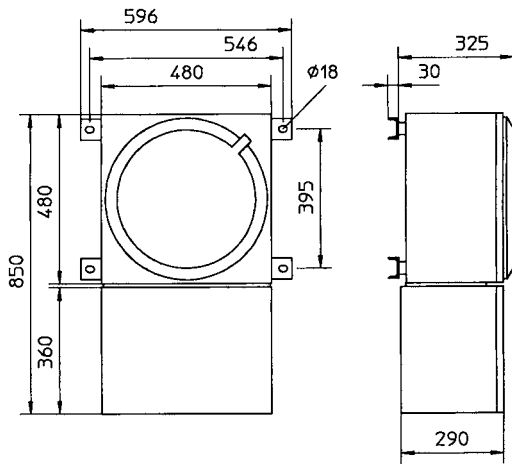
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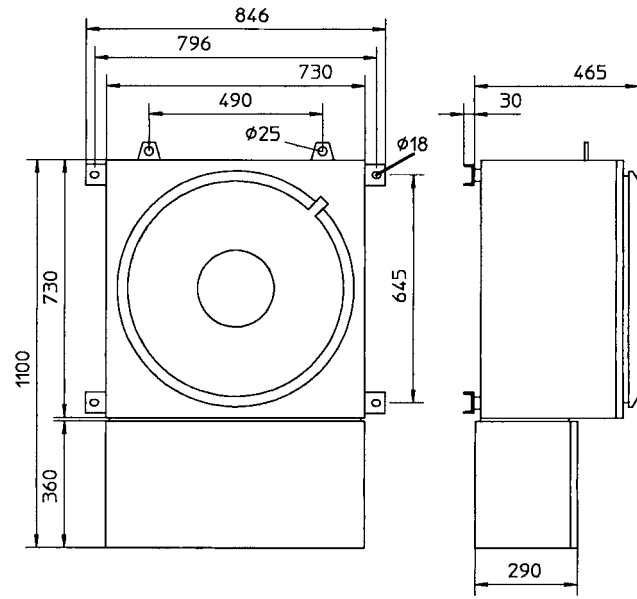
8220/172



8220/132



8220/133



8220/196

INTEGRATED SOLUTIONS · LOW VOLTAGE SYSTEMS



Product	Installation in Zone						Series	Page	WebCode
	0	1	2	20	21	22			
Lighting and Heating Panels									
Lighting and Heating Panel CUBEx		•	•		•	•	8264	797	8264A
Standard Lighting and Heat-Trace Panels		•	•		•	•	8146	792	8146D
Power Distribution Board									
Overview Module Technology, Flameproof Enclosures, CUBEx Systems								791	
UPS Uninterrupted Power Supply									
Ex UPS		•	•				8265	799	8265B

For additional products and information please refer to r-stahl.com



Module technology

Flameproof components are built into enclosures designed for "increased safety Ex e".

- Marine certification with individual acceptance
- Enclosure material: polyester resin or stainless steel
- Enclosure for modular combination
- Comprehensive construction and easy handling
- Installation of flameproof modules (Ex de): fuses, miniature circuit-breakers, switches, contactors, motor protection relay, etc.
- Terminals in Ex e "increased safety" standard
- Mounting frame system for wall-mounting or free-standing with or without protection roof



Flameproof enclosures

Standard industrial equipment can be built into flameproof enclosures of Ex de construction, pressure with standing.

- Marine certification with individual acceptance
- Enclosure material: sheet-steel or stainless steel
- Enclosure for modular combination
- Installation of standard electrical equipment: fuses, switches, contactors, programmable controllers, regulators, etc.
- Mounting frame system for wall-mounting or free-standing with or without protection roof
- Different installation system: indirect entry using Ex e connection chambers, direct entry using Ex d cable glands or conduit material



CUBEx systems

A highlight of the CUBEx system is its enclosure design. Straight walls enable extremely compact enclosure combinations. It is used when installing non-explosion-protected switchgears for control panels and distribution boards as well as for control boxes and terminal boxes.

- Marine certification with individual acceptance
- Entry method direct and indirect
- Compact and easy to combine
- Different installation system: indirect entry using Ex e connection chambers, direct entry using Ex d cable glands or conduit material



- Standard versions with short delivery times, customer-specific options possible
- With miniature circuit breaker, tripping characteristic C
- With residual current circuit breaker with overcurrent release, tripping characteristic C
- Rated currents 10, 16, 20, 25 A

WebCode **8146D**



R. STAHL Series 8146 lighting and heating panels are modular and are therefore available in a large number of standard variants which are available for rapid delivery. Customer-specific options are also possible. The circuit breakers are installed beneath a inspection window and can also be actuated from the outside, even under voltage. The switching position is visible at all times.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Product Description Built-in unit 2		Circuit distribution board light With miniature circuit breaker 6 x Miniature circuit breaker 1-pole 16A / C / 6 kA					
Rated operational current	Entry 1	Entry 2	Entry 3	Layout No.	Art. No.	PS	Weight kg
32 A	1 x 8161/7-M40-2812	6 x 8161/7-M25-1707	1 x 8161/7-M16-0902	01	137111	13	25.000
	1 x 8161/7-M40-2812	6 x 8161/7-M25-1707	1 x 8161/7-M16-0902	06	137135	13	25.000
Product Description Built-in unit 2		Circuit distribution board light With miniature circuit breaker 12 x Miniature circuit breaker 1-pole 16A / C / 6 kA					
Rated operational current	Entry 1	Entry 2	Entry 3	Layout No.	Art. No.	PS	Weight kg
64 A	1 x 8161/7-M50-3516	12 x 8161/7-M25-1707	1 x 8161/7-M16-0902	02	137118	13	37.000
	1 x 8161/7-M50-3516	12 x 8161/7-M25-1707	1 x 8161/7-M16-0902	07	137140	13	37.000
Product Description Built-in unit 2		Circuit distribution board light With miniature circuit breaker 18 x Miniature circuit breaker 1-pole 16A / C / 6 kA					
Rated operational current	Entry 1	Entry 2	Entry 3	Layout No.	Art. No.	PS	Weight kg
80 A	1 x 8161/7-M50-3516	18 x 8161/7-M25-1707	1 x 8161/7-M16-0902	03	137124	13	50.000
Product Description Built-in unit 2		Circuit distribution board light With miniature circuit breaker 24 x Miniature circuit breaker 1-pole 16A / C / 6 kA					
Rated operational current	Entry 1	Entry 2	Entry 3	Layout No.	Art. No.	PS	Weight kg
80 A	1 x 8161/7-M50-3516	24 x 8161/7-M25-1707	1 x 8161/7-M16-0902	04	137130	13	70.000

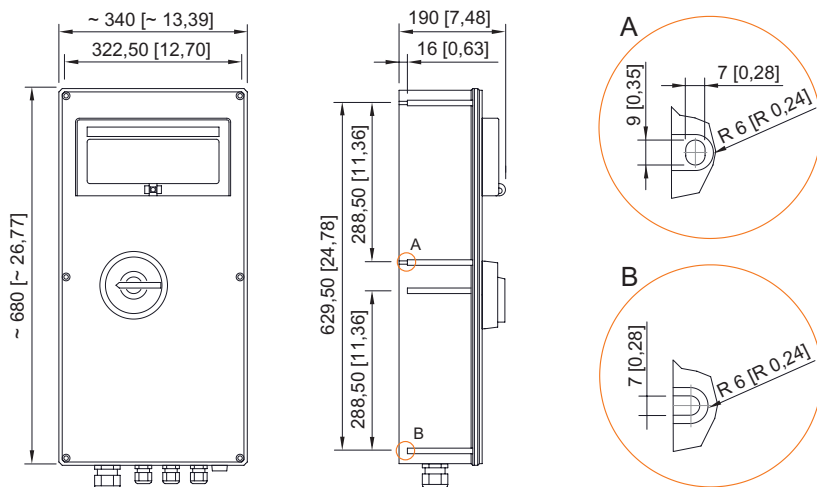
E8

Selection Table							
Product Description Built-in unit 2		Heating circuit distribution boards With residual current circuit breaker With overcurrent release 8 x With residual current circuit breaker 1-pole 16 A+N/30 mA/B/6 kA					
Rated operational current	Entry 1	Entry 2	Entry 3	Layout No.	Art. No.	PS	Weight kg
48 A	1 x 8161/7-M40-2812	8 x 8161/7-M25-1707	1 x 8161/7-M16-0902	02	137146	13	37.000
	1 x 8161/7-M40-2812	8 x 8161/7-M25-1707	1 x 8161/7-M16-0902	07	137171	13	37.000
Product Description Built-in unit 2		Heating circuit distribution boards With residual current circuit breaker With overcurrent release 8 x With residual current circuit breaker 1-pole 16 A+N/30 mA/C/6 kA					
Rated operational current	Entry 1	Entry 2	Entry 3	Layout No.	Art. No.	PS	Weight kg
48 A	1 x 8161/7-M40-2812	8 x 8161/7-M25-1707	1 x 8161/7-M16-0902	02	137161	13	37.000
	1 x 8161/7-M40-2812	8 x 8161/7-M25-1707	1 x 8161/7-M16-0902	07	137173	13	37.000
Product Description Built-in unit 2		Heating circuit distribution boards With residual current circuit breaker With overcurrent release 12 x With residual current circuit breaker 1-pole 16 A+N/30 mA/B/6 kA					
Rated operational current	Entry 1	Entry 2	Entry 3	Layout No.	Art. No.	PS	Weight kg
64 A	1 x 8161/7-M50-3516	12 x 8161/7-M25-1707	1 x 8161/7-M16-0902	03	137152	13	50.000
Product Description Built-in unit 2		Heating circuit distribution boards With residual current circuit breaker With overcurrent release 12 x With residual current circuit breaker 1-pole 16 A+N/30 mA/C/6 kA					
Rated operational current	Entry 1	Entry 2	Entry 3	Layout No.	Art. No.	PS	Weight kg
64 A	1 x 8161/7-M50-3516	12 x 8161/7-M25-1707	1 x 8161/7-M16-0902	03	137164	13	50.000
Product Description Built-in unit 2		Heating circuit distribution boards With residual current circuit breaker With overcurrent release 24 x With residual current circuit breaker 1-pole 16 A+N/30 mA/B/6 kA					
Rated operational current	Entry 1	Entry 2	Entry 3	Layout No.	Art. No.	PS	Weight kg
80 A	1 x 8161/7-M50-3516	24 x 8161/7-M25-1707	1 x 8161/7-M16-0902	05	137157	13	95.000
Product Description Built-in unit 2		Heating circuit distribution boards With residual current circuit breaker With overcurrent release 24 x With residual current circuit breaker 1-pole 16 A+N/30 mA/C/6 kA					
Rated operational current	Entry 1	Entry 2	Entry 3	Layout No.	Art. No.	PS	Weight kg
80 A	1 x 8161/7-M50-3516	24 x 8161/7-M25-1707	1 x 8161/7-M16-0902	05	137167	13	95.000

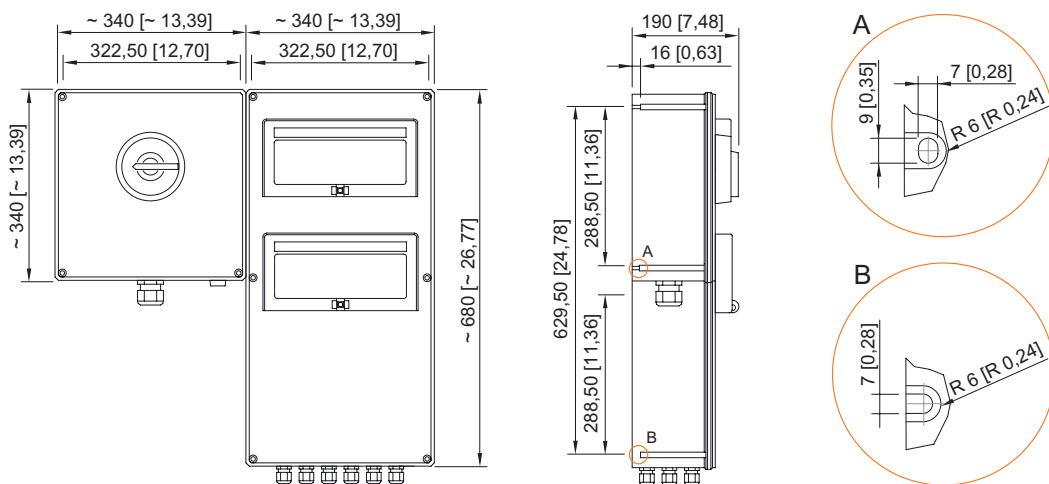
Technical Data	
Explosion Protection	
Ambient temperature °C	-20 ... +40 °C
Gas explosion protection IECEx	Ex db eb IIC T6 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex db eb IIC T6 Gb
Gas explosion protection EAC	Ex e* IIC...IIA T6 ... T4 Gb X
Dust explosion protection IECEx	Ex tb IIIC T80 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T80 °C Db
Dust explosion protection EAC	Ex tb IIIC T80 °C ... T130 °C Db X
Certificates	ATEX (PTB), Brazil (ULB), Canada (CSA), Canada (FM), China (NEPSI), EAC (LPE), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), USA (FM)
Mechanical Data	
Degree of protection IP (IEC 60529)	IP66
Enclosure material	Polyester resin, Glass fibre reinforced
Flame retardant acc.	IEC/EN 60695, UL 94, ASTM D635
Impact strength	7 J

E8

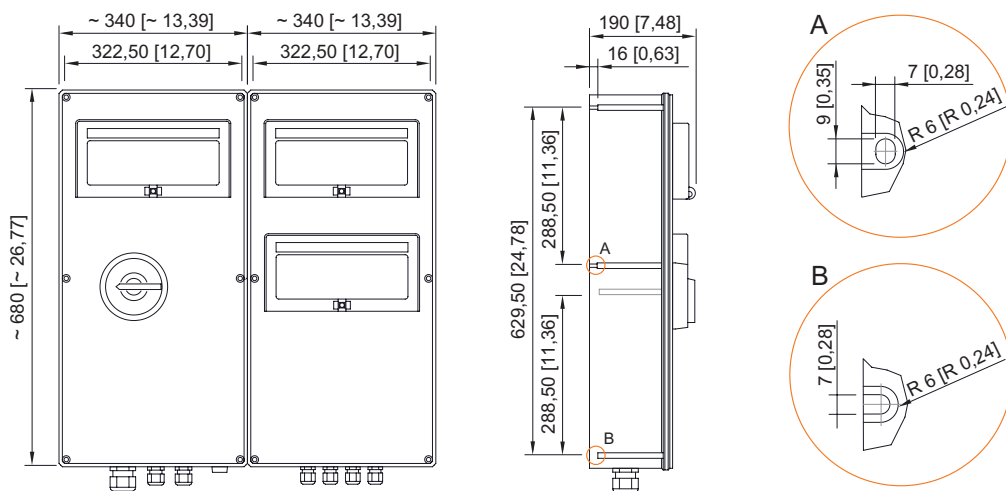
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Layout 01

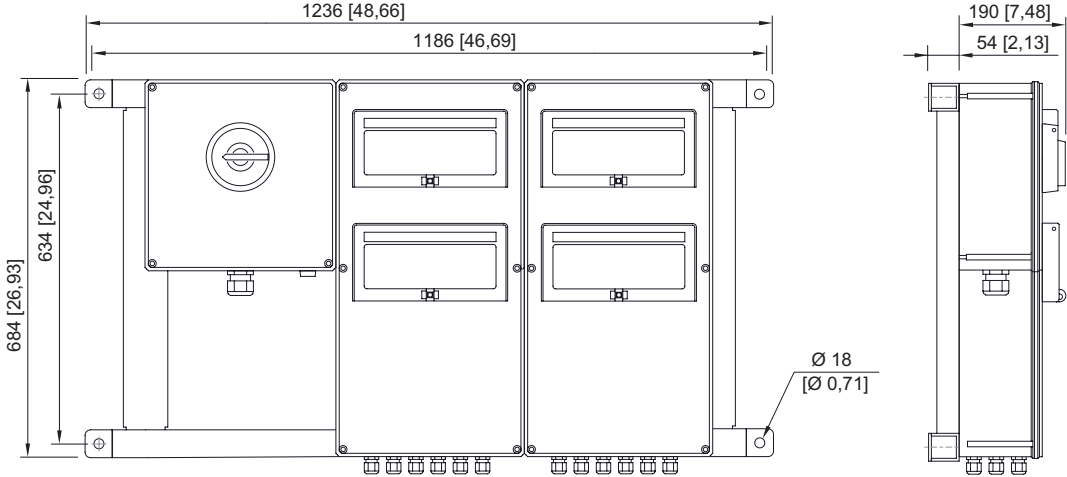


Layout 02

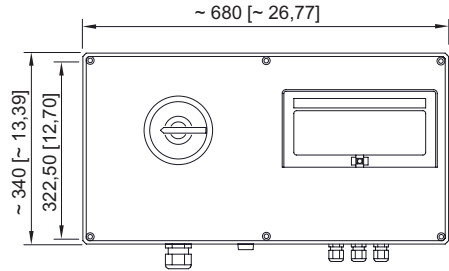
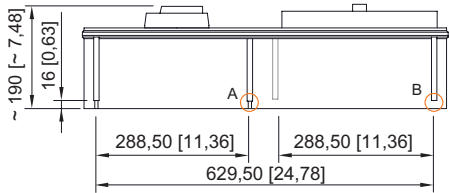
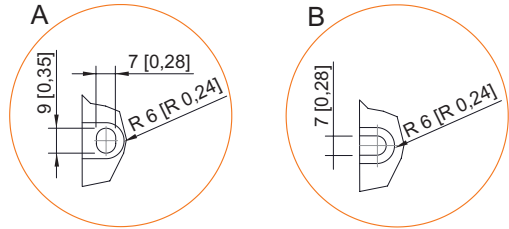


Layout 03

E8

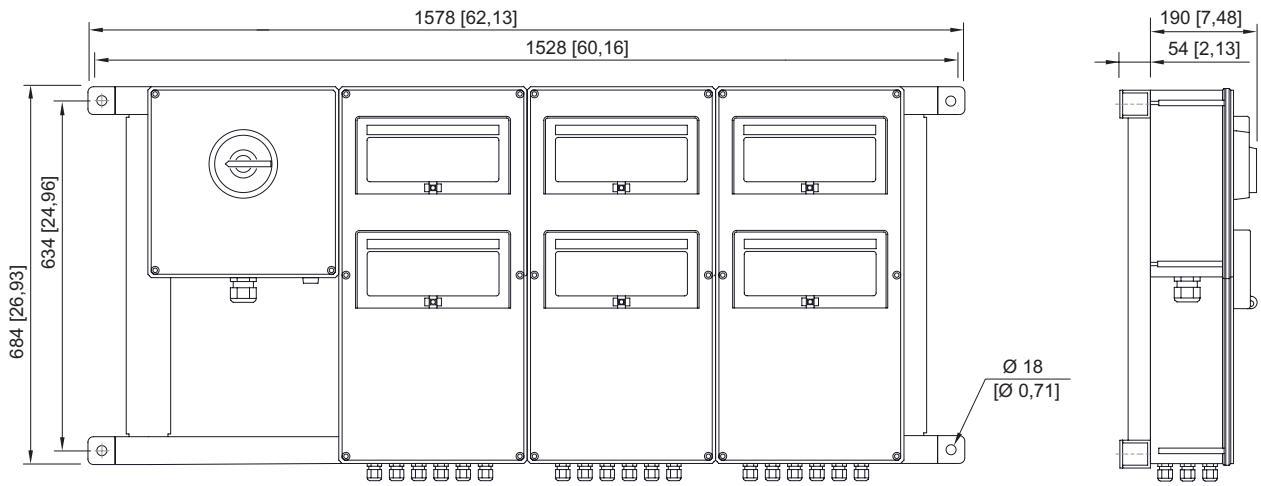


Layout 04

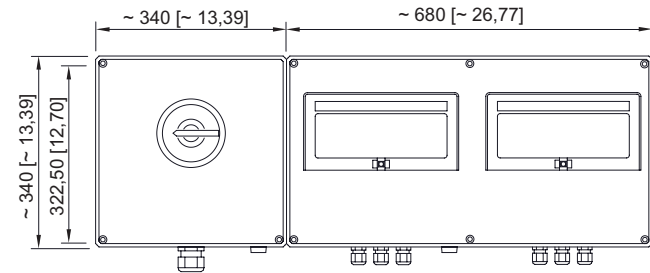
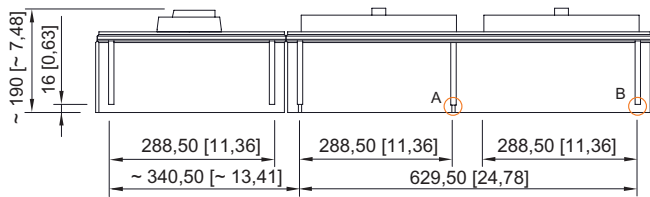
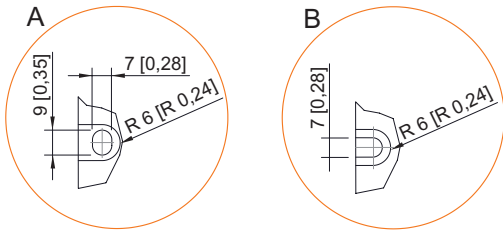


Layout 06

E8



Layout 05



Layout 07

E8



- Enclosures with Ex d protection
- With miniature circuit breaker, tripping characteristic C
- With residual current circuit breaker and overcurrent release, tripping characteristic B or C
- Advantage: short delivery time

WebCode **8264A**



R. STAHL Series 8264/-ExV CUBE_x lighting and heating panels are modular and are therefore available in a large number of standard variants which are available for rapid delivery; further versions are available on request. They are lightweight, seawater-resistant and suitable for a large temperature range. The Ex d enclosures are wall-mounted using screws or rails.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table						
Product Description Built-in unit 1		Circuit distribution board light With miniature circuit breaker 1 x Load and motor switch				
Layout No.	Built-in unit 2	Entry 1	Entry 2	Art. No.	PS	Weight kg
01	12 x Miniature circuit breaker 1-pole 16 A / C	1 x M50 x 1.5	12 x M20 x 1.5	143210	13	100.000
02	24 x Miniature circuit breaker 1-pole 16 A / C	1 x M50 x 1.5	24 x M20 x 1.5	143212	13	156.000
Product Description Built-in unit 1		Heating circuit distribution boards With residual current circuit breaker With overcurrent release 1 x Load and motor switch				
Layout No.	Built-in unit 2	Entry 1	Entry 2	Art. No.	PS	Weight kg
01	12 x With residual current circuit breaker 1-pole 16 A+N/30 mA/B	1 x M50 x 1.5	12 x M20 x 1.5	143214	13	100.000
	12 x With residual current circuit breaker 1-pole 16 A+N/30 mA/C	1 x M50 x 1.5	12 x M20 x 1.5	143217	13	100.000
02	24 x With residual current circuit breaker 1-pole 16 A+N/30 mA/B	1 x M50 x 1.5	24 x M20 x 1.5	143216	13	156.000
	24 x With residual current circuit breaker 1-pole 16 A+N/30 mA/C	1 x M50 x 1.5	24 x M20 x 1.5	143218	13	156.000

E8

Technical Data	
Explosion Protection	
Ambient temperature °C	-20 ... +40 °C
Gas explosion protection IECEx	Ex db IIB+H2 T6 Gb
Gas explosion protection ATEX	⊕ II 2 G Ex db IIB+H2 T6 Gb
Dust explosion protection IECEx	Ex tb IIIC T95 °C Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC T95 °C Db

Technical Data

Explosion Protection

Ambient temperature °C 2	-55 ... +60 °C
Gas explosion protection IECEx 2	Ex db IIB T4 Gb
Gas explosion protection ATEX 2	Ⓔ II 2 G Ex db IIB T4 Gb
Dust explosion protection IECEx 2	Ex tb IIIC T130 °C Db
Dust Explosion Protection ATEX 2	Ⓔ II 2 D Ex tb IIIC T130 °C Db
Certificates	ATEX (DEK), Brazil (ULB), Canada / USA (UL), China (CQST), IECEx (DEK), India (PESO), Korea (KGS), Taiwan (ITRI)
Notes	the ambient temperatures are dependent on the components used

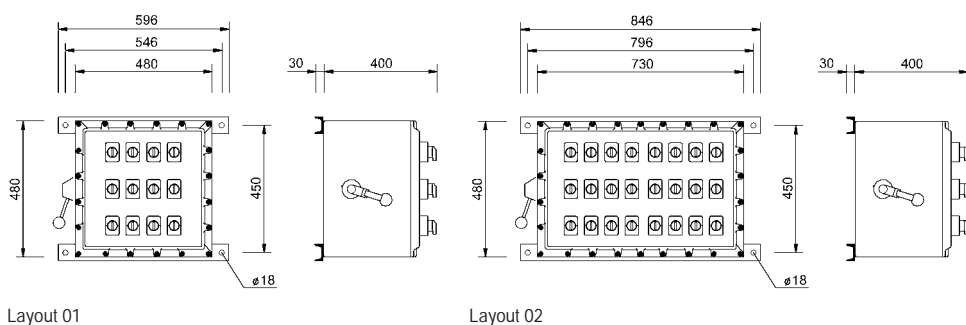
Electrical Data

Rated operational current	100 A
Rated operational voltage AC	230 - 400 V

Mechanical Data

Degree of protection IP (IEC 60529)	IP65
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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations





- Ex UPS guard battery monitoring in accordance with IEC/EN 60079 et seq.
- Adjustable buffer time
- Battery function test
- Potential-free signal outputs
- Maximum efficiency
- Increased for reliable triggering of the load fuse

WebCode **8265B**



Systems and data are put at risk from even brief power failures or large fluctuations in voltage. R. STAHL Series 8265 UPS systems offer compact and flexible protection since their stable output voltage ensures maximum availability via an adjustable UPS time. The measurements for battery capacity and the battery function tests provide even greater reliability.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table							
Input voltage		24 V DC					
Output voltage	Rated operational current	Power	Battery capacity	Buffer time max.	Art. No.	PS	Weight kg
24 V DC	2.1 A	50 – 200 W	10 Ah	10 min	258190	13	65.000
		50 – 200 W	25 Ah	60 min	258201	13	84.000
		50 – 200 W	40 Ah	120 min	258202	13	96.000
		50 – 200 W	60 Ah	180 min	258203	13	108.000
	10.5 A	250 – 300 W	10 Ah	10 min	258204	13	65.000
		250 – 300 W	25 Ah	30 min	258205	13	84.000
		250 – 300 W	40 Ah	60 min	258206	13	96.000
		250 – 300 W	60 Ah	120 min	258207	13	108.000
Input voltage		100 - 264 V AC					
Output voltage	Rated operational current	Power	Battery capacity	Buffer time max.	Art. No.	PS	Weight kg
24 V DC	2.1 A	50 – 200 W	10 Ah	10 min	258208	13	76.000
		50 – 200 W	25 Ah	60 min	258209	13	95.000
		50 – 200 W	40 Ah	120 min	258210	13	104.000
		50 – 200 W	60 Ah	180 min	258211	13	119.000
	10.5 A	250 – 300 W	10 Ah	10 min	258213	13	76.000
		250 – 300 W	25 Ah	30 min	258214	13	95.000
		250 – 300 W	40 Ah	60 min	258215	13	104.000
		250 – 300 W	60 Ah	120 min	258216	13	119.000

E8

Selection Table

180 - 264 V AC							
Input voltage	Rated operational current	Power	Battery capacity	Buffer time max.	Art. No.	PS	Weight kg
120 V DC	2.5 A	300 – 300 VA	40 Ah	30 min	258217	13	104.000
		300 – 300 VA	60 Ah	60 min	258218	13	119.000
230 V DC	1.3 A	300 – 300 VA	40 Ah	30 min	259147	13	104.000
		300 – 300 VA	60 Ah	60 min	259148	13	119.000

Further versions / designs on request

Technical Data

Explosion Protection

Gas explosion protection ATEX II 2 G Ex db eb IIC T6 Gb

Gas explosion protection ATEX 2 II 2 G Ex eb Gb

Certificates ATEX (PTB), IECEx (PTB), India (PESO)

Electrical Data

Conduction current 1.5 A

Ambient Conditions

Ambient temperature charging 0 °C ... +40 °C

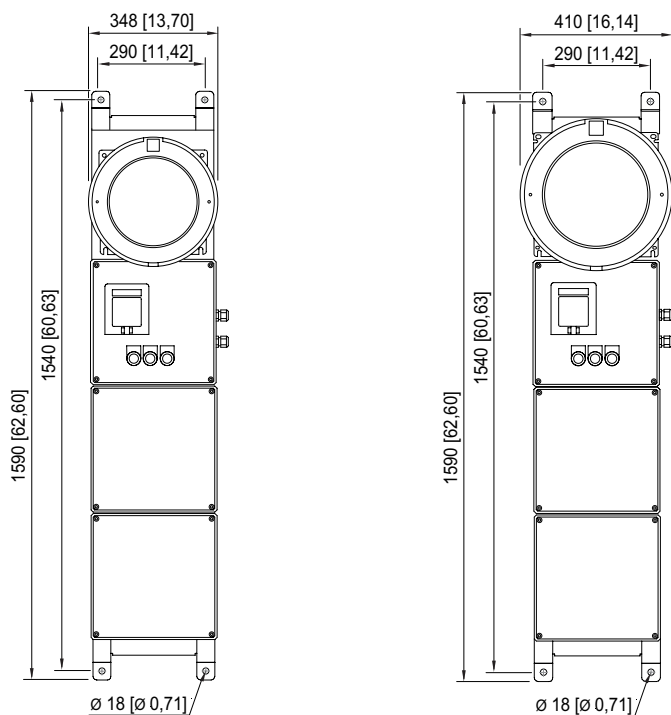
Ambient temperature discharging -20 °C ... +40 °C

Mechanical Data

Degree of protection (IP) IP23

Enclosure material Polyester resin, Glass fibre reinforced
Aluminium, copper-free

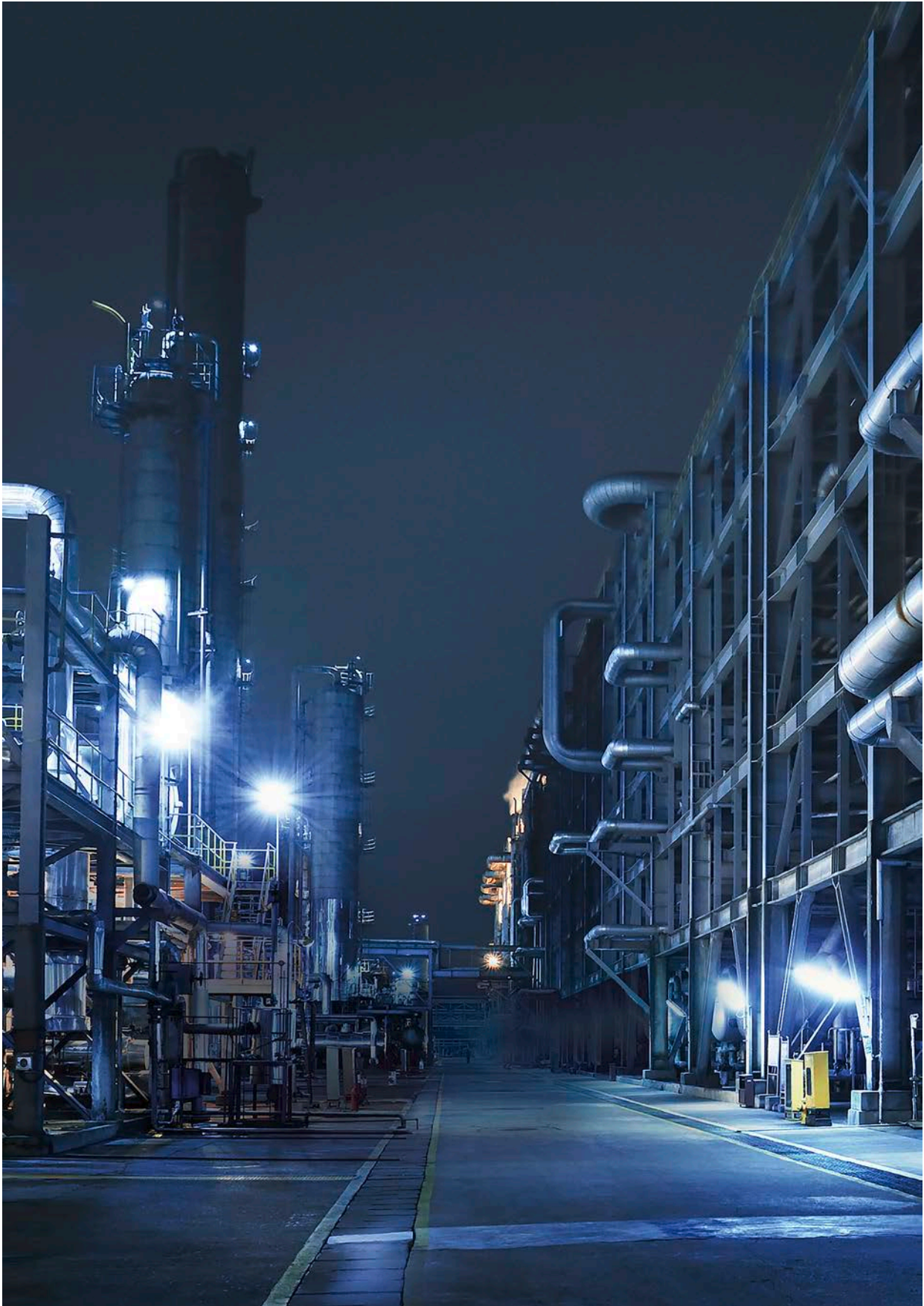
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



up to 200 W

over 200 W

E8



E8



Product	Installation in Zone						Series	Page	WebCode
	0	1	2	20	21	22			
Ex d Technology Flameproof Encapsulation Ex d Enclosures									
Ex d Enclosures made of Light Metal Flameproof Encapsulation		•	•		•	•	8265	803	8265A

For additional products and information please refer to r-stahl.com



- For the operation of sparking and non-sparking equipment in Zone 1 and 2
- 6 basic enclosure sizes, optional inspection windows, direct and indirect cable entry possible
- International permission, large temperature range, seawater-resistant, light metal enclosure

WebCode **8265A**



R. STAHL Series 8265 Ex d enclosures are ideal for motor starters, control boxes and terminal boxes. We equip these with various components, including sparking equipment, according to customer requirements. The cable entry can be direct or indirect. The large cover opening makes commissioning and maintenance easier. Single enclosures are ideal as components in Ex e control panels. Optional, large inspection window.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table						
Cover Closed						
Enclosure size	Width	Height	Length	Art. No.	PS	Weight kg
1	125 mm	132 mm	125 mm	211112▲	13	2.750
2	155 mm	132 mm	155 mm	143409▲	13	3.850
3	195 mm	172 mm	195 mm	143410▲	13	6.580
4	236 mm	227 mm	236 mm	143411▲	13	10.640
5	285 mm	230 mm	285 mm	143412▲	13	18.300
6	335 mm	281 mm	335 mm	143413▲	13	27.800
Cover With inspection window						
Enclosure size	Width	Height	Length	Art. No.	PS	Weight kg
1	125 mm	132 mm	125 mm	211086▲	13	2.770
3	195 mm	172 mm	195 mm	143415▲	13	6.630
4	236 mm	227 mm	236 mm	143416▲	13	11.130
5	285 mm	230 mm	285 mm	143417▲	13	18.750
6	335 mm	281 mm	335 mm	143418▲	13	28.800

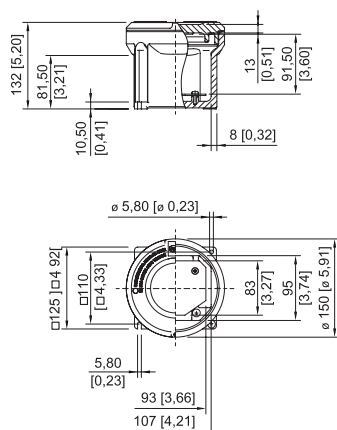
Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection ATEX	Ⓜ II 2 G Ex d IIC Gb

E9

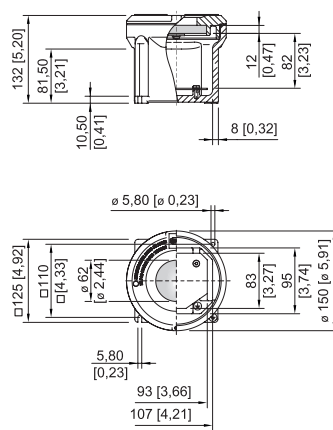
Technical Data

Explosion Protection	
Gas explosion protection EAC	Ex d IIC U Ex de IIC U
Dust explosion protection IECEx	Ex tb IIIC Db
Dust explosion protection ATEX	II 2 D Ex tb IIIC Db
Dust explosion protection EAC	Ex tD A21 IP66
Certificates	ATEX (PTB), Brazil (ULB), EAC (STV), IECEx (PTB), India (PESO)
Electrical Data	
Rated operational voltage max. AC	1000 V
Ambient Conditions	
Ambient temperature	-50 °C ... +60 °C
Mechanical Data	
Degree of protection (IP)	IP54
Note on degree of protection	IP66 with seal (accessories)
Enclosure material	Aluminium, copper-free, Seawater-resistant

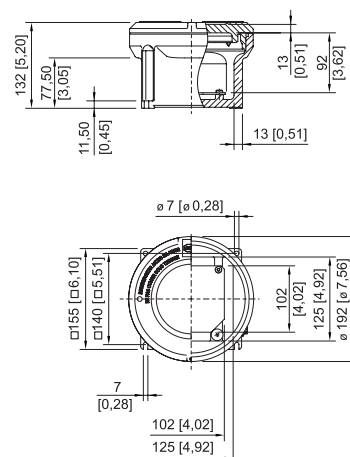
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Enclosure size 1 without inspection window



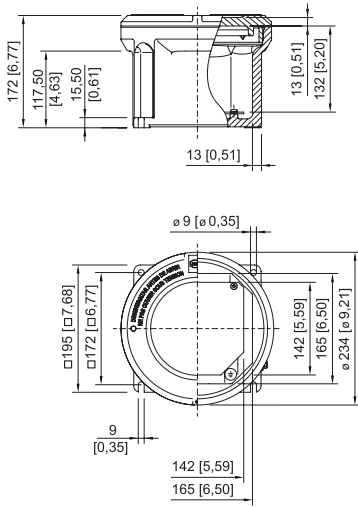
Enclosure size 1 with inspection window



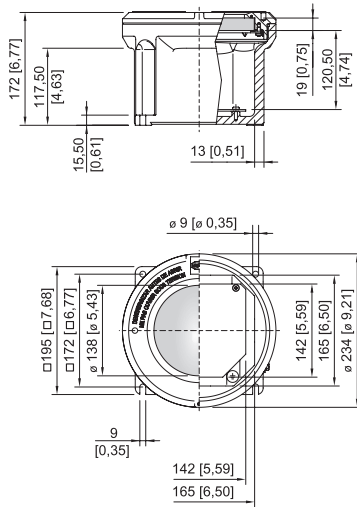
Enclosure size 2 without inspection window

Ex d Enclosures made of Light Metal

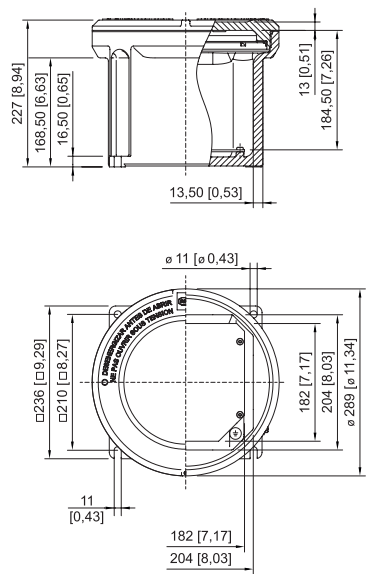
Series 8265 Flameproof Encapsulation



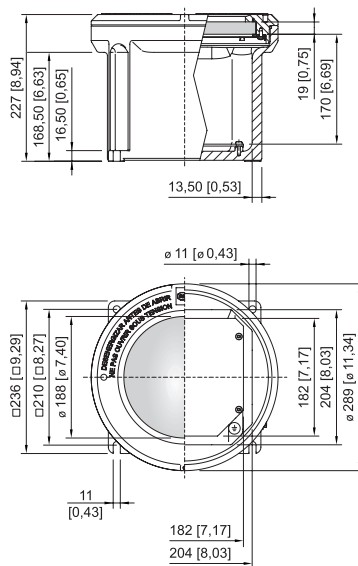
Enclosure size 3 without inspection window



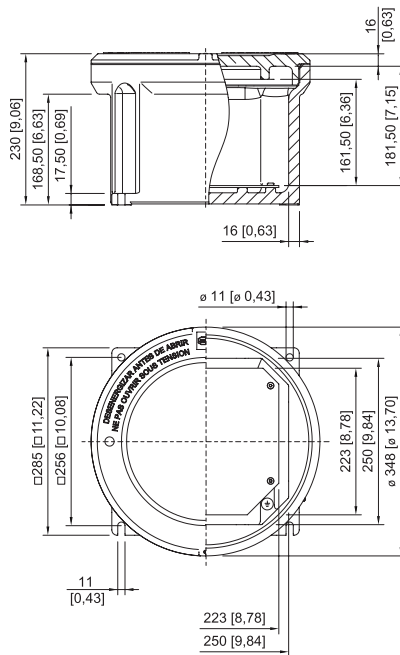
Enclosure size 3 with inspection window



Enclosure size 4 without inspection window

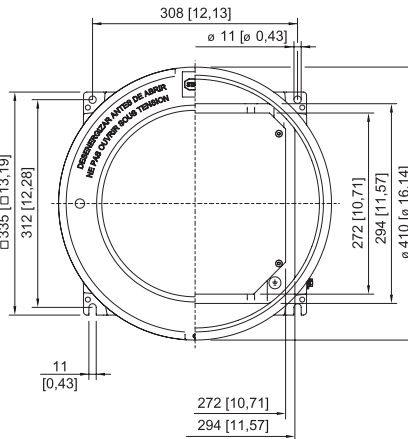
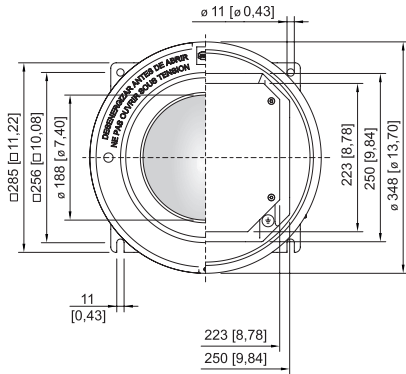
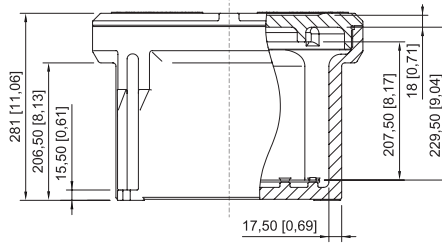
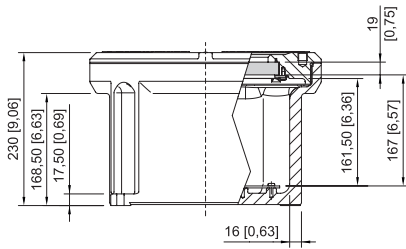


Enclosure size 4 with inspection window



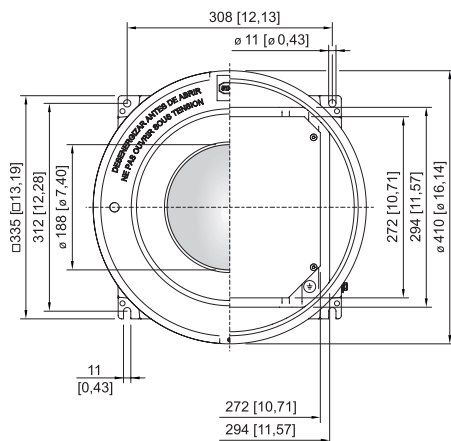
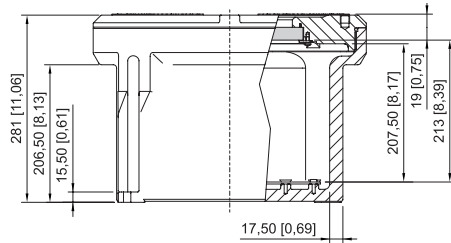
Enclosure size 5 without inspection window

E9



Enclosure size 5 with inspection window

Enclosure size 6 without inspection window



Enclosure size 6 with inspection window

E9

Typical Combinations of Ex d Enclosures 8265 with Connection Chambers 8146

Ex d enclosures	Connection chambers in moulded material	
	connection chamber	via spacer
Size 1	8146/.031	Size 0
	8146/.041	Size 0
Size 2	8146/.031	Size 0
	8146/.041	Size 0
Size 3	8146/.041	Size 1
	8146/.051	Size 1
	8146/.061	Size 1
	8146/.071	Size 1
Size 4	8146/.073	Size 3
	8146/.075	Size 3
	8146/.075	Size 4
	8146/.083	Size 3
	8146/.085	Size 3
	8146/.085	Size 4
	8146/.093	Size 3
	8146/.095	Size 3
	8146/.095	Size 4
Size 5	8146/.073	Size 3
	8146/.075	Size 4
	8146/.083	Size 3
	8146/.085	Size 3
	8146/.093	Size 3
	8146/.095	Size 4
Size 6	8146/.073	Size 2
	8146/.075	Size 2
	8146/.075	Size 4
	8146/.083	Size 2
	8146/.085	Size 2
	8146/.085	Size 4
	8146/.093	Size 2
	8146/.095	Size 2
	8146/.095	Size 4

INSTALLATION EQUIPMENT AND ACCESSORIES



Product	Installation in Zone						Series	Page	WebCode
	0	1	2	20	21	22			
Accessories									
Earth Tags Accessories and Mounting Material for Cable Glands								894	EARTHA
Flat Gaskets Accessories and Mounting Material for Stopping Plugs								895	ACC1K
Ingress Disk Accessories and Mounting Material for Cable Glands								897	SEALB
Locknut made of Metal Accessories and Mounting Material for Cable Glands								892	ACC1B
PVC-Shroud Accessories and Spare Parts for CMP Cable Glands								891	ACC1H
Seal Accessories and Mounting Material for Cable Glands								896	SEALA
Serrated Lock Washer Accessories and Mounting Material for Cable Glands								893	WASHA
Breather									
Breather made of Metal		•	•		•	•	CMP-781	887	781A
Breather made of Moulded Material		•	•		•	•	8162/1	885	8162A
Cable Glands Designed for the North American Market									
Cable Glands Ex e & Ex d & Ex ta for Unarmoured Cable		•	•	•	•	•	TC	861	TCA
Cable Glands Ex e & Ex nR & Ex ta for all Armouring without Lead Sheath		•	•	•	•	•	C2KX	865	C2KXA
Cable Glands Ex e for MC, MC-HL, Interlocked and "Teck" Armoured		•	•	•	•	•	TMC	863	TMCA
Cable Glands Ex e									
Cable Glands		•	•		•	•	8161/7, 8161/8	812	8161B
Cable Glands for all Armouring									
Cable Glands Ex e & Ex d & Ex nR & Ex ta for all Armouring without Lead Sheath		•	•	•	•	•	E1FU	835	E1FUA
Cable Glands Ex e & Ex d & Ex nR & Ex ta for all Armouring without Lead Sheath		•	•	•	•	•	T3CDS	847	T3CDSA
Cable Glands Ex e & Ex d & Ex nR & Ex ta for all Armouring without Lead Sheath, Compound		•	•	•	•	•	PX2K	850	PX2KA
Cable Glands Ex e & Ex d & Ex nR & Ex ta for all Armouring without Lead Sheath, RapidEx		•	•	•	•	•	PX2K REX	853	PX2KB
Cable Glands Ex e & Ex d & Ex nR & Ex ta for all Armouring without Lead Sheath, Stainless Steel		•	•	•	•	•	TE1FU	844	TE1FUA
Cable Glands Ex e & Ex nR & Ex ta for all Armouring without Lead Sheath		•	•	•	•	•	C2K	827	C2KA

Product	Installation in Zone						Series	Page	WebCode
	0	1	2	20	21	22			
Cable Glands for Single Wire / Steel Wire Armoured Cable (SWA)									
Cable Glands Ex e & Ex d & Ex nR & Ex ta for Single Wire / Steel Wire Armoured Cables (SWA)		•	•	•	•	•	E1FW	838	E1FWA
Cable Glands Ex e & Ex ta for Single Wire / Steel Wire Armoured Cables (SWA)		•	•	•	•	•	CWe	830	CWeA
Cable Glands for Unarmoured Cable									
Cable Glands Ex e & Ex d & Ex nR & Ex ta for Unarmoured Cables		•	•	•	•	•	A2F	819	A2FA
Cable Glands Ex e & Ex d & Ex nR & Ex ta for Unarmoured Cables / Flexible Conduit Connection		•	•	•	•	•	A2FFC	822	A2FFCA
Cable Glands Ex e & Ex d & Ex nR & Ex ta for Unarmoured Cables / Rigid Conduit Connection		•	•	•	•	•	A2FRC	825	A2FRCA
Cable Glands Ex e & Ex d & Ex nR & Ex ta for Unarmoured Cable, Compound		•	•	•	•	•	PXSS2K	856	PXSS2KA
Cable Glands Ex e & Ex d & Ex nR & Ex ta for Unarmoured Cable, RapidEx		•	•	•	•	•	PXSS2K REX	858	PXSS2KB
Cable Glands for Wire Braid / Steel Tape Armoured Cable									
Cable Glands Ex e & Ex d & Ex nR & Ex ta for Wire Braid / Steel Tape Armoured Cables		•	•	•	•	•	E1FX	841	E1FXA
Cable Glands Ex e & Ex ta for Wire Braid / Steel Tape Armoured Cables		•	•	•	•	•	CXe	832	CXeA
Cable Glands – Overview									
Cable Glands – Overview								810	
Cable Glands with Strain Relief Ex e									
Cable Glands made of Moulded Material with Strain Relief		•	•		•	•	HSK-K-MZ-Ex	889	HSKA
Reducers, Adaptors, Enlargements									
Adaptors made of Metal		•	•	•	•	•	CMP-737D	873	737DB
Enlargements made of Moulded Material		•	•		•	•		875	ACC1A
Reducers made of Metal		•	•	•	•	•	CMP-737D	870	737DA
Reducers made of Moulded Material		•	•		•	•		868	ACC1L
Stopping Plugs									
Stopping Plugs made of Metal		•	•	•	•	•	CMP-747	879	747DA
Stopping Plugs made of Moulded Material		•	•		•	•	8290	877	8290A
Stopping Plugs with a Hexagon Head made of Metal		•	•	•	•	•	CMP-757	881	757DA
Stopping Plugs with a Truss Head made of Metal		•	•	•	•	•	CMP-767	883	767DA

For additional products and information please refer to r-stahl.com

Selection Criteria

- Type of protection
- Cable diameter
- Cable structure, armouring types
- IP degree of protection
- Entry threads
- Material requirements (plastic / metal)
- Ambient temperature range
- Single and multiple cable glands, special cable shapes

The selection of the cable glands is predefined by the following criteria. The dimensions and the structure of the cable determine the type of cable gland required. The type of protection of the electrical equipment is also an important selection criterion. The cable gland must be selected in accordance with the type of protection of the enclosure. The selection of the cable and the respective cable entry is described in IEC 60079-14. The device's IP degree of protection is affected by the type and the structure of the components. The cable glands from R. STAHL are available in different materials. As a result, suitable materials are available for even extreme environmental conditions. A breather is recommended to prevent the build up of condensation in enclosures.

Cable Glands made of Plastic Ex e



These cable glands are suitable for cable glands in enclosures of the "increased safety" type of protection. The cable gland is suitable for permanently installed cables. An inserted disc is used as dust protection during transport and until installation of the cable. This disc is to be removed for the cable installation or before commissioning the equipment. Unused cable glands must be sealed using suitable plugs. A seal to adjust the entry to different enclosure surfaces is included in delivery.

Cable Glands made of Metal Ex d, Ex e, Ex nR, Ex ta



The cable glands from CMP are suitable for the direct entry of cables into enclosures of the "flameproof" type of protection and for the indirect entry of cables into "increased safety" enclosures. There are versions that can be used with metal-reinforced cables and electric lines. In addition to the standard sealing of the cable sheath, secure armouring clamping is important to ensure reliable contact. For enclosures of the "increased safety" type of protection, unused cable glands can be sealed using suitable sealing discs. For sealing to the enclosure wall, corresponding seals are to be ordered separately.

Cable Glands with Strain Relief made of Plastic and Metal + Breather



For cables and electric lines that are not permanently installed, additional strain relief must be attached on the cable. The HSK series in plastic or the A2F100 in nickel-plated brass is used for this purpose.



The 8162 series and CMP-781 series breathers provide continuous pressure equalisation between the inside of the enclosure and the atmosphere around the enclosure. This prevents moisture from entering the enclosure via the seals and condensing inside the enclosure.

Stopping Plugs Ex e made of Plastic and Ex d, Ex e, Ex ta made of Metal



The stopping plugs in the 8290 series are suitable for sealing unused holes in the enclosures that have the "increased safety" type of protection. They are designed to be impact resistant and have the required self-loosening protection.



The stopping plugs made of metal can be used to seal holes that have the Ex d, Ex e and Ex type of protection. Due to the fact that pressure-resistant enclosures cannot be drilled into easily, the use of stopping plugs enables future-proof installation, which also permits subsequent additions.

Selection Table

The most important selection criteria are listed in the following selection tables.
The selection is made according to the current standard based on the IEC/EN 60079-1.
The cable structure is also taken into account in the table. So you can quickly and easily find the right cable gland.

Selection guide: cable glands Ex e versions

Type of protection	Armouring	Material	Strain relief	Type
Ex e	unarmoured	Plastic	with	HSK
			without	8161
		Nickel - plated brass	with	A2F100
			without	TC
	all armouring without lead sheath	Nickel - plated brass	without	A2F
				C2KX
				C2K
				CWe
		Nickel - plated brass with double seal	CXe	
			TMC	
			T3CDS	
			E1FU	
	all armouring without lead sheath	Nickel - plated brass	with double seal	E1FW
				E1FX
Stainless steel with double seal		with double seal	TE1FU	

Favourable alternative!
8161 with inner PE rail for installing the armouring

Selection guide: cable glands Ex d versions

Type of protection	Armouring	Material	Compound	Type
Ex d	unarmoured	Nickel - plated brass	Compound	PXSS2K
			RapidEx	PXSS2KREx
			Compound	PXS2K
			RapidEx	PXS2KREx
	all armouring without lead sheath	Nickel - plated brass / stainless steel	no	TC
				A2F
				A2FRC
		Nickel - plated brass		A2FFC
				T2CDS
				E1FU
				E1FW
all armouring without lead sheath	Nickel - plated brass with double seal	E1FX		
		TE1FU		

Selection guide: cable glands Ex nR versions

Type of protection	Armouring	Material	Compound	Type
Ex nR	unarmoured	Plastic		HSK
				8161
		Nickel - plated brass		A2F100
				A2F
	all armouring without lead sheath	Nickel - plated brass	C2K	
			C2KX	
			CWe	
			CXe	
		Nickel - plated brass with double seal	T3CDS	
			E1FU	
			E1FW	
			E1FX	
	all armouring without lead sheath	Stainless steel with double seal	no	TE1FU
				A2FRC
				A2FFC
				PXSS2K
Nickel - plated brass		PXSS2KREx		
		PX2K		
		PX2KREx		



- For safe cable entry in Ex e and Ex i areas
- Can be used at temperatures of between -60 ... +75 °C, degree of protection IP68
- Available in Ex e and Ex i versions (Ex i version distinguished by its blue cap nut)
- Suitable for cable diameters from 1 ... 48 mm
- Versions with multi-seal inserts

WebCode **8161B**



R. STAHL's 8161/7 and 8161/8 series cable entries can be used to safely run cables into Ex e enclosures. They are suitable for cables between 1 and 48 mm in diameter. They are available for Ex e and Ex i circuits – the Ex i version can be distinguished by its blue cap nut. An integrated stopping plug can be used to seal any cable entries that are not being used.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Product Description		Cable gland For low temperature						
Variant	Ex version	Standard thread						
Colour		Ex e						
		Black						
Thread size	Clamping range	Width across flats	Width across corners	Lot size	Product Type	Art. No.	PS	Weight kg
M16	5 – 9 mm	20 mm	22 mm	50	8161/7-M16-0905-LT	239203 ▲	10	0.009
M20	7 – 13 mm	24 mm	27 mm	50	8161/7-M20-1307-LT	239204 ▲	10	0.013
M25	10 – 17 mm	29 mm	32 mm	50	8161/7-M25-1710-LT	239205 ▲	10	0.019
M32	13 – 21 mm	36 mm	40 mm	25	8161/7-M32-2113-LT	239206 ▲	10	0.032
M40	17 – 28 mm	46 mm	51 mm	10	8161/7-M40-2817-LT	239207 ▲	10	0.068
M50	23 – 35 mm	55 mm	61 mm	4	8161/7-M50-3523-LT	239208 ▲	10	0.107
M63	34 – 48 mm	68 mm	75 mm	1	8161/7-M63-4834-LT	239209 ▲	10	0.155
Product Description		Cable gland For low temperature						
Variant	Ex version	Standard thread						
Colour		Ex i						
		Blue						
Thread size	Clamping range	Width across flats	Width across corners	Lot size	Product Type	Art. No.	PS	Weight kg
M16	5 – 9 mm	20 mm	22 mm	50	8161/8-M16-0905-LT	239211 ▲	10	0.009
M20	7 – 13 mm	24 mm	27 mm	50	8161/8-M20-1307-LT	239212 ▲	10	0.013
M25	10 – 17 mm	29 mm	32 mm	50	8161/8-M25-1710-LT	239213 ▲	10	0.019
M32	13 – 21 mm	36 mm	40 mm	25	8161/8-M32-2113-LT	239214 ▲	10	0.032
M40	17 – 28 mm	46 mm	51 mm	10	8161/8-M40-2817-LT	239215 ▲	10	0.068

E10

Selection Table								
Product Description Variant Ex version Colour		Cable gland Without reduction sealing insert Standard thread Ex e Black						
Thread size	Clamping range	Width across flats	Width across corners	Lot size	Product Type	Art. No.	PS	Weight kg
M12	3 – 6 mm	16 mm	18 mm	50	8161/7-M12-0603	239170 ▲	10	0.007
M16	5 – 9 mm	20 mm	22 mm	50	8161/7-M16-0905	239171 ▲	10	0.009
M20	7 – 13 mm	24 mm	27 mm	50	8161/7-M20-1307	239172 ▲	10	0.013
M25	10 – 17 mm	29 mm	32 mm	50	8161/7-M25-1710	239173 ▲	10	0.019
M32	13 – 21 mm	36 mm	40 mm	25	8161/7-M32-2113	239174 ▲	10	0.032
M40	17 – 28 mm	46 mm	51 mm	10	8161/7-M40-2817	239175 ▲	10	0.068
M50	23 – 35 mm	55 mm	61 mm	4	8161/7-M50-3523	239176 ▲	10	0.107
M63	34 – 48 mm	68 mm	75 mm	1	8161/7-M63-4834	239177 ▲	10	0.155
Product Description Variant Ex version Colour		Cable gland Without reduction sealing insert Standard thread Ex i Blue						
Thread size	Clamping range	Width across flats	Width across corners	Lot size	Product Type	Art. No.	PS	Weight kg
M12	3 – 6 mm	16 mm	18 mm	50	8161/8-M12-0603	239178 ▲	10	0.007
M16	5 – 9 mm	20 mm	22 mm	50	8161/8-M16-0905	239179 ▲	10	0.009
M20	7 – 13 mm	24 mm	27 mm	50	8161/8-M20-1307	239180 ▲	10	0.013
M25	10 – 17 mm	29 mm	32 mm	50	8161/8-M25-1710	239181 ▲	10	0.019
M32	13 – 21 mm	36 mm	40 mm	25	8161/8-M32-2113	239182 ▲	10	0.032
M40	17 – 28 mm	46 mm	51 mm	10	8161/8-M40-2817	239183 ▲	10	0.068
M50	23 – 35 mm	55 mm	61 mm	4	8161/8-M50-3523	239184 ▲	10	0.107
M63	34 – 48 mm	68 mm	75 mm	1	8161/8-M63-4834	239185 ▲	10	0.155
Product Description Variant Ex version Colour		Cable gland With reduction sealing insert Long thread Ex e Black						
Thread size	Clamping range	Width across flats	Width across corners	Lot size	Product Type	Art. No.	PS	Weight kg
M12	1 – 6 mm	16 mm	18 mm	50	8161/7-M12-0601-L	239186 ▲	10	0.007
M16	2 – 9 mm	20 mm	22 mm	50	8161/7-M16-0902-L	239187 ▲	10	0.009
M20	4 – 13 mm	24 mm	27 mm	50	8161/7-M20-1304-L	239188 ▲	10	0.013
M25	7 – 17 mm	29 mm	32 mm	50	8161/7-M25-1707-L	239189 ▲	10	0.019
M32	9 – 21 mm	36 mm	40 mm	25	8161/7-M32-2109-L	239190 ▲	10	0.032
M40	12 – 28 mm	46 mm	51 mm	10	8161/7-M40-2812-L	239191 ▲	10	0.068
M50	16 – 35 mm	55 mm	61 mm	4	8161/7-M50-3516-L	239192 ▲	10	0.107
M63	28 – 48 mm	68 mm	75 mm	1	8161/7-M63-4828-L	239193 ▲	10	0.155
Product Description Variant Ex version Colour		Cable gland With reduction sealing insert Long thread Ex i Blue						
Thread size	Clamping range	Width across flats	Width across corners	Lot size	Product Type	Art. No.	PS	Weight kg
M12	1 – 6 mm	16 mm	18 mm	50	8161/8-M12-0601-L	239194 ▲	10	0.007
M16	2 – 9 mm	20 mm	22 mm	50	8161/8-M16-0902-L	239195 ▲	10	0.009
M20	4 – 13 mm	24 mm	27 mm	50	8161/8-M20-1304-L	239196 ▲	10	0.013
M25	7 – 17 mm	29 mm	32 mm	50	8161/8-M25-1707-L	239197 ▲	10	0.019

Selection Table

Product Description Variant Ex version Colour		Cable gland With reduction sealing insert Long thread Ex i Blue						
Thread size	Clamping range	Width across flats	Width across corners	Lot size	Product Type	Art. No.	PS	Weight kg
M32	9 – 21 mm	36 mm	40 mm	25	8161/8-M32-2109-L	239198 ▲	10	0.032
M40	12 – 28 mm	46 mm	51 mm	10	8161/8-M40-2812-L	239199 ▲	10	0.068
M63	28 – 48 mm	68 mm	75 mm	1	8161/8-M63-4828-L	239201 ▲	10	0.155
Product Description Variant Ex version Colour		Cable gland With reduction sealing insert Standard thread Ex e Black						
Thread size	Clamping range	Width across flats	Width across corners	Lot size	Product Type	Art. No.	PS	Weight kg
M12	1 – 6 mm	16 mm	18 mm	50	8161/7-M12-0601	239154 ▲	10	0.007
M16	2 – 9 mm	20 mm	22 mm	50	8161/7-M16-0902	239155 ▲	10	0.009
M20	4 – 13 mm	24 mm	27 mm	50	8161/7-M20-1304	239156 ▲	10	0.013
M25	7 – 17 mm	29 mm	32 mm	50	8161/7-M25-1707	239157 ▲	10	0.019
M32	9 – 21 mm	36 mm	40 mm	25	8161/7-M32-2109	239158 ▲	10	0.032
M40	12 – 28 mm	46 mm	51 mm	10	8161/7-M40-2812	239159 ▲	10	0.068
M50	16 – 35 mm	55 mm	61 mm	4	8161/7-M50-3516	239160 ▲	10	0.107
M63	28 – 48 mm	68 mm	75 mm	1	8161/7-M63-4828	239161 ▲	10	0.155
Product Description Variant Ex version Colour		Cable gland With reduction sealing insert Standard thread Ex i Blue						
Thread size	Clamping range	Width across flats	Width across corners	Lot size	Product Type	Art. No.	PS	Weight kg
M12	1 – 6 mm	16 mm	18 mm	50	8161/8-M12-0601	239162 ▲	10	0.007
M16	2 – 9 mm	20 mm	22 mm	50	8161/8-M16-0902	239163 ▲	10	0.009
M20	4 – 13 mm	24 mm	27 mm	50	8161/8-M20-1304	239164 ▲	10	0.013
M25	7 – 17 mm	29 mm	32 mm	50	8161/8-M25-1707	239165 ▲	10	0.019
M32	9 – 21 mm	36 mm	40 mm	25	8161/8-M32-2109	239166 ▲	10	0.032
M40	12 – 28 mm	46 mm	51 mm	10	8161/8-M40-2812	239167 ▲	10	0.068
M50	16 – 35 mm	55 mm	61 mm	4	8161/8-M50-3516	239168 ▲	10	0.107
M63	28 – 48 mm	68 mm	75 mm	1	8161/8-M63-4828	239169 ▲	10	0.155

Purchase order quantity in [pieces], the delivery quantity is automatically rounded to the lot size.

Technical Data

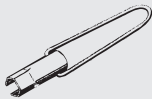


Explosion Protection

Gas explosion protection IECEx	Ex eb IIC Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex eb IIC Gb
Gas explosion protection EAC	1 Ex e II Gb X
Dust explosion protection IECEx	Ex tb IIIC Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC Db
Dust explosion protection EAC	Ex tb IIIC Db X
Certificates	ATEX (PTB), Brazil (ULB), EAC (LPE), IECEx (PTB), Korea (KGS)

Ambient Conditions

Use at the height of	< 2000 m
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Technical Data	
Mechanical Data	
Material	Polyamide
Halogen-free	Yes
Self-extinguishing	Yes
Flame retardant	Yes
Surface resistance	$\leq 10^{13} \Omega$
Degree of protection (IP)	IP66
Type of protection note	IP68 at 5 bar 30 min. (IP protection according to IEC/EN 60529)

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Special key			
	Thread size: M16 Packaging unit: 1	114207 ▲	0.120
	Thread size: M20 Packaging unit: 1	114208 ▲	0.132
	Thread size: M25 Packaging unit: 1	114205 ▲	0.163
	Thread size: M32 Packaging unit: 1	114209 ▲	0.237
	Thread size: M40 Packaging unit: 1	114210 ▲	0.274
Locknut, brass nickel-plated (-60 ... +75 °C) To fasten the cable glands in through holes			
	Material: Nickel-plated brass Thread size: M12 Lot size: 100	241518 ▲	0.220
	Material: Nickel-plated brass Thread size: M16 Lot size: 100	241519 ▲	0.290
	Material: Nickel-plated brass Thread size: M20 Lot size: 100	241520 ▲	0.480
	Material: Nickel-plated brass Thread size: M25 Lot size: 100	241561 ▲	0.720
	Material: Nickel-plated brass Thread size: M32 Lot size: 50	241562 ▲	0.545
	Material: Nickel-plated brass Thread size: M40 Lot size: 50	241563 ▲	1.030
	Material: Nickel-plated brass Thread size: M50 Lot size: 25	241564 ▲	0.680
Material: Nickel-plated brass Thread size: M63 Lot size: 10	241565 ▲	0.499	
Locknut, plastic (-40 ... +75 °C) To fasten the cable glands in through holes			
	Material: Polyamide Thread size: M12 Lot size: 100	239460	0.001
	Material: Polyamide Thread size: M16 Lot size: 100	239461	0.002
	Material: Polyamide Thread size: M20 Lot size: 100	239462	0.002
	Material: Polyamide Thread size: M25 Lot size: 100	239463	0.003
	Material: Polyamide Thread size: M40 Lot size: 50	239465	0.007
	Material: Polyamide Thread size: M50 Lot size: 25	239466	0.012
	Material: Polyamide Thread size: M63 Lot size: 10	239467	0.018

Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg	
Plug (-60 ... +75 °C) For closing unused cable glands				
	Thread size with reduction sealing insert: M12 Diameter: 3 mm Material: Polyamide	Lot size: 50	240044	0.001
	Thread size without reduction sealing insert: M12 Thread size with reduction sealing insert: M16 Diameter: 6 mm Material: Polyamide	Lot size: 50	240046	0.001
	Thread size without reduction sealing insert: M16 Thread size with reduction sealing insert: M20 Diameter: 8 mm Material: Polyamide	Lot size: 50	240048	0.001
	Thread size without reduction sealing insert: M20 Thread size with reduction sealing insert: M25 Diameter: 12 mm Material: Polyamide	Lot size: 50	240049	0.002
	Thread size without reduction sealing insert: M25 Diameter: 17 mm Material: Polyamide	Lot size: 50	240056	0.003
	Thread size with reduction sealing insert: M32 Diameter: 14 mm Material: Polyamide	Lot size: 50	240050	0.003
	Thread size without reduction sealing insert: M32 Thread size with reduction sealing insert: M40 Diameter: 20 mm Material: Polyamide	Lot size: 25	240057	0.004
	Thread size without reduction sealing insert: M40 Diameter: 28 mm Material: Polyamide	Lot size: 25	240059	0.009
	Thread size with reduction sealing insert: M50 Diameter: 25 mm Material: Polyamide	Lot size: 25	240058	0.007
	Thread size without reduction sealing insert: M50 Thread size with reduction sealing insert: M63 Diameter: 35 mm Material: Polyamide	Lot size: 10	240060	0.010
	Thread size without reduction sealing insert: M63 Diameter: 48 mm Material: Polyamide	Lot size: 10	240062	0.028

Accessories and Spare Parts

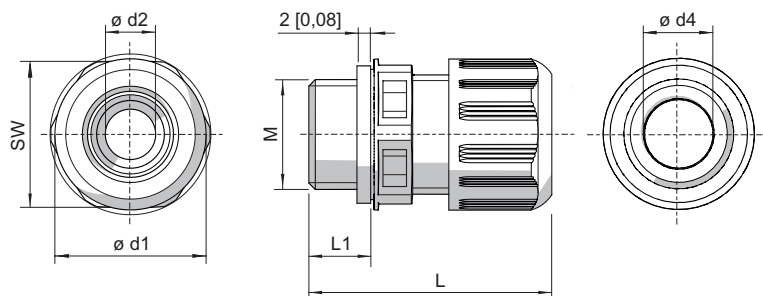
Figure	Description		Art. No.	Weight kg
Flat gasket (standard), EPDM (-40 ... +75 °C)				
Replacement seals for cable glands				
	For cable glands 8161/-M12-06... Connection thread: M12 x 1,5	Lot size: 50	240244	0.001
	For cable glands 8161/-M12-06... Connection thread: M12 x 1,5	Lot size: 100	240245	0.001
	For cable glands 8161/-M16-09... Connection thread: M16	Lot size: 50	222363	0.001
	For cable glands 8161/-M16-09.. Connection thread: M16	Lot size: 100	222370	0.001
	For cable glands 8161/-M20-13 Connection thread: M20	Lot size: 50	222364	0.001
	For cable glands 8161/-M20-13 Connection thread: M20	Lot size: 100	222371	0.001
	For cable glands 8161/-M25-17 Connection thread: M25	Lot size: 50	222365	0.001
	For cable glands 8161/-M25-17 Connection thread: M25	Lot size: 100	222372	0.001
	For cable glands 8161/-M32-21 Connection thread: M32	Lot size: 50	222366	0.001
	For cable glands 8161/-M32-21 Connection thread: M32	Lot size: 100	222373	0.001
	For cable glands 8161/-M40-28 Connection thread: M40	Lot size: 50	222367	0.002
	For cable glands 8161/-M40-28 Connection thread: M40	Lot size: 100	222374	0.002
	For cable glands 8161/-M50-35 Connection thread: M50	Lot size: 50	222368	0.002
	For cable glands 8161/-M50-35 Connection thread: M50	Lot size: 100	222375	0.002
	For cable glands 8161/-M63-48 Connection thread: M63	Lot size: 100	222376	0.002
For cable glands 8161/-M63-48 Connection thread: M63	Lot size: 50	222369	0.002	
Flat gasket silicone (-60 ... +75 °C)				
Replacement seals for low temperature				
	For cable glands 8161/-M16-09.. Connection thread: M16	Lot size: 100	240248	0.001
	For cable glands 8161/-M20-13 Connection thread: M20	Lot size: 100	240249	0.001
	For cable glands 8161/-M25-17 Connection thread: M25	Lot size: 100	240250	0.001
	For cable glands 8161/-M32-21 Connection thread: M32	Lot size: 100	240251	0.001
	For cable glands 8161/-M40-28 Connection thread: M40	Lot size: 100	240252	0.002
	For cable glands 8161/-M50-35 Connection thread: M50	Lot size: 100	240253	0.002
	For cable glands 8161/-M63-48 Connection thread: M63	Lot size: 100	240254	0.002

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Accessories and Spare Parts

Figure	Description		Art. No.	Weight kg
Reduction sealing insert (standard), EPDM (-40 ... +75 °C)				
For cable glands				
	Connection thread: M16 x 1,5 Clamping range: 2 - 6 mm	Lot size: 50	239445	0.001
	Connection thread: M20 x 1,5 Clamping range: 4 - 8 mm	Lot size: 50	239446	0.001
	Connection thread: M25 x 1,5 Clamping range: 7 - 12 mm	Lot size: 50	239447	0.003
	Connection thread: M32 x 1,5 Clamping range: 9 - 14 mm	Lot size: 50	239448	0.003
	Connection thread: M40 x 1,5 Clamping range: 12 - 20 mm	Lot size: 50	239449	0.007
Reduction sealing insert, silicone (-60 ... +75 °C)				
For low temperature				
	Connection thread: M16 x 1,5 Clamping range: 2 - 6 mm	Lot size: 50	239453	0.001
	Connection thread: M20 x 1,5 Clamping range: 4 - 8 mm	Lot size: 50	239454	0.001
	Connection thread: M25 x 1,5 Clamping range: 7 - 12 mm	Lot size: 50	239455	0.002
	Connection thread: M32 x 1,5 Clamping range: 9 - 14 mm	Lot size: 50	239456	0.003
	Connection thread: M40 x 1,5 Clamping range: 12 - 20 mm	Lot size: 50	239457	0.008
	Connection thread: M50 x 1,5 Clamping range: 16 - 25 mm	Lot size: 50	239458	0.015

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



M = Thread size SW = Width across flats
L1 = Thread length L = Dimension L

Cable glands without bend protection

Thread size	Width across flats	Dimension L	Dimension L (with long thread)	Thread length	Thread length (long thread)	Clamping range	Clamping range + reduction sealing insert	Dimension d1	Dimension d2	Dimension d4
M12	16,00 mm	29 ... 34 mm	35 ... 40 mm	9.000 mm	15.000 mm	3.00 - 6.00 mm	1.00 - 6.00 mm	18 mm	7.3 mm	6.3 mm
M16	20.00 mm	31 ... 37 mm	37 ... 43 mm	9.000 mm	15.000 mm	5.00 - 9.00 mm	2.00 - 9.00 mm	22 mm	10.3 mm	9.3 mm
M20	24.00 mm	36 ... 43 mm	41 ... 48 mm	10.000 mm	15.000 mm	7.00 - 13.00 mm	4.00 - 13.00 mm	27 mm	13.3 mm	13.3 mm
M25	29.00 mm	38 ... 46 mm	43 ... 51 mm	10.000 mm	15.000 mm	10.00 - 17.00 mm	7.00 - 17.00 mm	32 mm	17.3 mm	17.3 mm
M32	36.00 mm	42 ... 50 mm	45 ... 53 mm	12.000 mm	15.000 mm	13.00 - 21.00 mm	9.00 - 21.00 mm	40 mm	21.3 mm	21.3 mm
M40	46.00 mm	52 ... 65 mm	58 ... 71 mm	12.000 mm	18.000 mm	17.00 - 28.00 mm	12.00 - 28.00 mm	51 mm	28.3 mm	30 mm
M50	55.00 mm	59 ... 72 mm	63 ... 76 mm	14.000 mm	18.000 mm	23.00 - 35.00 mm	16.00 - 35.00 mm	61 mm	35.3 mm	40 mm
M63	68.00 mm	64 ... 78 mm	67 ... 81 mm	15.000 mm	18.000 mm	34.00 - 48.00 mm	28.00 - 48.00 mm	75 mm	48.3 mm	53 mm

E10



- Ex d and Ex e cable entry for unarmoured cables and cables with wire-braid armouring
- More safety: sealing of the outer cable sheath, flood seal, designed to prevent cold flow
- Worldwide certification in accordance with IECEx, ATEX and CSA

WebCode **A2FA**



A2F series metal Ex d and Ex e cable entries are designed for unarmoured cables and cables with wire-braid armouring. The flood seal with integral protection and sealing for the outer cable sheath provided by an explosion-protected displacement seal ensure added safety. And because they are designed to prevent cold flow, safety is improved even further. They have worldwide certification according to IECEx, ATEX and CSA.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table									
Thread standard		metric							
Material		Nickel-plated brass							
Gland size	Thread size	Inner sheath	Width across flats	Width across corners	Protrusion length	PVC-shroud	Art. No.	PS	Weight kg
20	M20	6.5 ... 14 mm	27 mm	29.7 mm	27.2 mm	PVC05	243464	10	0.070
20s	M20	6.1 ... 11.7 mm	24 mm	26.4 mm	25.1 mm	PVC04	243463	10	0.060
20s/16	M20	3.2 ... 8.7 mm	24 mm	26.4 mm	25.1 mm	PVC04	243462	10	0.070
25	M25	11.1 ... 20 mm	36 mm	39.6 mm	35.5 mm	PVC09	107642	10	0.130
32	M32	17 ... 26.3 mm	41 mm	45.1 mm	34.2 mm	PVC10	243465	10	0.150
40	M40	23.5 ... 32.2 mm	50 mm	55 mm	35.1 mm	PVC13	107730	10	0.200
50	M50	35.6 ... 44 mm	55 mm	66 mm	36.3 mm	PVC18	107801	10	0.270
50s	M50	31 ... 38.2 mm	60 mm	60.5 mm	32 mm	PVC15	107767	10	0.260
63	M63	47.2 ... 55.9 mm	75 mm	82.5 mm	35.8 mm	PVC23	243467	10	0.400
63s	M63	41.5 ... 49.9 mm	70.5 mm	77.6 mm	33.5 mm	PVC21	243466	10	0.430
75	M75	61.1 ... 67.9 mm	84 mm	92.4 mm	40.6 mm	PVC26	109035	10	0.500
75s	M75	54 ... 61.9 mm	80 mm	88 mm	34.2 mm	PVC24	107895	10	0.520
Thread standard		metric							
Material		Stainless steel							
Gland size	Thread size	Inner sheath	Width across flats	Width across corners	Protrusion length	PVC-shroud	Art. No.	PS	Weight kg
20	M20	6.5 ... 14 mm	27 mm	29.7 mm	27.2 mm	PVC05	221749	10	0.070
20s	M20	6.1 ... 11.7 mm	24 mm	26.4 mm	25.1 mm	PVC04	168142	10	0.060

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Selection Table

Thread standard Material		metric Stainless steel							Art. No.	PS	Weight kg
Gland size	Thread size	Inner sheath	Width across flats	Width across corners	Protrusion length	PVC-shroud					
20s/16	M20	3.2 ... 8.7 mm	24 mm	26.4 mm	25.1 mm	PVC04	107538	10	0.070		
25	M25	11.1 ... 20 mm	36 mm	39.6 mm	35.5 mm	PVC09	243468	10	0.123		
32	M32	17 ... 26.3 mm	41 mm	45.1 mm	34.2 mm	PVC10	168145	10	0.150		
40	M40	23.5 ... 32.2 mm	50 mm	55 mm	35.1 mm	PVC13	168146	10	0.200		
50	M50	35.6 ... 44 mm	60 mm	66 mm	36.3 mm	PVC18	168148	10	0.270		
50s	M50	31 ... 38.2 mm	55 mm	60.5 mm	32 mm	PVC15	243469	10	0.246		
63	M63	47.2 ... 55.9 mm	75 mm	82.5 mm	35.8 mm	PVC23	243481	10	0.378		
63s	M63	41.5 ... 49.9 mm	70.5 mm	77.6 mm	33.5 mm	PVC21	243470	10	0.406		
75	M75	61.1 ... 67.9 mm	84 mm	92.4 mm	40.6 mm	PVC26	246269	10	0.472		
75s	M75	54 ... 61.9 mm	80 mm	88 mm	34.2 mm	PVC24	246268	10	0.491		
Thread standard Material		NPT Nickel-plated brass							Art. No.	PS	Weight kg
Gland size	Thread size	Inner sheath	Width across flats	Width across corners	Protrusion length	PVC-shroud					
20	NPT1/2	6.5 ... 14 mm	27 mm	29.7 mm	27.2 mm	PVC05	246228	10	0.070		
20s	NPT1/2	6.1 ... 11.7 mm	24 mm	26.4 mm	25.1 mm	PVC04	246227	10	0.060		
20s/16	NPT1/2	3.2 ... 8.7 mm	24 mm	26.4 mm	25.1 mm	PVC04	246226	10	0.070		
25	NPT3/4	11.1 ... 20 mm	36 mm	39.6 mm	35.5 mm	PVC09	246229	10	0.130		
32	NPT1	17 ... 26.3 mm	41 mm	45.1 mm	34.2 mm	PVC10	246230	10	0.150		
40	NPT1-1/4	23.5 ... 32.2 mm	50 mm	55 mm	35.1 mm	PVC13	246261	10	0.200		
50	NPT2	35.6 ... 44 mm	60 mm	66 mm	36.3 mm	PVC18	246263	10	0.270		
50s	NPT1-1/2	31 ... 38.2 mm	55 mm	60.5 mm	32 mm	PVC15	246262	10	0.260		
63	NPT2-1/2	47.2 ... 55.9 mm	75 mm	82.5 mm	35.8 mm	PVC23	246265	10	0.400		
63s	NPT2	41.5 ... 49.9 mm	70.5 mm	77.6 mm	33.5 mm	PVC21	246264	10	0.430		
Thread standard Material		NPT Stainless steel							Art. No.	PS	Weight kg
Gland size	Thread size	Inner sheath	Width across flats	Width across corners	Protrusion length	PVC-shroud					
20	NPT1/2	6.5 ... 14 mm	27 mm	29.7 mm	27.2 mm	PVC05	246272	10	0.066		
20s	NPT1/2	6.1 ... 11.7 mm	24 mm	26.4 mm	25.1 mm	PVC04	246271	10	0.057		
20s/16	NPT1/2	3.2 ... 8.7 mm	24 mm	26.4 mm	25.1 mm	PVC04	246270	10	0.066		
25	NPT3/4	11.1 ... 20 mm	36 mm	39.6 mm	35.5 mm	PVC09	246273	10	0.123		
32	NPT1	17 ... 26.3 mm	41 mm	45.1 mm	34.2 mm	PVC10	246274	10	0.142		
40	NPT1-1/4	23.5 ... 32.2 mm	50 mm	55 mm	35.1 mm	PVC13	246275	10	0.189		
50	NPT2	35.6 ... 44 mm	60 mm	66 mm	36.3 mm	PVC18	246277	10	0.255		
50s	NPT1-1/2	31 ... 38.2 mm	55 mm	60.5 mm	32 mm	PVC15	246276	10	0.246		
63	NPT2-1/2	47.2 ... 55.9 mm	75 mm	82.5 mm	35.8 mm	PVC23	246279	10	0.378		
63s	NPT2	41.5 ... 49.9 mm	70.5 mm	77.6 mm	33.5 mm	PVC21	246278	10	0.406		

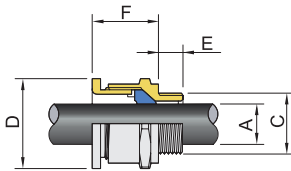
Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection IECEx 2	Ex e IIC Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex d IIC Gb

Technical Data	
Explosion Protection	
Gas explosion protection ATEX 2	⊕ II 2 G Ex e IIC Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X 2 Ex nR IIC Gc X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	⊕ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Firedamp protection IECEx	Ex d I Mb
Firedamp protection IECEx 2	Ex e I Mb
Firedamp protection ATEX	⊕ I M2 Ex d I Mb
Firedamp protection ATEX 2	⊕ I M2 Ex e I Mb
Restricted breathing IECEx	Ex nR IIC Gc
Restricted breathing ATEX	⊕ II 3 G Ex nR IIC Gc
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)
Electrical Data	
Ex version	Ex e & Ex d & Ex nR & Ex ta
Ambient Conditions	
Ambient temperature	-60 °C ... +130 °C
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP
Sealing material	SOLO LSF
Construction type	BS 6121, IEC/EN 62444

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = Inner sheath C = Thread size
 D = Width across corners D = Width across flats
 E = Thread length F = Protrusion length



- Ex d and Ex e cable entry for all unarmoured cables and cables with wire-braid armouring in flexible and rigid conduits
- Sealing for the outer cable sheath provided by an explosion-protected displacement seal
- Worldwide certification in accordance with IECEx, ATEX and CSA

WebCode **A2FFCA**



A2FFC series metal Ex d and Ex e cable entries are designed for all types of unarmoured cables and cables with wire-braid armouring that are run through flexible or rigid conduits, including those with a rubber coating. A thread adaptor is also required for connecting to rigid conduits. The cable entries are designed to prevent cold flow.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

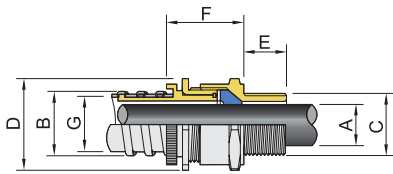
Selection Table										
Thread standard		metric								
Gland size	Thread size	Inner sheath	Inner conduit diameter max.	Outer conduit diameter max.	Width across flats	Width across corners	Protrusion length	Art. No.	PS	Weight kg
20	M20	6.5 ... 13.1 mm	15.6 mm	21.6 mm	27 mm	29.7 mm	35.4 mm	243605	10	0.100
	M20	6.5 ... 14 mm	16.9 mm	23.4 mm	27 mm	29.7 mm	35.4 mm	243606	10	0.100
	M20	6.5 ... 14 mm	18 mm	24 mm	27 mm	29.7 mm	35.4 mm	243607	10	0.100
	M20	6.5 ... 14 mm	18.7 mm	25 mm	27 mm	29.7 mm	35.4 mm	243608	10	0.100
	M20	6.5 ... 14 mm	20 mm	26.3 mm	27 mm	29.7 mm	35.4 mm	243609	10	0.120
	M20	6.5 ... 14 mm	20.5 mm	28 mm	27 mm	29.7 mm	35.4 mm	243610	10	0.110
20s	M20	6.1 ... 11.4 mm	13 mm	20 mm	24 mm	26.4 mm	33.1 mm	243602	10	0.090
	M20	6.1 ... 11.7 mm	13.9 mm	20 mm	24 mm	26.4 mm	33.1 mm	243603	10	0.090
	M20	6.1 ... 11.7 mm	14.7 mm	21.5 mm	24 mm	26.4 mm	33.1 mm	243604	10	0.090
20s/16	M20	3.2 ... 4.1 mm	5.1 mm	12 mm	24 mm	26.4 mm	33.2 mm	243593	10	0.090
	M20	3.2 ... 5.2 mm	6.8 mm	13 mm	24 mm	26.4 mm	33.2 mm	243594	10	0.090
	M20	3.2 ... 5.5 mm	7.8 mm	13 mm	24 mm	26.4 mm	33.2 mm	243595	10	0.090
	M20	3.2 ... 8 mm	9.1 mm	15 mm	24 mm	26.4 mm	33.2 mm	243596	10	0.080
	M20	3.2 ... 8.1 mm	9.5 mm	15 mm	24 mm	26.4 mm	33.2 mm	243597	10	0.090
	M20	3.2 ... 8.1 mm	10.2 mm	16 mm	24 mm	26.4 mm	33.2 mm	243598	10	0.090
	M20	3.2 ... 8.1 mm	10.9 mm	17 mm	24 mm	26.4 mm	33.2 mm	243599	10	0.090
M20	3.2 ... 8.1 mm	11.7 mm	17.4 mm	24 mm	26.4 mm	33.2 mm	243600	10	0.090	

E10

Selection Table										
Thread standard		metric								
Gland size	Thread size	Inner sheath	Inner conduit diameter max.	Outer conduit diameter max.	Width across flats	Width across corners	Protrusion length	Art. No.	PS	Weight kg
25	M25	11.1 ... 15.3 mm	17.6 mm	25 mm	36 mm	39.6 mm	43.1 mm	243611	10	0.160
	M25	11.1 ... 18.4 mm	20.7 mm	27 mm	36 mm	39.6 mm	43.1 mm	243612	10	0.160
	M25	11.1 ... 19 mm	22.3 mm	28.5 mm	36 mm	39.6 mm	43.1 mm	243613	10	0.170
	M25	11.1 ... 20 mm	23.7 mm	32 mm	36 mm	39.6 mm	43.1 mm	243614	10	0.180
	M25	11.1 ... 20 mm	25.1 mm	31 mm	36 mm	39.6 mm	43.1 mm	243615	10	0.170
	M25	11.1 ... 20 mm	26.5 mm	35 mm	36 mm	39.6 mm	43.1 mm	243616	10	0.180
32	M32	17 ... 26 mm	28.1 mm	35.8 mm	41 mm	45.1 mm	43.1 mm	243617	10	0.210
	M32	17 ... 26.3 mm	30.4 mm	38 mm	41 mm	45.1 mm	43.1 mm	243618	10	0.210
	M32	17 ... 26.3 mm	34.6 mm	45 mm	41 mm	45.1 mm	43.1 mm	243619	10	0.250
40	M40	23.5 ... 32.2 mm	36.4 mm	45 mm	50 mm	55 mm	45.1 mm	243620	10	0.280
	M40	23.5 ... 32.2 mm	40 mm	49 mm	50 mm	55 mm	45.1 mm	243621	10	0.300
50	M50	35.6 ... 44 mm	51.2 mm	61 mm	60 mm	66 mm	48 mm	243624	10	0.490
50s	M50	31 ... 38.2 mm	46.5 mm	58.7 mm	55 mm	60.5 mm	43.8 mm	243622	10	0.480
	M50	31 ... 38.2 mm	51.2 mm	61 mm	55 mm	60.5 mm	43.8 mm	243623	10	0.490

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection IECEx 2	Ex e Gb
Gas explosion protection ATEX	Ⓜ II 2 G Ex d IIC Gb
Gas explosion protection ATEX 2	Ⓜ II 2 G Ex e Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X 2 Ex nR IIC Gc X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓜ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Firedamp protection IECEx	Ex d I Mb
Firedamp protection IECEx 2	Ex e I Mb
Firedamp protection ATEX	Ⓜ I M2 Ex d I Mb
Firedamp protection ATEX 2	Ⓜ I M2 Ex e I Mb
Restricted breathing IECEx	Ex nR IIC Gc
Restricted breathing ATEX	Ⓜ II 3 G Ex nR IIC Gc
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)
Electrical Data	
Ex version	Ex e & Ex d & Ex nR & Ex ta
Ambient Conditions	
Ambient temperature	-60 °C ... +130 °C
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	Mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



- A = Inner sheath C = Thread size
- D = Width across corners D = Width across flats
- E = Thread length F = Protrusion length
- G = Inner conduit diameter max.
- B = Outer conduit diameter max.

You can find all the dimensions online at r-stahl.com

Cable Glands Ex e & Ex d & Ex nR & Ex ta

Series A2FRC for Unarmoured Cables / Rigid Conduit Connection



- Ex d and Ex e cable entry for all unarmoured cables and cables with wire-braid armouring in flexible conduits
- Sealing for the outer cable sheath provided by an explosion-protected displacement seal
- Worldwide certification in accordance with IECEx, ATEX and CSA

WebCode **A2FRCA**



A2FRC series metal Ex d and Ex e cable entries are designed for all types of unarmoured cables and cables with wire-braid armouring that are run through flexible or rigid conduits. Installation is incredibly easy thanks to a fitting that can be rotated freely. The cable entries are designed to prevent cold flow.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table											
Thread standard		metric									
Gland size	Thread size	Inner sheath	Thread length	Inner conduit thread	Width across flats	Width across corners	Protrusion length	PVC-shroud	Art. No.	PS	Weight kg
20	M20	6.5 ... 14 mm	15 mm	M20	27 mm	29.7 mm	42.4 mm	PVC05	243627	10	0.110
20s	M20	6.1 ... 11.7 mm	15 mm	M20	24 mm	26.4 mm	43.6 mm	PVC04	243626	10	0.110
20s/16	M20	3.2 ... 8.7 mm	15 mm	M20	24 mm	26.4 mm	43.6 mm	PVC04	243625	10	0.110
25	M25	11.1 ... 20 mm	15 mm	M25	36 mm	39.6 mm	50.4 mm	PVC09	243628	10	0.200
32	M32	17 ... 26.3 mm	15 mm	M32	41 mm	45.1 mm	50.7 mm	PVC10	243629	10	0.240
40	M40	23.5 ... 32.2 mm	15 mm	M40	50 mm	55 mm	51.4 mm	PVC13	243630	10	0.330
50	M50	35.6 ... 44 mm	15 mm	M50	60 mm	66 mm	62 mm	PVC18	243632	10	0.440
50s	M50	31 ... 38.2 mm	15 mm	M50	55 mm	60.5 mm	55.2 mm	PVC15	243631	10	0.430
63	M63	47.2 ... 55.9 mm	15 mm	M63	75 mm	82.5 mm	61.5 mm	PVC23	243634	10	0.640
63s	M63	41.5 ... 49.9 mm	15 mm	M63	70.5 mm	77.6 mm	58.4 mm	PVC21	243633	10	0.720

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection IECEx 2	Ex e Gb
Gas explosion protection ATEX	⊕ II 2 G Ex d IIC Gb
Gas explosion protection ATEX 2	⊕ II 2 G Ex e Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X 2 Ex nR IIC Gc X
Dust explosion protection IECEx	Ex ta IIIC Da

E10

Technical Data

Explosion Protection

Dust explosion protection ATEX	⊕ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Firedamp protection IECEx	Ex d I Mb
Firedamp protection IECEx 2	Ex e I Mb
Firedamp protection ATEX	⊕ I M2 Ex d I Mb
Firedamp protection ATEX 2	⊕ I M2 Ex e I Mb
Restricted breathing IECEx	Ex nR IIC Gc
Restricted breathing ATEX	⊕ II 3 G Ex nR IIC Gc
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

Electrical Data

Ex version	Ex e & Ex d & Ex nR & Ex ta
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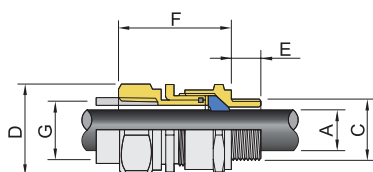
Ambient Conditions

Ambient temperature	-60 °C ... +130 °C
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Mechanical Data

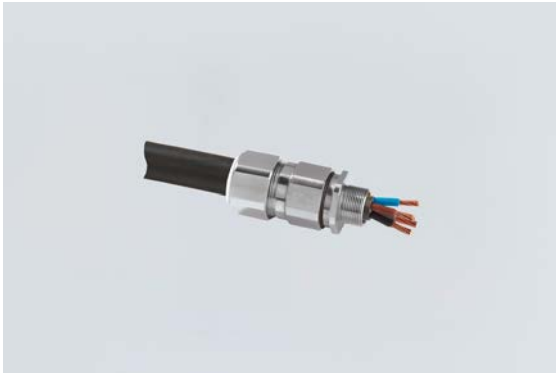
Degree of protection (IP)	IP66
Type of protection note	Mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass
Sealing material	SOLO LSF
Armouring type	Unarmoured cable types
Construction type	BS 6121, IEC/EN 62444

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = Inner sheath C = Thread size
D = Width across corners D = Width across flats
E = Thread length F = Protrusion length
G = Inner conduit thread

You can find all the dimensions online at r-stahl.com



- Ex e cable glands for all armoured cables: SWA, braid- and tape-type steel or aluminium armouring
- Safety provided by flood seal with integral protection and controlled outer load retention seal
- Worldwide certification in accordance with IECEx and ATEX, EMC-tested

WebCode **C2KA**



C2K series metal Ex e cable glands are suitable for all types of armoured cables, i.e. for SWA, braid- and tape-type steel and aluminium armouring. They feature a multifunctional holder for the armouring and various seals. They are also EMC-tested.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table											
Thread standard		metric									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Protrusion length	Grooved cone	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
20	M20	14 mm	12.5 ... 20.9 mm	30.5 mm	63 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	243506	10	0.220
20s	M20	11.7 mm	9.5 ... 15.9 mm	30.5 mm	62 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC06	243505	10	0.240
20s/16	M20	8.7 mm	6.1 ... 13.1 mm	30.5 mm	65 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC06	243504	10	0.230
25	M25	20 mm	18.2 ... 26.2 mm	37.5 mm	69.5 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	243507	10	0.350
25s	M25	20 mm	14 ... 22 mm	37.5 mm	69.5 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	109416	10	0.350
32	M32	26 mm	23.7 ... 33.9 mm	46 mm	75 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	243508	10	0.550
40	M40	32.2 mm	27.9 ... 40.4 mm	55 mm	75 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	243509	10	0.750
50	M50	44.1 mm	40.4 ... 53 mm	70.1 mm	77 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	243510	10	1.130
50s	M50	38.2 mm	35.2 ... 46.7 mm	60 mm	77 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	109419	10	0.860
63	M63	56 mm	54.6 ... 65.8 mm	80 mm	80 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC25	109422	10	1.340
63s	M63	50 mm	45.6 ... 59.4 mm	75 mm	80 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC23	109421	10	1.350
75	M75	64.2 mm	66.7 ... 78.4 mm	100 mm	88 mm	0.6 ... 1.6 mm	2.5 ... 3 mm	PVC30	109424	10	2.480
75s	M75	62 mm	59 ... 72 mm	90 mm	87 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC28	109423	10	2.020

E10

Selection Table

Thread standard		NPT							Art. No.	PS	Weight kg
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Protrusion length	Grooved cone	Stepped cone	PVC-shroud			
20	NPT1/2	14 mm	12.5 ... 20.9 mm	30.5 mm	63 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	246312	10	0.220
20s	NPT1/2	11.7 mm	9.5 ... 15.9 mm	30.5 mm	62 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC06	246311	10	0.240
20s/16	NPT1/2	8.7 mm	6.1 ... 13.1 mm	30.5 mm	65 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC06	246310	10	0.230
25	NPT3/4	20 mm	18.2 ... 26.2 mm	37.5 mm	69.5 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	246314	10	0.350
25s	NPT3/4	20 mm	14 ... 22 mm	37.5 mm	69.5 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	246313	10	0.350
32	NPT1	26 mm	23.7 ... 33.9 mm	46 mm	75 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	246315	10	0.550
40	NPT1-1/4	32.2 mm	27.9 ... 40.4 mm	55 mm	75 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	246316	10	0.750
50	NPT2	44.1 mm	40.4 ... 53 mm	70.1 mm	77 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	246318	10	1.130
50s	NPT1-1/2	38.2 mm	35.2 ... 46.7 mm	60 mm	77 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	246317	10	0.860
63	NPT2-1/2	56 mm	54.6 ... 65.8 mm	80 mm	80 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC25	246320	10	1.340
63s	NPT2	50 mm	45.6 ... 59.4 mm	75 mm	80 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC23	246319	10	1.350

Grooved cone: for cables with braid- or tape-type armouring
Stepped cone: for cables with wire armouring (SWA)

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex e IIC Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex e IIC Gb
Gas explosion protection EAC	1 Ex e IIC Gb X 2 Ex nR IIC Gc X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓔ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Restricted breathing IECEx	Ex nR IIC Gc
Restricted breathing ATEX	Ⓔ II 3 G Ex nR IIC Gc
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

Electrical Data

Ex version	Ex e & Ex nR & Ex ta
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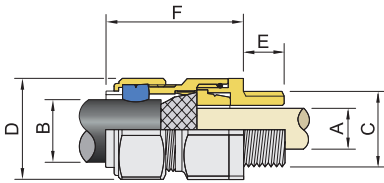
Ambient Conditions

Ambient temperature	-60 °C ... +130 °C
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Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass
Sealing material	SOLO LSF
Armouring type	All armouring
Construction type	BS 6121, IEC/EN 62444

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



- A = Max. inner sheath
- B = Outer sheath
- C = Thread size
- D = Width across corners
- D = Width across flats
- E = Thread length
- F = Protrusion length

You can find all the dimensions online at r-stahl.com



- Ex e cable entry for cables with SWA steel or aluminium armouring
- Controlled outer load retention seal
- Worldwide certification in accordance with IECEx and ATEX, EMC-tested

WebCode **CWeA**



CWe series metal Ex e cable entries are suitable for the following types of armoured cables: SWA and tape-type steel and aluminium armouring. They feature a special holder for the armouring and various seals. They are also EMC-tested.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table

Thread standard		metric									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
20	M20	14 mm	12.5 ... 20.9 mm	30.5 mm	33.6 mm	48 mm	0.8 ... 1.25 mm	PVC06	246473	10	0.150
20s/16	M20	8.7 mm	6.1 ... 13.1 mm	24 mm	26.4 mm	48 mm	0.8 ... 1.25 mm	PVC04	246472	10	0.100
25	M25	20 mm	18.2 ... 26.2 mm	37.5 mm	41.3 mm	56 mm	1.25 ... 1.6 mm	PVC09	246474	10	0.220
32	M32	26 mm	23.7 ... 33.9 mm	46 mm	50.6 mm	54 mm	1.6 ... 2 mm	PVC11	246475	10	0.310
40	M40	32.2 mm	27.9 ... 40.4 mm	55 mm	60.5 mm	58 mm	1.6 ... 2 mm	PVC15	246476	10	0.450
50	M50	44.1 mm	40.4 ... 53 mm	70.1 mm	77.1 mm	60 mm	2 ... 2.5 mm	PVC21	246478	10	0.750
50s	M50	38.2 mm	35.2 ... 46.7 mm	60 mm	66 mm	61 mm	2 ... 2.5 mm	PVC18	246477	10	0.570
63	M63	56 mm	54.6 ... 65.8 mm	80 mm	88 mm	71 mm	2 ... 2.5 mm	PVC25	246480	10	1.020
63s	M63	50 mm	45.6 ... 59.4 mm	75 mm	82.5 mm	74 mm	2 ... 2.5 mm	PVC23	246479	10	1.040
Thread standard		NPT									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
20	NPT1/2	14 mm	12.5 ... 20.9 mm	30.5 mm	33.6 mm	48 mm	0.8 ... 1.25 mm	PVC06	246484	10	0.150
20s	NPT1/2	11.7 mm	9.5 ... 15.9 mm	24 mm	26.4 mm	48 mm	0.8 ... 1.25 mm	PVC04	251704	10	0.100
20s/16	NPT1/2	8.7 mm	6.1 ... 13.1 mm	24 mm	26.4 mm	48 mm	0.8 ... 1.25 mm	PVC04	246483	10	0.100
25	NPT3/4	20 mm	18.2 ... 26.2 mm	37.5 mm	41.3 mm	56 mm	1.25 ... 1.6 mm	PVC09	246485	10	0.220
25s	NPT3/4	20 mm	14 ... 22 mm	37.5 mm	39.6 mm	56 mm	1.25 ... 1.6 mm	PVC09	251705	10	0.220

Cable Glands Ex e & Ex ta

Series CWe for Single Wire / Steel Wire Armoured Cables (SWA)

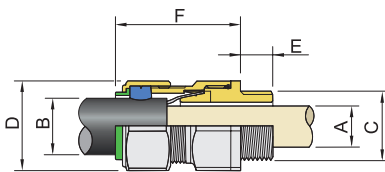


Selection Table											
Thread standard		NPT									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
32	NPT1	26 mm	23.7 ... 33.9 mm	46 mm	50.6 mm	54 mm	1.6 ... 2 mm	PVC11	246486	10	0.310
40	NPT1-1/4	32.2 mm	27.9 ... 40.4 mm	55 mm	60.5 mm	58 mm	1.6 ... 2 mm	PVC15	246487	10	0.450
50	NPT2	44.1 mm	40.4 ... 53 mm	70.1 mm	77.1 mm	60 mm	2 ... 2.5 mm	PVC21	246489	10	0.750
50s	NPT1-1/2	38.2 mm	35.2 ... 46.7 mm	60 mm	66 mm	61 mm	2 ... 2.5 mm	PVC18	246488	10	0.570
63	NPT2-1/2	56 mm	54.6 ... 65.8 mm	70 mm	88 mm	71 mm	2 ... 2.5 mm	PVC25	246491	10	1.020

Stepped cone: for cables with wire armouring (SWA)

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex e IIC Gb
Gas explosion protection EAC	1 Ex e IIC Gb X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓔ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)
Electrical Data	
Ex version	Ex e & Ex ta
Ambient Conditions	
Ambient temperature	-60 °C ... +130 °C
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass
Sealing material	SOLO LSF
Armouring type	Single-wire armouring
Construction type	BS 6121, IEC/EN 62444

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = Max. inner sheath B = Outer sheath
 C = Thread size D = Width across corners
 D = Width across flats E = Thread length
 F = Protrusion length

You can find all the dimensions online at r-stahl.com

E10



- Ex e cable entry for cables with braid- and tape-type steel or aluminium armouring
- Controlled outer load retention seal
- Worldwide certification in accordance with IECEx and ATEX, EMC-tested

WebCode **CXeA**



CXe series metal Ex e cable entries are suitable for the following types of armoured cables: Braid-type steel and aluminium armouring. They feature a special holder for the armouring and various seals. They are also EMC-tested.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table

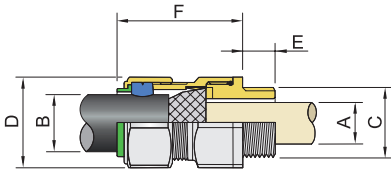
Thread standard		metric									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	Grooved cone	PVC-shroud	Art. No.	PS	Weight kg
20	M20	14 mm	12.5 ... 20.9 mm	30.5 mm	33.6 mm	48 mm	0.4 ... 1 mm	PVC06	246517	10	0.150
20s/16	M20	8.7 mm	6.1 ... 13.1 mm	24 mm	26.4 mm	48 mm	0.3 ... 1 mm	PVC04	246516	10	0.100
25	M25	20 mm	18.2 ... 26.2 mm	37.5 mm	41.3 mm	56 mm	0.4 ... 1.2 mm	PVC09	246518	10	0.220
32	M32	26 mm	23.7 ... 33.9 mm	46 mm	50.6 mm	54 mm	0.4 ... 1.2 mm	PVC11	246519	10	0.310
40	M40	32.2 mm	27.9 ... 40.4 mm	55 mm	60.5 mm	58 mm	0.4 ... 1.6 mm	PVC15	246520	10	0.450
50	M50	44.1 mm	40.4 ... 53 mm	70.1 mm	77.1 mm	60 mm	0.6 ... 1.6 mm	PVC21	246522	10	0.750
50s	M50	38.2 mm	35.2 ... 46.7 mm	60 mm	66 mm	61 mm	0.4 ... 1.6 mm	PVC18	246521	10	0.570
63	M63	56 mm	54.6 ... 65.8 mm	80 mm	88 mm	71 mm	0.6 ... 1.6 mm	PVC25	246524	10	1.020
63s	M63	50 mm	45.6 ... 59.4 mm	75 mm	82.5 mm	74 mm	0.6 ... 1.6 mm	PVC23	246523	10	1.040
75	M75	64.2 mm	66.7 ... 78.4 mm	100 mm	110 mm	82 mm	0.6 ... 1.6 mm	PVC30	246526	10	2.090
75s	M75	62 mm	59 ... 72 mm	90 mm	99 mm	86 mm	0.6 ... 1.6 mm	PVC28	246525	10	1.790
Thread standard		NPT									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	Grooved cone	PVC-shroud	Art. No.	PS	Weight kg
20	NPT1/2	14 mm	12.5 ... 20.9 mm	30.5 mm	33.6 mm	48 mm	0.4 ... 1 mm	PVC06	246528	10	0.150
20s	NPT1/2	11.7 mm	9.5 ... 15.9 mm	24 mm	26.4 mm	48 mm	0.3 ... 1 mm	PVC04	251702	10	0.100
20s/16	NPT1/2	8.7 mm	6.1 ... 13.1 mm	24 mm	26.4 mm	48 mm	0.3 ... 1 mm	PVC04	246527	10	0.100

Selection Table											
Thread standard		NPT									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	Grooved cone	PVC-shroud	Art. No.	PS	Weight kg
25	NPT3/4	20 mm	18.2 ... 26.2 mm	37.5 mm	41.3 mm	56 mm	0.4 ... 1.2 mm	PVC09	246529	10	0.220
25s	NPT3/4	20 mm	14 ... 22 mm	37.5 mm	39.6 mm	56 mm	0.4 ... 1.2 mm	PVC09	251703	10	0.220
32	NPT1	26 mm	23.7 ... 33.9 mm	46 mm	50.6 mm	54 mm	0.4 ... 1.2 mm	PVC11	246530	10	0.310
40	NPT1-1/4	32.2 mm	27.9 ... 40.4 mm	55 mm	60.5 mm	58 mm	0.4 ... 1.6 mm	PVC15	246531	10	0.450
50	NPT2	44.1 mm	40.4 ... 53 mm	70.1 mm	77.1 mm	60 mm	0.6 ... 1.6 mm	PVC21	246533	10	0.750
50s	NPT1-1/2	38.2 mm	35.2 ... 46.7 mm	60 mm	66 mm	61 mm	0.4 ... 1.6 mm	PVC18	246532	10	0.570
63	NPT2-1/2	56 mm	54.6 ... 65.8 mm	80 mm	88 mm	71 mm	0.6 ... 1.6 mm	PVC25	246535	10	1.020
63s	NPT2	50 mm	45.6 ... 59.4 mm	75 mm	82.5 mm	74 mm	0.6 ... 1.6 mm	PVC23	246534	10	1.040
75	NPT3	64.2 mm	66.7 ... 78.4 mm	100 mm	110 mm	82 mm	0.6 ... 1.6 mm	PVC30	246537	10	2.090
75s	NPT2-1/2	62 mm	59 ... 72 mm	90 mm	99 mm	86 mm	0.6 ... 1.6 mm	PVC28	246536	10	1.790

Grooved cone: for cables with braid- or tape-type armouring

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex e IIC Gb
Gas explosion protection EAC	1 Ex e IIC Gb X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓔ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)
Electrical Data	
Ex version	Ex e & Ex ta
Ambient Conditions	
Ambient temperature	-60 °C ... +130 °C
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass
Sealing material	SOLO LSF
Armouring type	Wire braid cable
Construction type	BS 6121, IEC/EN 62444

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

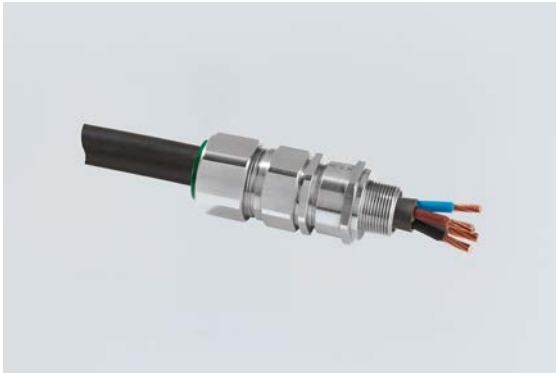


A = Max. inner sheath B = Outer sheath
 C = Thread size D = Width across corners
 D = Width across flats E = Thread length
 F = Protrusion length

You can find all the dimensions online at r-stahl.com

Cable Glands Ex e & Ex d & Ex nR & Ex ta

Series E1FU for all Armouring without Lead Sheath



- Ex d and Ex e cable entry for all armoured cables: SWA, braid- and tape-type steel or aluminium armouring
- Explosion-protected displacement seal for the outer cable sheath, controlled outer load retention seal
- Worldwide certification in accordance with IECEx, ATEX and cCSAus, EMC-tested

WebCode **E1FUA**



E1FU series metal Ex d and Ex e cable entries are suitable for all types of armoured cables, i.e. for SWA, braid- and tape-type steel and aluminium armouring. They feature a multi-functional holder for the armouring and various seals. They are also designed to prevent cold flow and are EMC-tested.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table											
Thread standard		metric									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Protrusion length	Grooved cone	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
20	M20	6.5 ... 13.9 mm	12.5 ... 20.9 mm	30.5 mm	73 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	243484	10	0.210
20s	M20	6.1 ... 11.6 mm	9.5 ... 15.9 mm	24 mm	70 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC04	243483	10	0.150
20s/16	M20	3.1 ... 8.6 mm	6.1 ... 13.1 mm	24 mm	72.5 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC04	243482	10	0.160
25	M25	11.1 ... 19.9 mm	18.2 ... 26.2 mm	37.5 mm	89 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	243486	10	0.330
25s	M25	11.1 ... 19.9 mm	14 ... 22 mm	37.5 mm	89 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	243485	10	0.330
32	M32	17 ... 26.2 mm	23.7 ... 33.9 mm	46 mm	86 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	243487	10	0.430
40	M40	22 ... 32.1 mm	27.9 ... 40.4 mm	55 mm	90 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	243488	10	0.620
50	M50	35.6 ... 44 mm	40.4 ... 53 mm	70.1 mm	95 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	243490	10	0.950
50s	M50	29.5 ... 38.1 mm	35.2 ... 46.7 mm	60 mm	91 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	243489	10	0.750
63	M63	47.2 ... 55.9 mm	54.6 ... 65.8 mm	80 mm	104 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC25	243492	10	1.340
63s	M63	40.1 ... 49.9 mm	45.6 ... 59.4 mm	75 mm	102 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC23	243491	10	1.340
75	M75	59.1 ... 67.9 mm	66.7 ... 78.4 mm	100 mm	117 mm	0.6 ... 1.6 mm	2.5 ... 3 mm	PVC30	246283	10	2.420
75s	M75	52.8 ... 61.9 mm	59 ... 72 mm	90 mm	115 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC28	246282	10	2.110

E10

Selection Table

Thread standard		NPT							Art. No.	PS	Weight kg
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Protrusion length	Grooved cone	Stepped cone	PVC-shroud			
20	NPT1/2	6.5 ... 13.9 mm	12.5 ... 20.9 mm	30.5 mm	73 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	246286	10	0.210
20s	NPT1/2	6.1 ... 11.6 mm	9.5 ... 15.9 mm	24 mm	70 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC04	246285	10	0.150
20s/16	NPT1/2	3.1 ... 8.6 mm	6.1 ... 13.1 mm	24 mm	72.5 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC04	246284	10	0.160
25	NPT3/4	11.1 ... 19.9 mm	18.2 ... 26.2 mm	37.5 mm	89 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	246288	10	0.330
25s	NPT3/4	11.1 ... 19.9 mm	14 ... 22 mm	37.5 mm	89 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	246287	10	0.330
32	NPT1	17 ... 26.2 mm	23.7 ... 33.9 mm	46 mm	86 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	246289	10	0.430
40	NPT1-1/4	22 ... 32.1 mm	27.9 ... 40.4 mm	55 mm	90 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	246290	10	0.620
50	NPT2	35.6 ... 44 mm	40.4 ... 53 mm	70.1 mm	95 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	246292	10	0.950
50s	NPT1-1/2	29.5 ... 38.1 mm	35.2 ... 46.7 mm	60 mm	91 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	246291	10	0.750
63	NPT2-1/2	47.2 ... 55.9 mm	54.6 ... 65.8 mm	80 mm	104 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC25	246294	10	1.340
63s	NPT2	40.1 ... 49.9 mm	45.6 ... 59.4 mm	75 mm	102 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC23	246293	10	1.340

Grooved cone: for cables with braid- or tape-type armouring
Stepped cone: for cables with wire armouring (SWA)

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection IECEx 2	Ex e IIC Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex d IIC Gb
Gas explosion protection ATEX 2	Ⓔ II 2 G Ex e IIC Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X 2 Ex nR IIC Gc X

Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓔ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X

Firedamp protection IECEx	Ex d I Mb
Firedamp protection IECEx 2	Ex e I Mb
Firedamp protection ATEX	Ⓔ I M2 Ex d I Mb
Firedamp protection ATEX 2	Ⓔ I M2 Ex e I Mb

Restricted breathing IECEx	Ex nR IIC Gc
Restricted breathing ATEX	Ⓔ II 3 G Ex nR IIC Gc

Note: The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

Electrical Data

Ex version	Ex e & Ex d & Ex nR & Ex ta
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Ambient Conditions

Ambient temperature	-60 °C ... +130 °C
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Mechanical Data

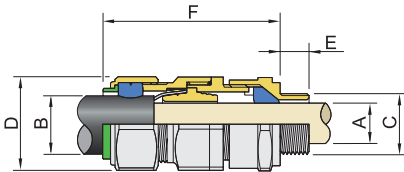
Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass
Sealing material	SOLO LSF

Technical Data

Mechanical Data

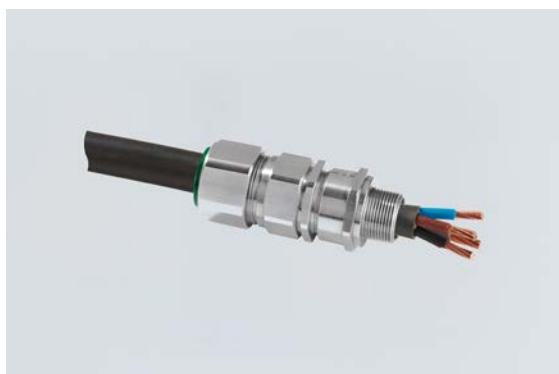
Armouring type	All armouring
Construction type	BS 6121, IEC/EN 62444

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = Inner sheath B = Outer sheath
C = Thread size D = Width across corners
D = Width across flats E = Thread length
F = Protrusion length

You can find all the dimensions online at r-stahl.com



- Ex d and Ex e cable entries for cables with SWA armouring
- Designed to prevent cold flow
- Worldwide certification in accordance with IECEx, ATEX and cCSAus, EMC-tested

WebCode **E1FWA**



E1FW series metal Ex d and Ex e cable entries are suitable for the following specific types of armoured cables: SWA and tape-type steel and aluminium armouring. They feature a special holder for the armouring and various seals. They are also designed to prevent cold flow and are EMC-tested.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table

Thread standard		metric									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
20	M20	6.5 ... 13.9 mm	12.5 ... 20.9 mm	30.5 mm	33.6 mm	73 mm	0.8 ... 1.25 mm	PVC06	246429	10	0.210
20s/16	M20	3.1 ... 8.6 mm	6.1 ... 13.1 mm	24 mm	26.4 mm	72.5 mm	0.8 ... 1.25 mm	PVC04	246428	10	0.160
25	M25	11.1 ... 19.9 mm	18.2 ... 26.2 mm	37.5 mm	41.3 mm	89 mm	1.25 ... 1.6 mm	PVC09	246430	10	0.330
32	M32	17 ... 26.2 mm	23.7 ... 33.9 mm	46 mm	50.6 mm	86 mm	1.6 ... 2 mm	PVC11	246431	10	0.430
40	M40	22 ... 32.1 mm	27.9 ... 40.4 mm	55 mm	60.5 mm	90 mm	1.6 ... 2 mm	PVC15	246432	10	0.620
50	M50	35.6 ... 44 mm	40.4 ... 53 mm	70.1 mm	77.1 mm	95 mm	2 ... 2.5 mm	PVC21	246434	10	0.950
50s	M50	29.5 ... 38.1 mm	35.2 ... 46.7 mm	60 mm	66 mm	91 mm	2 ... 2.5 mm	PVC18	246433	10	0.750
63	M63	47.2 ... 55.9 mm	54.6 ... 65.8 mm	80 mm	88 mm	104 mm	2 ... 2.5 mm	PVC25	246436	10	1.340
63s	M63	40.1 ... 49.9 mm	45.6 ... 59.4 mm	75 mm	82.5 mm	102 mm	2 ... 2.5 mm	PVC23	246435	10	1.340
75	M75	59.1 ... 67.9 mm	66.7 ... 78.4 mm	100 mm	110 mm	117 mm	2.5 ... 3 mm	PVC30	246438	10	2.420
Thread standard		NPT									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
20	NPT1/2	6.5 ... 13.9 mm	12.5 ... 20.9 mm	30.5 mm	33.6 mm	73 mm	0.8 ... 1.25 mm	PVC06	246440	10	0.210
20s	NPT1/2	6.1 ... 11.6 mm	9.5 ... 15.9 mm	24 mm	26.4 mm	70 mm	0.8 ... 1.25 mm	PVC04	251708	10	0.150
20s/16	NPT1/2	3.1 ... 8.6 mm	6.1 ... 13.1 mm	24 mm	26.4 mm	72.5 mm	0.8 ... 1.25 mm	PVC04	246439	10	0.160

Cable Glands Ex e & Ex d & Ex nR & Ex ta

Series E1FW for Single Wire / Steel Wire Armoured Cables (SWA)



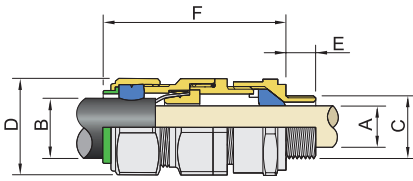
Selection Table											
Thread standard		NPT									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
25	NPT3/4	11.1 ... 19.9 mm	18.2 ... 26.2 mm	37.5 mm	41.3 mm	89 mm	1.25 ... 1.6 mm	PVC09	246441	10	0.330
25s	NPT3/4	11.1 ... 19.9 mm	14 ... 22 mm	37.5 mm	41.3 mm	89 mm	1.25 ... 1.6 mm	PVC09	251709	10	0.330
32	NPT1	17 ... 26.2 mm	23.7 ... 33.9 mm	46 mm	50.6 mm	86 mm	1.6 ... 2 mm	PVC11	246442	10	0.430
40	NPT1-1/4	22 ... 32.1 mm	27.9 ... 40.4 mm	55 mm	60.5 mm	90 mm	1.6 ... 2 mm	PVC15	246443	10	0.620
50	NPT2	35.6 ... 44 mm	40.4 ... 53 mm	70.1 mm	77.1 mm	95 mm	2 ... 2.5 mm	PVC21	246445	10	0.950
50s	NPT1-1/2	29.5 ... 38.1 mm	35.2 ... 46.7 mm	60 mm	66 mm	91 mm	2 ... 2.5 mm	PVC18	246444	10	0.750
63	NPT2-1/2	47.2 ... 55.9 mm	54.6 ... 65.8 mm	80 mm	88 mm	104 mm	2 ... 2.5 mm	PVC25	246447	10	1.340
63s	NPT2	40.1 ... 49.9 mm	45.6 ... 59.4 mm	75 mm	82.5 mm	102 mm	2 ... 2.5 mm	PVC23	246446	10	1.340

Stepped cone: for cables with wire armouring (SWA)

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection IECEx 2	Ex e IIC Gb
Gas explosion protection ATEX	Ⓜ II 2 G Ex d IIC Gb
Gas explosion protection ATEX 2	Ⓜ II 2 G Ex e IIC Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X 2 Ex nR IIC Gc X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓜ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Firedamp protection IECEx	Ex d I Mb
Firedamp protection IECEx 2	Ex e I Mb
Firedamp protection ATEX	Ⓜ I M2 Ex d I Mb
Firedamp protection ATEX 2	Ⓜ I M2 Ex e I Mb
Restricted breathing IECEx	Ex nR IIC Gc
Restricted breathing ATEX	Ⓜ II 3 G Ex nR IIC Gc
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)
Electrical Data	
Ex version	Ex e & Ex d & Ex nR & Ex ta
Ambient Conditions	
Ambient temperature	-60 °C ... +130 °C
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass
Sealing material	SOLO LSF
Armouring type	Single-wire armouring

E10

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

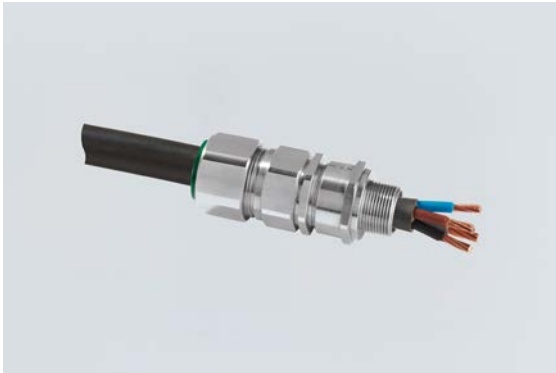


A = Inner sheath B = Outer sheath
 C = Thread size D = Width across corners
 D = Width across flats E = Thread length
 F = Protrusion length

You can find all the dimensions online at r-stahl.com

Cable Glands Ex e & Ex d & Ex nR & Ex ta

Series E1FX for Wire Braid / Steel Tape Armoured Cables



- Ex d and Ex e cable entry for cables with braid- and tape-type steel or aluminium armouring
- Explosion-protected displacement seal for the outer cable sheath, controlled outer load retention seal
- Worldwide certification in accordance with IECEx, ATEX and cCSAus, EMC-tested

WebCode **E1FXA**



E1FX series metal Ex d and Ex e cable entries are suitable for the following special types of armoured cables: braid-type steel and aluminium armouring. They feature a special holder for the armouring and various seals. They are also designed to prevent cold flow and are EMC-tested.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table											
Thread standard		metric									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	Grooved cone	PVC-shroud	Art. No.	PS	Weight kg
20	M20	6.5 ... 13.9 mm	12.5 ... 20.9 mm	30.5 mm	33.6 mm	73 mm	0.4 ... 1 mm	PVC06	246385	10	0.210
20s/16	M20	3.1 ... 8.6 mm	6.1 ... 13.1 mm	24 mm	26.4 mm	72.5 mm	0.3 ... 1 mm	PVC04	246384	10	0.160
25	M25	11.1 ... 19.9 mm	18.2 ... 26.2 mm	37.5 mm	41.3 mm	89 mm	0.4 ... 1.2 mm	PVC09	246386	10	0.330
32	M32	17 ... 26.2 mm	23.7 ... 33.9 mm	46 mm	50.6 mm	86 mm	0.4 ... 1.2 mm	PVC11	246387	10	0.430
40	M40	22 ... 32.1 mm	27.9 ... 40.4 mm	55 mm	60.5 mm	90 mm	0.4 ... 1.6 mm	PVC15	246388	10	0.620
50	M50	35.6 ... 44 mm	40.4 ... 53 mm	70.1 mm	77.1 mm	95 mm	0.6 ... 1.6 mm	PVC21	246390	10	0.950
50s	M50	29.5 ... 38.1 mm	35.2 ... 46.7 mm	60 mm	66 mm	91 mm	0.4 ... 1.6 mm	PVC18	246389	10	0.750
63	M63	47.2 ... 55.9 mm	54.6 ... 65.8 mm	80 mm	88 mm	104 mm	0.6 ... 1.6 mm	PVC25	246392	10	1.340
63s	M63	40.1 ... 49.9 mm	45.6 ... 59.4 mm	75 mm	82.5 mm	102 mm	0.6 ... 1.6 mm	PVC23	246391	10	1.340
75	M75	59.1 ... 67.9 mm	66.7 ... 78.4 mm	100 mm	110 mm	117 mm	0.6 ... 1.6 mm	PVC30	246394	10	2.420
75s	M75	52.8 ... 61.9 mm	59 ... 72 mm	90 mm	99 mm	115 mm	0.6 ... 1.6 mm	PVC28	246393	10	2.110
Thread standard		NPT									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	Grooved cone	PVC-shroud	Art. No.	PS	Weight kg
20	NPT1/2	6.5 ... 13.9 mm	12.5 ... 20.9 mm	30.5 mm	33.6 mm	73 mm	0.4 ... 1 mm	PVC06	246396	10	0.210
20s	NPT1/2	6.1 ... 11.6 mm	9.5 ... 15.9 mm	24 mm	26.4 mm	70 mm	0.3 ... 1 mm	PVC04	251706	10	0.150

E10

Selection Table

Thread standard		NPT							Art. No.	PS	Weight kg
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	Grooved cone	PVC-shroud			
20s/16	NPT1/2	3.1 ... 8.6 mm	6.1 ... 13.1 mm	24 mm	26.4 mm	72.5 mm	0.3 ... 1 mm	PVC04	246395	10	0.160
25	NPT3/4	11.1 ... 19.9 mm	18.2 ... 26.2 mm	37.5 mm	41.3 mm	89 mm	0.4 ... 1.2 mm	PVC09	246397	10	0.330
25s	NPT3/4	11.1 ... 19.9 mm	14 ... 22 mm	37.5 mm	41.3 mm	89 mm	0.4 ... 1.2 mm	PVC09	251707	10	0.330
32	NPT1	17 ... 26.2 mm	23.7 ... 33.9 mm	46 mm	50.6 mm	86 mm	0.4 ... 1.2 mm	PVC11	246398	10	0.430
40	NPT1-1/4	22 ... 32.1 mm	27.9 ... 40.4 mm	55 mm	60.5 mm	90 mm	0.4 ... 1.6 mm	PVC15	246399	10	0.620
50	NPT2	35.6 ... 44 mm	40.4 ... 53 mm	70.1 mm	77.1 mm	95 mm	0.6 ... 1.6 mm	PVC21	246401	10	0.950
50s	NPT1-1/2	29.5 ... 38.1 mm	35.2 ... 46.7 mm	60 mm	66 mm	91 mm	0.4 ... 1.6 mm	PVC18	246400	10	0.750
63	NPT2-1/2	47.2 ... 55.9 mm	54.6 ... 65.8 mm	80 mm	88 mm	104 mm	0.6 ... 1.6 mm	PVC25	246403	10	1.340

Grooved cone: for cables with braid- or tape-type armouring

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection IECEx 2	Ex e Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex d IIC Gb
Gas explosion protection ATEX 2	Ⓔ II 2 G Ex e Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X 2 Ex nR IIC Gc X

Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓔ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X

Firedamp protection IECEx	Ex d I Mb
Firedamp protection IECEx 2	Ex e I Mb
Firedamp protection ATEX	Ⓔ I M2 Ex d I Mb
Firedamp protection ATEX 2	Ⓔ I M2 Ex e I Mb

Restricted breathing IECEx	Ex nR IIC Gc
Restricted breathing ATEX	Ⓔ II 3 G Ex nR IIC Gc

Note: The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

Electrical Data

Ex version	Ex e & Ex d & Ex nR & Ex ta
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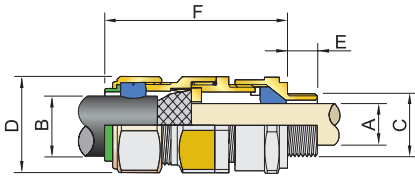
Ambient Conditions

Ambient temperature	-60 °C ... +130 °C
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Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass
Sealing material	SOLO LSF
Armouring type	Wire braid cable

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



- A = Inner sheath B = Outer sheath
- C = Thread size D = Width across corners
- D = Width across flats E = Thread length
- F = Protrusion length

You can find all the dimensions online at r-stahl.com



- Ex d and Ex e cable entry for cables with SWA, braid- and tape-type steel and aluminium armouring
- Designed to prevent cold flow
- Compensating displacement seal (CDS), flood seal with integral protection, controlled outer load retention seal
- Worldwide certification in accordance with IECEx, ATEX and cCSAus, EMC-tested

WebCode **TE1FUA**



TE1FU series metal Ex d and Ex e cable entries are suitable for all types of armoured cables, i.e. for SWA, braid- and tape-type steel and aluminium armouring. They feature a multi-functional holder for the armouring and various seals. They are also designed to prevent cold flow and are EMC-tested. Their auxiliary functions and the sequential, three-stage installation offer increased safety and reduce the amount of time, the costs and the risks involved in installation.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table

Thread standard		metric									Art. No.	PS	Weight kg
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Protrusion length	Grooved cone	Stepped cone	PVC-shroud					
20	M20	6.5 ... 13.9 mm	12.5 ... 20.9 mm	30.5 mm	61.5 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	243495	10	0.230		
20s	M20	6.1 ... 11.6 mm	9.5 ... 15.9 mm	24 mm	57.3 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC04	243494	10	0.150		
20s/16	M20	3.1 ... 8.6 mm	6.1 ... 13.1 mm	24 mm	57.3 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC04	243493	10	0.150		
25	M25	11.1 ... 19.9 mm	18.2 ... 26.2 mm	37.5 mm	74 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	243497	10	0.340		
25s	M25	11.1 ... 19.9 mm	14 ... 22 mm	37.5 mm	74 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	243496	10	0.340		
32	M32	17 ... 26.2 mm	23.7 ... 33.9 mm	46 mm	78.2 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	243498	10	0.550		
40	M40	22 ... 32.1 mm	27.9 ... 40.4 mm	55 mm	81.6 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	243499	10	0.790		
50	M50	35.6 ... 44 mm	40.4 ... 53 mm	70.1 mm	91.2 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	243501	10	1.370		
50s	M50	29.5 ... 38.1 mm	35.2 ... 46.7 mm	60 mm	88.1 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	243500	10	1.000		
63	M63	47.2 ... 55.9 mm	54.6 ... 65.8 mm	80 mm	90.3 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC25	243503	10	1.560		
63s	M63	40.1 ... 49.9 mm	45.6 ... 59.4 mm	75 mm	90.5 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC23	243502	10	1.500		
75	M75	59.1 ... 67.9 mm	66.7 ... 78.4 mm	100 mm	110.8 mm	0.6 ... 1.6 mm	2.5 ... 3 mm	PVC30	246298	10	3.150		
75s	M75	52.8 ... 61.9 mm	59 ... 72 mm	90 mm	104.7 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC28	246297	10	2.450		

E10

Cable Glands Ex e & Ex d & Ex nR & Ex ta

Series TE1FU for all Armouring without Lead Sheath, Stainless Steel

STAHL

Selection Table											
Thread standard		NPT									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Protrusion length	Grooved cone	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
20	NPT1/2	6.5 ... 13.9 mm	12.5 ... 20.9 mm	24 mm	61.2 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	246300	10	0.230
20s	NPT1/2	6.1 ... 11.6 mm	9.5 ... 15.9 mm	24 mm	57.3 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC04	251724	10	0.150
20s/16	NPT1/2	3.1 ... 8.6 mm	6.1 ... 13.1 mm	24 mm	57.3 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC04	246299	10	0.150
25	NPT3/4	11.1 ... 19.9 mm	18.2 ... 26.2 mm	37.5 mm	74 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	246301	10	0.340
25s	NPT3/4	11.1 ... 19.9 mm	14 ... 22 mm	37.5 mm	74 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	251725	10	0.340
32	NPT1	17 ... 26.2 mm	23.7 ... 33.9 mm	46 mm	78.2 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	246302	10	0.550
40	NPT1-1/4	22 ... 32.1 mm	27.9 ... 40.4 mm	55 mm	81.6 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	246303	10	0.790
50	NPT2	35.6 ... 44 mm	40.4 ... 53 mm	70.1 mm	91.2 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	246305	10	1.370
50s	NPT1-1/2	29.5 ... 38.1 mm	35.2 ... 46.7 mm	60 mm	88.1 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	246304	10	1.000
63	NPT2-1/2	47.2 ... 55.9 mm	54.6 ... 65.8 mm	80 mm	90.3 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC25	246307	10	1.560
63s	NPT2	40.1 ... 49.9 mm	45.6 ... 59.4 mm	75 mm	90.5 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC23	246306	10	1.500
75	NPT3	59.1 ... 67.9 mm	66.7 ... 78.4 mm	100 mm	110.8 mm	0.6 ... 1.6 mm	2.5 ... 3 mm	PVC30	246309	10	3.150
75s	NPT2-1/2	52.8 ... 61.9 mm	59 ... 72 mm	90 mm	104.7 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC28	246308	10	2.450

Grooved cone: for cables with braid- or tape-type armouring
Stepped cone: for cables with wire armouring (SWA)

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection IECEx 2	Ex e IIC Gb
Gas explosion protection ATEX	⊕ II 2 G Ex d IIC Gb
Gas explosion protection ATEX 2	⊕ II 2 G Ex e IIC Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X 2 Ex nR IIC Gc X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	⊕ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Firedamp protection IECEx	Ex d I Mb
Firedamp protection IECEx 2	Ex e I Mb
Firedamp protection ATEX	⊕ I M2 Ex d I Mb
Firedamp protection ATEX 2	⊕ I M2 Ex e I Mb
Restricted breathing IECEx	Ex nR IIC Gc
Restricted breathing ATEX	⊕ II 3 G Ex nR IIC Gc
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)
Electrical Data	
Ex version	Ex e & Ex d & Ex nR & Ex ta
Ambient Conditions	
Ambient temperature	-60 °C ... +130 °C
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP

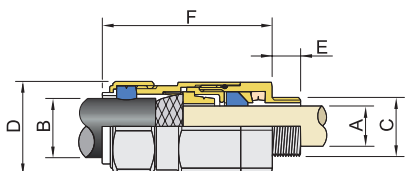
E10

Technical Data

Mechanical Data

Material	Stainless steel
Sealing material	SOLO LSF
Armouring type	All armouring
Construction type	BS 6121, IEC/EN 62444

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = Inner sheath B = Outer sheath
 C = Thread size D = Width across corners
 D = Width across flats E = Thread length
 F = Protrusion length

You can find all the dimensions online at r-stahl.com



- Cable entry with multi-functional holder for different types of armour
- Compensating displacement seal (CDS), flood seal with integral protection, controlled outer load retention seal
- EMC-tested, worldwide certification in accordance with IECEx, ATEX, TR CU, UL and cCSAus

WebCode **T3CDSA**



T3CDS series metal Ex d and Ex e cable entries are suitable for all types of armoured cables, i.e. for SWA, braid- and tape-type steel and aluminium armouring. They feature a multi-functional holder for the armouring and various seals. They are also designed to prevent cold flow and are EMC-tested. Their auxiliary functions and the sequential, three-stage installation offer increased safety and reduce the amount of time, the costs and the risks involved in installation.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table													
Thread standard		metric											
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Protrusion length	Grooved cone	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg		
20	M20	6.5 ... 13.9 mm	12.5 ... 20.9 mm	30.5 mm	76.2 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	246561	10	0.280		
20s/16	M20	3.1 ... 8.6 mm	6.1 ... 13.1 mm	24 mm	78.7 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC36	246560	10	0.200		
25	M25	11.1 ... 19.9 mm	18.2 ... 26.2 mm	37.5 mm	88.7 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	246562	10	0.440		
25s	M25	11.1 ... 19.9 mm	14 ... 22 mm	37.5 mm	88.8 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	251726	10	0.440		
32	M32	17 ... 26.2 mm	23.7 ... 33.9 mm	46 mm	90.7 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	246563	10	0.630		
40	M40	22 ... 32.1 mm	27.9 ... 40.4 mm	55 mm	93.2 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	246564	10	0.910		
50	M50	35.6 ... 44 mm	40.4 ... 53 mm	70.1 mm	105.8 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	246566	10	1.600		
50s	M50	29.5 ... 38.1 mm	35.2 ... 46.7 mm	60 mm	100.7 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	246565	10	1.120		
63	M63	47.2 ... 55.9 mm	54.6 ... 65.8 mm	80 mm	105.4 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC25	246568	10	1.780		
63s	M63	40.1 ... 49.9 mm	45.6 ... 59.4 mm	75 mm	102.5 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC23	246567	10	1.730		
75	M75	59.1 ... 67.9 mm	66.7 ... 78.4 mm	100 mm	120.3 mm	0.6 ... 1.6 mm	2.5 ... 3 mm	PVC30	246570	10	3.330		
75s	M75	52.8 ... 61.9 mm	59 ... 72 mm	90 mm	110.6 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC28	246569	10	2.570		

E10

Selection Table

Thread standard		NPT									
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Protrusion length	Grooved cone	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
20	NPT1/2	6.5 ... 13.9 mm	12.5 ... 20.9 mm	30.5 mm	76.2 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	246572	10	0.280
20s/16	NPT1/2	3.1 ... 8.6 mm	6.1 ... 13.1 mm	24 mm	78.7 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC36	246571	10	0.200
25	NPT3/4	11.1 ... 19.9 mm	18.2 ... 26.2 mm	37.5 mm	88.7 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	246573	10	0.440
25s	NPT3/4	11.1 ... 19.9 mm	14 ... 22 mm	37.5 mm	88.8 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	251727	10	0.440
32	NPT1	17 ... 26.2 mm	23.7 ... 33.9 mm	46 mm	90.7 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	246574	10	0.630
40	NPT1-1/4	22 ... 32.1 mm	27.9 ... 40.4 mm	55 mm	93.2 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	246575	10	0.910
50	NPT2	35.6 ... 44 mm	40.4 ... 53 mm	70.1 mm	105.8 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	246577	10	1.600
50s	NPT1-1/2	29.5 ... 38.1 mm	35.2 ... 46.7 mm	60 mm	100.7 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	246576	10	1.120

Grooved cone: for cables with braid- or tape-type armouring
Stepped cone: for cables with wire armouring (SWA)

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection IECEx 2	Ex e Gb
Gas explosion protection ATEX	Ⓜ II 2 G Ex d IIC Gb
Gas explosion protection ATEX 2	Ⓜ II 2 G Ex e Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X 2 Ex nR IIC Gc X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓜ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Firedamp protection IECEx	Ex d I Mb
Firedamp protection IECEx 2	Ex e I Mb
Firedamp protection ATEX	Ⓜ I M2 Ex d I Mb
Firedamp protection ATEX 2	Ⓜ I M2 Ex e I Mb
Restricted breathing IECEx	Ex nR IIC Gc
Restricted breathing ATEX	Ⓜ II 3 G Ex nR IIC Gc
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

Electrical Data

Ex version	Ex e & Ex d & Ex nR & Ex ta
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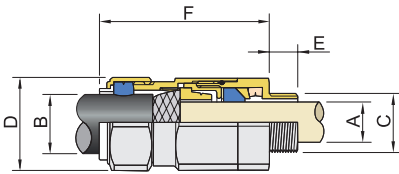
Ambient Conditions

Ambient temperature	-60 °C ... +130 °C
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Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass
Sealing material	SOLO LSF
Construction type	BS 6121, IEC/EN 62444

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



- A = Inner sheath
- B = Outer sheath
- C = Thread size
- D = Width across corners
- D = Width across flats
- E = Thread length
- F = Protrusion length

You can find all the dimensions online at r-stahl.com



- Ex d and Ex e cable entry for all armoured cables: SWA, braid- and tape-type steel or aluminium armouring
- Sealing: Explosion-protected seal with compound, controlled outer load retention seal and flood seal with integral protection
- Worldwide certification in accordance with IECEx, ATEX, UL and cCSAus, EMC-tested

WebCode **PX2KA**



PX2K series metal Ex d and Ex e barrier cable entries are suitable for all types of armoured cables, i.e. for SWA, braid- and tape-type steel and aluminium armouring. They are equipped with a compound barrier. They feature a multi-functional holder for the armouring and various seals. They are also EMC-tested.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table

Thread standard		metric									
Gland size	Thread size	Inner sheath	Max. number of cores	Outer sheath	Width across flats	Grooved cone	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
20	M20	12.6 mm	11	12.5 ... 20.9 mm	30.5 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	109428	10	0.240
20s	M20	11.7 mm	11	9.5 ... 15.9 mm	30.5 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC06	109427	10	0.230
20s/16	M20	11.7 mm	11	6.1 ... 13.1 mm	30.5 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC06	109426	10	0.240
25	M25	17.5 mm	21	18.2 ... 26.2 mm	37.5 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	243533	10	0.370
25s	M25	17.5 mm	21	14 ... 22 mm	37.5 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	243532	10	0.370
32	M32	23.6 mm	38	23.7 ... 33.9 mm	46 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	109430	10	0.570
40	M40	30 mm	59	27.9 ... 40.4 mm	55 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	109431	10	0.800
50	M50	41 mm	89	40.4 ... 53 mm	70 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	109433	10	1.190
50s	M50	36.6 mm	89	35.2 ... 46.7 mm	60 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	109432	10	0.900
63	M63	53.7 mm	115	54.6 ... 65.9 mm	80 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC25	109435	10	1.410
63s	M63	47.9 mm	115	45.6 ... 59.4 mm	75 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC23	109434	10	1.390
75	M75	64.2 mm	140	66.7 ... 78.4 mm	100 mm	0.6 ... 1.6 mm	2.5 ... 3 mm	PVC30	109437	10	2.540
75s	M75	59.9 mm	140	59 ... 72 mm	90 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC28	109436	10	2.090

E10

Cable Glands Ex e & Ex d & Ex nR & Ex ta

Series PX2K for all Armouring without Lead Sheath, Compound



Selection Table											
Thread standard		NPT									
Gland size	Thread size	Inner sheath	Max. number of cores	Outer sheath	Width across flats	Grooved cone	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
20	NPT1/2	12.6 mm	11	12.5 ... 20.9 mm	30.5 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	246361	10	0.240
20s/16	NPT1/2	11.7 mm	11	6.1 ... 13.1 mm	30.5 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC06	246360	10	0.240
25	NPT3/4	17.5 mm	21	18.2 ... 26.2 mm	37.5 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	246362	10	0.370
32	NPT1	23.6 mm	38	23.7 ... 33.9 mm	46 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	246363	10	0.570
40	NPT1-1/4	30 mm	59	27.9 ... 40.4 mm	55 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	246364	10	0.800
50	NPT2	41 mm	89	40.4 ... 53 mm	70 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	246366	10	1.190
50s	NPT1-1/2	36.6 mm	89	35.2 ... 46.7 mm	60 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	246365	10	0.900
63	NPT2-1/2	53.7 mm	115	54.6 ... 65.9 mm	80 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC25	246368	10	1.410

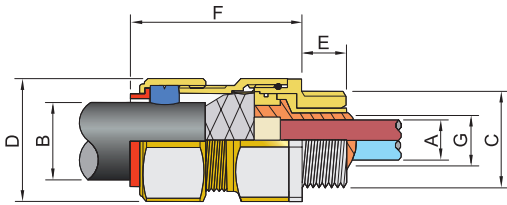
Inner sheath (cable dimension A) refers to the maximum diameter over the conductors after removal of the inner cable sheath.

Grooved cone: for cables with braid- or tape-type armouring
Stepped cone: for cables with wire armouring (SWA)

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection IECEx 2	Ex e Gb
Gas explosion protection ATEX	Ⓜ II 2 G Ex d IIC Gb
Gas explosion protection ATEX 2	Ⓜ II 2 G Ex e Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X 2 Ex nR IIC Gc X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓜ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Firedamp protection IECEx	Ex d I Mb
Firedamp protection IECEx 2	Ex e I Mb
Firedamp protection ATEX	Ⓜ I M2 Ex d I Mb
Firedamp protection ATEX 2	Ⓜ I M2 Ex e I Mb
Restricted breathing IECEx	Ex nR IIC Gc
Restricted breathing ATEX	Ⓜ II 3 G Ex nR IIC Gc
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)
Electrical Data	
Ex version	Ex e & Ex d & Ex nR & Ex ta
Ambient Conditions	
Ambient temperature	-60 °C ... +85 °C
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass
Sealing material	SOLO LSF
Armouring type	All armouring
Construction type	BS 6121, IEC/EN 62444

E10

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = Max. inner sheath
 G = Inner conduit diameter max. B = Outer sheath
 C = Thread size D = Width across corners
 D = Width across flats E = Thread length
 F = Protrusion length

You can find all the dimensions online at r-stahl.com

Cable Glands Ex e & Ex d & Ex nR & Ex ta

Series PX2K REX for all Armouring without Lead Sheath, RapidEx



- Greater reliability: Flood seal with integral protection, controlled outer load retention seal and over-rotation protection
- "RapidEx" compound barrier for easy installation and greater reliability
- Worldwide certification in accordance with IECEx, ATEX and cCSAus, EMC-tested

WebCode **PX2KB**



PX2K REX series metal Ex d and Ex e barrier cable entries are suitable for cables with SWA, braid- and tape-type steel and aluminium armouring. They are sealed by means of a liquid compound barrier ("RapidEx"), which reduces the amount of time, the costs and the risks involved in installation and affords increased reliability. They feature a multi-functional holder for the armouring and various seals. They are also EMC-tested.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table											
Thread standard		metric									
Gland size	Thread size	Inner sheath	Max. number of cores	Outer sheath	Width across flats	Grooved cone	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
20	M20	12.6 mm	11	12.5 ... 20.9 mm	30.5 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	246649	10	0.240
20s/16	M20	11.7 mm	11	6.1 ... 13.1 mm	30.5 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC06	246648	10	0.240
25	M25	17.5 mm	21	18.2 ... 26.2 mm	37.5 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	246650	10	0.370
32	M32	23.6 mm	38	23.7 ... 33.9 mm	46 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	246651	10	0.570
40	M40	30 mm	59	27.9 ... 40.4 mm	55 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	246652	10	0.800
50	M50	41 mm	89	40.4 ... 53 mm	70 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	246654	10	1.190
50s	M50	36.6 mm	89	35.2 ... 46.7 mm	60 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	246653	10	0.900
63	M63	53.7 mm	115	54.6 ... 65.8 mm	80 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC25	246656	10	1.410
63s	M63	47.9 mm	115	45.6 ... 59.4 mm	75 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC23	246655	10	1.390
75	M75	64.2 mm	140	66.7 ... 78.4 mm	100 mm	0.6 ... 1.6 mm	2.5 ... 3 mm	PVC30	246658	10	2.540
75s	M75	59.9 mm	140	59 ... 72 mm	90 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC28	246657	10	2.090
Thread standard		NPT									
Gland size	Thread size	Inner sheath	Max. number of cores	Outer sheath	Width across flats	Grooved cone	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
20	NPT1/2	12.6 mm	11	12.5 ... 20.9 mm	30.5 mm	0.4 ... 1 mm	0.8 ... 1.25 mm	PVC06	246660	10	0.240
20s/16	NPT1/2	11.7 mm	11	6.1 ... 13.1 mm	30.5 mm	0.3 ... 1 mm	0.8 ... 1.25 mm	PVC06	246659	10	0.240

E10

Selection Table

Thread standard		NPT									
Gland size	Thread size	Inner sheath	Max. number of cores	Outer sheath	Width across flats	Grooved cone	Stepped cone	PVC-shroud	Art. No.	PS	Weight kg
25	NPT3/4	17.5 mm	21	18.2 ... 26.2 mm	37.5 mm	0.4 ... 1.2 mm	1.25 ... 1.6 mm	PVC09	246661	10	0.370
32	NPT1	23.6 mm	38	23.7 ... 33.9 mm	46 mm	0.4 ... 1.2 mm	1.6 ... 2 mm	PVC11	246662	10	0.570
40	NPT1-1/4	30 mm	59	27.9 ... 40.4 mm	55 mm	0.4 ... 1.6 mm	1.6 ... 2 mm	PVC15	246663	10	0.800
50	NPT2	41 mm	89	40.4 ... 53 mm	70 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC21	246665	10	1.190
50s	NPT1-1/2	36.6 mm	89	35.2 ... 46.7 mm	60 mm	0.4 ... 1.6 mm	2 ... 2.5 mm	PVC18	246664	10	0.900
63	NPT2-1/2	53.7 mm	115	54.6 ... 65.8 mm	80 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC25	246667	10	1.410
63s	NPT2	47.9 mm	115	45.6 ... 59.4 mm	75 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC23	246666	10	1.390
75	NPT3	64.2 mm	140	66.7 ... 78.4 mm	100 mm	0.6 ... 1.6 mm	2.5 ... 3 mm	PVC30	246669	10	2.540
75s	NPT2-1/2	59.9 mm	140	59 ... 72 mm	90 mm	0.6 ... 1.6 mm	2 ... 2.5 mm	PVC28	246668	10	2.090

Inner sheath (cable dimension A) refers to the maximum diameter over the conductors after removal of the inner cable sheath.

Grooved cone: for cables with braid- or lape-type armouring
Stepped cone: for cables with wire armouring (SWA)

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection IECEx 2	Ex e Gb
Gas explosion protection ATEX	Ⓜ II 2 G Ex d IIC Gb
Gas explosion protection ATEX 2	Ⓜ II 2 G Ex e Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X 2 Ex nR IIC Gc X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓜ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Firedamp protection IECEx	Ex d I Mb
Firedamp protection IECEx 2	Ex e I Mb
Firedamp protection ATEX	Ⓜ I M2 Ex d I Mb
Firedamp protection ATEX 2	Ⓜ I M2 Ex e I Mb
Restricted breathing IECEx	Ex nR IIC Gc
Restricted breathing ATEX	Ⓜ II 3 G Ex nR IIC Gc
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

Electrical Data

Ex version	Ex e & Ex d & Ex nR & Ex ta
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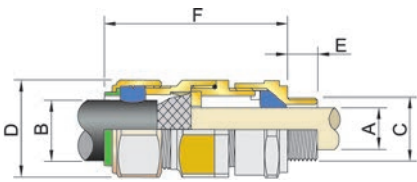
Ambient Conditions

Ambient temperature	-60 °C ... +85 °C
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Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass
Sealing material	SOLO LSF
Armouring type	All armouring
Construction type	BS 6121, IEC/EN 62444

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



- A = Max. inner sheath
- G = Inner conduit diameter max. B = Outer sheath
- C = Thread size D = Width across corners
- D = Width across flats E = Thread length
- F = Protrusion length

You can find all the dimensions online at r-stahl.com



- Cable entry for unarmoured cables and cables with wire-braid armouring
- Designed to prevent cold flow
- Worldwide certification in accordance with IECEx, ATEX, UL and cCSAus

WebCode **PXSS2KA**



PXSS2K series metal Ex d and Ex e barrier cable entries are suitable for unarmoured cables and cables with wire-braid armouring. They are equipped with a compound barrier. They feature a displacement seal for the outer cable sheath coupled with a double flood seal with integral protection.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table

Thread standard		metric								
Gland size	Thread size	Inner sheath	Inner conduit diameter max.	Max. number of cores	Outer sheath	Width across flats	PVC-shroud	Art. No.	PS	Weight kg
20	M20	12.6 mm	12.9 mm	11	6.5 ... 14 mm	30 mm	PVC06	109441	10	0.200
20s	M20	11.7 mm	11.7 mm	11	6.1 ... 11.7 mm	30 mm	PVC06	109440	10	0.200
20s/16	M20	8.6 mm	8.6 mm	11	3.1 ... 8.6 mm	30 mm	PVC06	109439	10	0.200
25	M25	17.5 mm	17.9 mm	21	11.1 ... 20 mm	36 mm	PVC09	109442	10	0.330
32	M32	23.6 mm	23.6 mm	38	17 ... 26.3 mm	41 mm	PVC10	109443	10	0.390
40	M40	30 mm	30.3 mm	59	22 ... 32.1 mm	50 mm	PVC13	109444	10	0.560
50	M50	41 mm	41.3 mm	89	35.6 ... 44 mm	60 mm	PVC18	109446	10	0.730
50s	M50	36.6 mm	36.9 mm	89	29.5 ... 38.2 mm	55 mm	PVC15	109445	10	0.660
63	M63	53.7 mm	54 mm	115	47.2 ... 55.9 mm	75 mm	PVC23	109448	10	1.060
63s	M63	47.9 mm	48.4 mm	115	40.1 ... 49.9 mm	70.1 mm	PVC21	109447	10	1.070
75	M75	64.3 mm	64.2 mm	140	59.1 ... 67.9 mm	85 mm	PVC27	109450	10	1.300
75s	M75	59.9 mm	60.2 mm	140	52.8 ... 61.9 mm	80 mm	PVC25	109449	10	1.300
Thread standard		NPT								
Gland size	Thread size	Inner sheath	Inner conduit diameter max.	Max. number of cores	Outer sheath	Width across flats	PVC-shroud	Art. No.	PS	Weight kg
20	NPT1/2	12.6 mm	12.9 mm	11	6.5 ... 14 mm	30 mm	PVC06	246337	10	0.200
20s/16	NPT1/2	8.6 mm	8.6 mm	11	3.1 ... 8.6 mm	30 mm	PVC06	246336	10	0.200
25	NPT3/4	17.5 mm	17.9 mm	21	11.1 ... 20 mm	36 mm	PVC09	246338	10	0.330
32	NPT1	23.6 mm	23.9 mm	38	17 ... 26.3 mm	41 mm	PVC10	246339	10	0.390
40	NPT1-1/4	30 mm	30.3 mm	59	22 ... 32.1 mm	50 mm	PVC13	246340	10	0.560

Cable Glands Ex e & Ex d & Ex nR & Ex ta

Series PXSS2K for Unarmoured Cable, Compound

STAHL

Selection Table

Thread standard		NPT							Art. No.	PS	Weight kg
Gland size	Thread size	Inner sheath	Inner conduit diameter max.	Max. number of cores	Outer sheath	Width across flats	PVC-shroud				
50	NPT2	41 mm	41.3 mm	89	35.6 ... 44 mm	60 mm	PVC18	246342	10	0.730	
50s	NPT1-1/2	36.6 mm	36.9 mm	89	29.5 ... 38.2 mm	55 mm	PVC15	246341	10	0.660	
63	NPT2-1/2	53.7 mm	54 mm	115	47.2 ... 55.9 mm	75 mm	PVC23	246344	10	1.060	

Inner sheath (cable dimension A) refers to the maximum diameter over the conductors after removal of the inner cable sheath.

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection IECEx 2	Ex e Gb
Gas explosion protection ATEX	Ⓜ II 2 G Ex d IIC Gb
Gas explosion protection ATEX 2	Ⓜ II 2 G Ex e Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X 2 Ex nR IIC Gc X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓜ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Firedamp protection IECEx	Ex d I Mb
Firedamp protection IECEx 2	Ex e I Mb
Firedamp protection ATEX	Ⓜ I M2 Ex d I Mb
Firedamp protection ATEX 2	Ⓜ I M2 Ex e I Mb
Restricted breathing IECEx	Ex nR IIC Gc
Restricted breathing ATEX	Ⓜ II 3 G Ex nR IIC Gc
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

Electrical Data

Ex version	Ex e & Ex d & Ex nR & Ex ta
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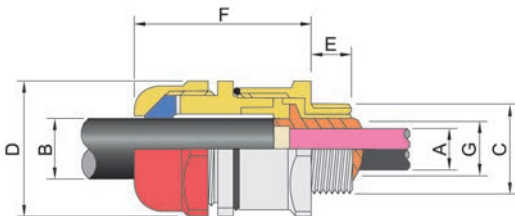
Ambient Conditions

Ambient temperature	-60 °C ... +85 °C
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Mechanical Data

Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass
Sealing material	SOLO LSF
Armouring type	Unarmoured cable types
Construction type	BS 6121, IEC/EN 62444

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = Max. inner sheath
 G = Inner conduit diameter max. B = Outer sheath
 C = Thread size D = Width across corners
 D = Width across flats E = Thread length
 F = Protrusion length

E10



- "RapidEx" compound barrier for easy installation and greater reliability
- Sealing for the outer cable sheath provided by an explosion-protected displacement seal
- Worldwide certification in accordance with IECEx, ATEX and cCSAus

WebCode **PXSS2KB**



PXSS2K REX series metal Ex d and Ex e barrier cable entries are suitable for unarmoured cables and cables with wire-braid armouring. They are sealed by means of a liquid compound barrier ("RapidEx"), which reduces the amount of time, the costs and the risks involved in installation and affords increased reliability. They feature a displacement seal for the outer cable sheath coupled with a double flood seal with integral protection.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table

Thread standard		metric							Art. No.	PS	Weight kg
Gland size	Thread size	Inner sheath	Max. number of cores	Outer sheath	Width across flats	PVC-shroud					
20	M20	12.6 mm	11	6.5 ... 14 mm	30 mm	PVC06	246605	10	0.200		
20s/16	M20	8.6 mm	11	3.1 ... 8.6 mm	30 mm	PVC06	246604	10	0.200		
25	M25	17.5 mm	21	11.1 ... 20 mm	36 mm	PVC09	246606	10	0.330		
32	M32	23.6 mm	38	17 ... 26.3 mm	41 mm	PVC10	246607	10	0.590		
40	M40	30 mm	59	22 ... 32.1 mm	50 mm	PVC13	246608	10	0.560		
50	M50	41 mm	89	35.6 ... 44 mm	60 mm	PVC18	246610	10	0.730		
50s	M50	36.6 mm	89	29.5 ... 38.2 mm	55 mm	PVC15	246609	10	0.660		
63	M63	53.7 mm	115	47.2 ... 55.9 mm	75 mm	PVC23	246612	10	1.060		
63s	M63	47.9 mm	115	40.1 ... 49.9 mm	70 mm	PVC21	246611	10	1.070		
75	M75	64.3 mm	140	59.1 ... 67.9 mm	85 mm	PVC27	246614	10	1.300		
75s	M75	59.9 mm	140	52.8 ... 61.9 mm	80 mm	PVC25	246613	10	1.300		

Thread standard		NPT							Art. No.	PS	Weight kg
Gland size	Thread size	Inner sheath	Max. number of cores	Outer sheath	Width across flats	PVC-shroud					
20	NPT1/2	12.6 mm	11	6.5 ... 14 mm	30 mm	PVC06	246616	10	0.200		
20s/16	NPT1/2	8.6 mm	11	3.1 ... 8.6 mm	30 mm	PVC06	246615	10	0.200		
25	NPT3/4	17.5 mm	21	11.1 ... 20 mm	36 mm	PVC09	246617	10	0.330		
32	NPT1	23.6 mm	38	17 ... 26.3 mm	41 mm	PVC10	246618	10	0.590		
40	NPT1-1/4	30 mm	59	22 ... 32.1 mm	50 mm	PVC13	246619	10	0.560		
50	NPT2	41 mm	89	35.6 ... 44 mm	60 mm	PVC18	246621	10	0.730		

Cable Glands Ex e & Ex d & Ex nR & Ex ta

Series PXSS2K REX for Unarmoured Cable, RapidEx

STAHL

Selection Table

Thread standard		NPT					Art. No.	PS	Weight kg
Gland size	Thread size	Inner sheath	Max. number of cores	Outer sheath	Width across flats	PVC-shroud			
50s	NPT1-1/2	36.6 mm	89	29.5 ... 38.2 mm	55 mm	PVC15	246620	10	0.660
63	NPT2-1/2	53.7 mm	115	47.2 ... 55.9 mm	75 mm	PVC23	246623	10	1.060
63s	NPT2	47.9 mm	115	40.1 ... 49.9 mm	70 mm	PVC21	246622	10	1.070
75	NPT3	64.3 mm	140	59.1 ... 67.9 mm	85 mm	PVC27	246625	10	1.300
75s	NPT2-1/2	59.9 mm	140	52.8 ... 61.9 mm	80 mm	PVC25	246624	10	1.300

Inner sheath (cable dimension A) refers to the maximum diameter over the conductors after removal of the inner cable sheath.

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection IECEx 2	Ex e Gb
Gas explosion protection ATEX	Ⓜ II 2 G Ex d IIC Gb
Gas explosion protection ATEX 2	Ⓜ II 2 G Ex e Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X 2 Ex nR IIC Gc X

Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓜ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Firedamp protection IECEx	Ex d I Mb
Firedamp protection IECEx 2	Ex e I Mb
Firedamp protection ATEX	Ⓜ I M2 Ex d I Mb
Firedamp protection ATEX 2	Ⓜ I M2 Ex e I Mb
Restricted breathing IECEx	Ex nR IIC Gc
Restricted breathing ATEX	Ⓜ II 3 G Ex nR IIC Gc

Note
The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

Electrical Data

Ex version	Ex e & Ex d & Ex nR & Ex ta
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Ambient Conditions

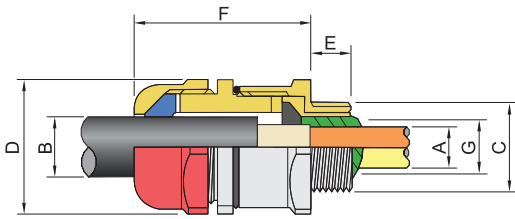
Ambient temperature	-60 °C ... +85 °C
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Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass
Sealing material	SOLO LSF
Armouring type	Unarmoured cable types
Construction type	BS 6121, IEC/EN 62444

E10

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = Max. inner sheath
 G = Inner conduit diameter max. B = Outer sheath
 C = Thread size D = Width across corners
 D = Width across flats E = Thread length
 F = Protrusion length

You can find all the dimensions online at r-stahl.com



- Designed for use in North America
- Version with NPT thread
- Operating temperature range: -60 °C to +110 °C
- Class I Zone 1, 21 AEx e and Zone 2, 22 Class I Div. 2 groups ABCD
- CEC Class I Zone 1 Ex e and Class I Div. 2 groups ABCD
- Worldwide certification, IECEx, ATEX and cCSAus

WebCode **TCA**



There is a removable insert inside the cable glands which enables an expanded cable diameter range. An integrated connection thread seal is included in the standard version. They have worldwide certification according to cCSAus, IECEx and ATEX.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table								
Thread standard		NPT						
Thread size	Inner sheath	Width across flats	Width across corners	Protrusion length	PVC-shroud	Art. No.	PS	Weight kg
NPT1	17 ... 26.3 mm	46 mm	50.6 mm	41.9 mm	PVC11	254297▲	10	0.110
NPT1/2	3.2 ... 7 mm	30.5 mm	33.6 mm	30.5 mm	PVC05	254294▲	10	0.050
	6.5 ... 14 mm	30.5 mm	33.6 mm	30.5 mm	PVC05	254295▲	10	0.100
NPT1-1/2	31 ... 38.2 mm	60 mm	66 mm	41.9 mm	PVC21	254299▲	10	0.170
NPT1-1/4	23.5 ... 32.2 mm	52 mm	57.2 mm	41.9 mm	PVC13	254298▲	10	0.140
NPT2	35.6 ... 44.1 mm	70 mm	75.6 mm	41.4 mm	PVC21	254300▲	10	0.240
	41.5 ... 50.1 mm	70 mm	77 mm	44.2 mm	PVC28	254311▲	10	0.240
NPT2-1/2	47.2 ... 56 mm	90 mm	97.2 mm	44.2 mm	PVC28	254312▲	10	0.380
	54 ... 62 mm	90 mm	99 mm	45.5 mm	PVC31	254313	10	0.380
NPT3	61.1 ... 68 mm	110 mm	118.8 mm	45.5 mm	PVC31	254314	10	0.670
NPT3/4	11.1 ... 20 mm	37.5 mm	41.3 mm	31.5 mm	PVC09	254296▲	10	0.050

Inner sheath: max. possible cable dia. range. The cable diameter range can vary when the reducer seal insert is removed or added (reducer seal insert included with delivery).

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection IECEx 2	Ex e IIC Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex d IIC Gb
Gas explosion protection ATEX 2	Ⓔ II 2 G Ex e IIC Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X

E10

Technical Data

Explosion Protection

Dust explosion protection ATEX II 1 D Ex ta IIIC Da

Dust explosion protection EAC Ex ta IIIC Da X

Note The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

Electrical Data

Ex version Ex e & Ex d & Ex ta

Ambient Conditions

Ambient temperature -60 °C ... +110 °C

Mechanical Data

Degree of protection (IP) IP66

Type of protection note IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP

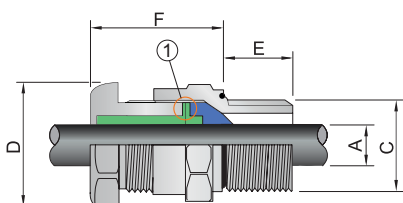
Material Nickel-plated brass

Sealing material SOLO LSF

Armouring type Unarmoured TRAY cables

Construction type BS 6121, IEC/EN 62444

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



1 = removable reduction sealing insert

A = Inner sheath C = Thread size

D = Width across corners D = Width across flats

E = Thread length F = Protrusion length

You can find all the dimensions online at r-stahl.com



- Designed for use in North America
- Version with NPT thread and metric thread
- Operating temperature range: -60 °C ... +110 °C
- Class I Zone 1, 21 und Zone 2, 22
- Class I Zone 1 Ex e and Class I Div. 2 groups ABCD
- Worldwide certification, UL, cCSAus, IECEx and ATEX

WebCode **TMCA**



The cable glands have a sequential design and, therefore, do not need to be dismantled for installation. A 360° rotary spring establishes secure earthing. They have worldwide certification according to UL, cCSAus, IECEx and ATEX.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table									
Thread standard							metric		
Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	PVC-shroud	Art. No.	PS	Weight kg
M20	8.7 ... 12.7 mm	9 ... 13.9 mm	30.5 mm	33.6 mm	46.5 mm	PVC06	243563▲	10	0.520
	13 ... 17 mm	11.1 ... 20 mm	36 mm	39.6 mm	52.2 mm	PVC09	243564▲	10	0.520
M25	15 ... 23.3 mm	17 ... 26.3 mm	41 mm	45.1 mm	53.1 mm	PVC10	243565▲	10	0.520
M32	19.7 ... 29.2 mm	22 ... 32.2 mm	50 mm	55 mm	56.9 mm	PVC13	243566▲	10	0.520
M40	27.5 ... 35.2 mm	29.5 ... 38.2 mm	55 mm	60.5 mm	56.3 mm	PVC15	243567▲	10	0.590
M50	33.5 ... 41.1 mm	35.6 ... 44.1 mm	60 mm	66 mm	58.6 mm	PVC18	243568▲	10	0.690
Thread standard							NPT		
Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	PVC-shroud	Art. No.	PS	Weight kg
NPT1	19.7 ... 29.2 mm	22 ... 32.2 mm	50 mm	55 mm	56.9 mm	PVC13	254319▲	10	0.500
NPT1/2	8.7 ... 12.7 mm	9 ... 13.9 mm	30.5 mm	33.6 mm	46.5 mm	PVC06	254316▲	10	0.220
	13 ... 17 mm	11.1 ... 20 mm	36 mm	39.6 mm	52.2 mm	PVC09	254317▲	10	0.280
NPT1-1/2	33.5 ... 41.1 mm	35.6 ... 44.1 mm	60 mm	66 mm	58.6 mm	PVC18	254321▲	10	0.690
NPT1-1/4	27.5 ... 35.2 mm	29.5 ... 38.2 mm	55 mm	60.5 mm	56.3 mm	PVC15	254320▲	10	0.590
NPT2	38.3 ... 47.1 mm	40.1 ... 50.1 mm	70 mm	77 mm	63.9 mm	PVC21	254322▲	10	1.200
	45 ... 53 mm	47.2 ... 56 mm	75 mm	82.5 mm	63.2 mm	PVC23	254323▲	10	1.100
NPT2-1/2	52.1 ... 58.9 mm	52.8 ... 62 mm	80 mm	88 mm	69.3 mm	PVC25	254324▲	10	1.700
	57.1 ... 64.6 mm	59.1 ... 68 mm	85 mm	93.5 mm	72 mm	PVC27	254325▲	10	1.600
NPT3	64.6 ... 75.3 mm	66.6 ... 79.4 mm	110 mm	121 mm	98.2 mm	LSF32	254326	10	3.500
NPT3-1/2	74 ... 88.5 mm	76 ... 97.2 mm	133,4 mm	146.7 mm	117.6 mm	LSF34	254327	10	6.700

E10

Selection Table

Thread standard		NPT					Art. No.	PS	Weight kg
Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Protrusion length	PVC-shroud			
NPT3/4	15 ... 23.3 mm	17 ... 26.3 mm	41 mm	45.1 mm	53.1 mm	PVC10	254318 ▲	10	0.330

Inner sheath: max. possible cable diameter range. The cable diameter range can vary when the armour stop is removed or added (armour stop included with delivery).

Technical Data

Explosion Protection

Gas explosion protection IECEx Ex e II

Gas explosion protection ATEX II 2 G Ex e II

Gas explosion protection EAC 1 Ex e IIC Gb X

Dust explosion protection ATEX II 2 D Ex tD A21

Dust explosion protection EAC Ex ta IIIC Da X

Note The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

Electrical Data

Ex version Ex e

Ambient Conditions

Ambient temperature -60 °C ... +110 °C

Mechanical Data

Degree of protection (IP) IP66

Type of protection note Mounting in accordance with the specifications of the manufacturer, CMP

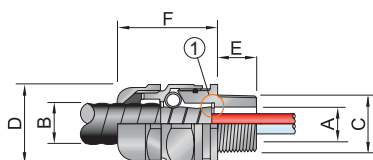
Material Nickel-plated brass

Sealing material SOLO LSF

Armouring type TECK-armoured cables

Construction type BS 6121, IEC/EN 62444

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



1 = removable armour stop

A = Inner sheath B = Outer sheath

C = Thread size D = Width across corners

D = Width across flats E = Thread length

F = Protrusion length

You can find all the dimensions online at r-stahl.com



- Designed for use in North America
- Ex e cable entry for all armoured cables: SWA, braid- and tape-type steel and aluminium armouring
- Safety provided by flood seal with integral protection and controlled outer load retention sea
- Class I Zone 1, 21 and Zone 2, 22 Class I Div. 2 groups ABCD
- Worldwide certification: UL, cCSAus, ATEX and IECEx

WebCode **C2KXA**



Special version for the North American market. C2KX series metal Ex e cable entries are suitable for all types of armoured cables, i.e. for SWA, braid- and tape-type steel and aluminium armouring. They feature a multi-functional holder for the armouring and various seals. They are also EMC-tested. They have worldwide certification according to UL, cCSAus, IECEx and ATEX.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table												
Thread standard		metric							PVC-shroud	Art. No.	PS	Weight kg
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Grooved cone	Stepped cone					
20	M20	14 mm	12.4 ... 20.8 mm	30.5 mm	33.6 mm	0.4 ... 1 mm	0.4 ... 1 mm	PVC06	243583▲	10	0.520	
20s	M20	11.7 mm	9.4 ... 16 mm	30.5 mm	33.5 mm	0.3 ... 1 mm	0.3 ... 1 mm	PVC06	243582▲	10	0.520	
20s/16	M20	8.6 mm	6.1 ... 13.2 mm	30.5 mm	33.5 mm	0.3 ... 1 mm	0.3 ... 1 mm	PVC06	243581▲	10	0.520	
25	M25	20.1 mm	18.3 ... 26.2 mm	37.5 mm	41.1 mm	0.4 ... 1.2 mm	0.4 ... 1.2 mm	PVC09	243584▲	10	0.520	
32	M32	25.9 mm	23.6 ... 34 mm	46 mm	50.5 mm	0.4 ... 1.2 mm	0.4 ... 1.2 mm	PVC11	243585▲	10	0.520	
40	M40	32.3 mm	27.9 ... 40.4 mm	55 mm	60.5 mm	0.4 ... 1.6 mm	0.4 ... 1.6 mm	PVC15	243586▲	10	0.750	
50	M50	44.2 mm	40.4 ... 53.1 mm	70.1 mm	77.2 mm	0.6 ... 1.6 mm	0.6 ... 1.6 mm	PVC21	243588▲	10	1.130	
50s	M50	38.1 mm	35.3 ... 46.7 mm	60 mm	66 mm	0.4 ... 1.6 mm	0.4 ... 1.6 mm	PVC18	243587▲	10	0.860	
63	M63	56.1 mm	54.6 ... 65.8 mm	80 mm	88.1 mm	0.6 ... 1.6 mm	0.6 ... 1.6 mm	PVC25	243590▲	10	1.340	
63s	M63	50 mm	45.7 ... 59.4 mm	75 mm	82.6 mm	0.6 ... 1.6 mm	0.6 ... 1.6 mm	PVC23	243589▲	10	1.330	
75	M75	64.3 mm	66.8 ... 78.5 mm	100 mm	110 mm	0.6 ... 1.6 mm	0.6 ... 1.6 mm	PVC30	243592▲	10	2.480	
75s	M75	62 mm	58.9 ... 72.1 mm	90 mm	99.1 mm	0.6 ... 1.6 mm	0.6 ... 1.6 mm	PVC28	243591▲	10	2.020	

E10

Selection Table

Thread standard		NPT							Art. No.	PS	Weight kg
Gland size	Thread size	Inner sheath	Outer sheath	Width across flats	Width across corners	Grooved cone	Stepped cone	PVC-shroud			
20	NPT1/2	14 mm	12.4 ... 20.8 mm	30.5 mm	33.6 mm	0.4 ... 1 mm	0.4 ... 1 mm	PVC06	243571 ▲	10	0.520
20s	NPT1/2	11.7 mm	9.4 ... 16 mm	30.5 mm	33.5 mm	0.3 ... 1 mm	0.3 ... 1 mm	PVC06	243570 ▲	10	0.520
20s/16	NPT1/2	8.6 mm	6.1 ... 13.2 mm	30.5 mm	33.5 mm	0.3 ... 1 mm	0.3 ... 1 mm	PVC06	243569 ▲	10	0.520
25	NPT3/4	20.1 mm	18.3 ... 26.2 mm	37.5 mm	41.1 mm	0.4 ... 1.2 mm	0.4 ... 1.2 mm	PVC09	243572 ▲	10	0.520
32	NPT1	25.9 mm	23.6 ... 34 mm	46 mm	50.5 mm	0.4 ... 1.2 mm	0.4 ... 1.2 mm	PVC11	243573 ▲	10	0.520
40	NPT1-1/4	32.3 mm	27.9 ... 40.4 mm	55 mm	60.5 mm	0.4 ... 1.6 mm	0.4 ... 1.6 mm	PVC15	243574 ▲	10	0.750
50	NPT2	44.2 mm	40.4 ... 53.1 mm	70.1 mm	77.2 mm	0.6 ... 1.6 mm	0.6 ... 1.6 mm	PVC21	243576 ▲	10	1.130
50s	NPT1-1/2	38.1 mm	35.3 ... 46.7 mm	60 mm	66 mm	0.4 ... 1.6 mm	0.4 ... 1.6 mm	PVC18	243575 ▲	10	0.860
63	NPT2-1/2	56.1 mm	54.6 ... 65.8 mm	80 mm	88.1 mm	0.6 ... 1.6 mm	0.6 ... 1.6 mm	PVC25	243578 ▲	10	1.340
63s	NPT2	50 mm	45.7 ... 59.4 mm	75 mm	82.6 mm	0.6 ... 1.6 mm	0.6 ... 1.6 mm	PVC23	243577 ▲	10	1.330
75	NPT3	64.3 mm	66.8 ... 78.5 mm	100 mm	110 mm	0.6 ... 1.6 mm	0.6 ... 1.6 mm	PVC30	243580	10	2.480
75s	NPT2-1/2	62 mm	58.9 ... 72.1 mm	90 mm	99.1 mm	0.6 ... 1.6 mm	0.6 ... 1.6 mm	PVC28	243579 ▲	10	2.020

Grooved cone: for cables with braid- or tape-type armouring
Stepped cone: for cables with wire armouring (SWA)

Technical Data

Explosion Protection

Gas explosion protection IECEX	Ex e IIC Gb
Gas explosion protection ATEX	II 2 G Ex e IIC Gb
Gas explosion protection EAC	1 Ex e IIC Gb X 2 Ex nR IIC Gc X
Dust explosion protection IECEX	Ex ta IIIC Da
Dust explosion protection ATEX	III 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Restricted breathing ATEX	II 3 G Ex nR IIC Gc
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

Electrical Data

Ex version	Ex e & Ex nR & Ex ta
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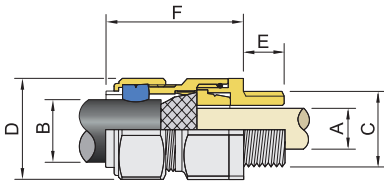
Ambient Conditions

Ambient temperature	-60 °C ... +130 °C
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Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP
Material	Nickel-plated brass
Sealing material	SOLO LSF
Armouring type	All armouring
Construction type	BS 6121, IEC/EN 62444

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = Max. inner sheath B = Outer sheath
C = Thread size D = Width across corners
D = Width across flats E = Thread length
F = Protrusion length

You can find all the dimensions online at r-stahl.com



- Ex e reducers made from glass fibre-reinforced polyamide
- Large selection of metric thread sizes

WebCode ACC1L



The metal Ex-d reducers enable the simple adaptation of thread sizes. There is a wide selection of different versions available. They have worldwide certification according to IECEx, ATEX und EAC/TR CU.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table

Version		Metric / metric				Design	Art. No.	PS	Weight kg
External thread	Internal thread	Thread length	Width across flats	Width across corners					
M20	M16	9 mm	24 mm	28 mm	A	109385	18	0.009	
M25	M20	10 mm	29 mm	33 mm	B	109384	18	0.007	
M32	M20	12 mm	36 mm	41 mm	B	109383	18	0.014	
	M25	12 mm	36 mm	41 mm	B	109382	18	0.011	
M40	M20	12 mm	46 mm	51 mm	B	109381	18	0.021	
	M25	12 mm	46 mm	51 mm	B	109380	18	0.023	
	M32	12 mm	46 mm	51 mm	B	109379	18	0.019	
M50	M25	14 mm	55 mm	61 mm	B	109377	18	0.001	
	M32	14 mm	55 mm	61 mm	B	109376	18	0.035	
	M40	14 mm	55 mm	61 mm	B	109375	18	0.024	
	M20	14 mm	55 mm	61 mm	B	109378	18	0.001	
M63	M20	15 mm	68 mm	75 mm	B	109374	18	0.001	
	M25	15 mm	68 mm	75 mm	B	109373	18	0.001	
	M40	15 mm	68 mm	75 mm	B	109371	18	0.046	
	M50	15 mm	68 mm	75 mm	B	109370	18	0.039	
	M32	15 mm	68 mm	75 mm	B	109372	18	0.046	

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex e II
Gas explosion protection ATEX	Ⓔ II 2 G Ex e II

Technical Data

Explosion Protection

Gas explosion protection EAC	Ex e II X
Dust explosion protection IECEx	Ex tD A21
Dust explosion protection ATEX	Ⓔ II 2 D Ex tD A21
Dust explosion protection EAC	Ex tD A21

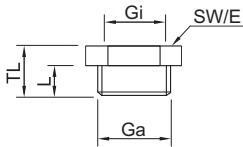
Ambient Conditions

Ambient temperature	-20 °C ... +70 °C
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Mechanical Data

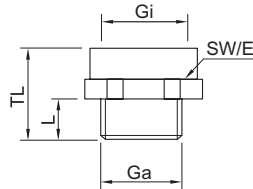
Degree of protection (IP)	IP66
Material	Polyamide
Colour	Black

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Design B

Ga = External thread Gi = Internal thread
 L = Thread length SW = Width across flats
 E = Width across corners TL = Length



Design A

Ga = External thread Gi = Internal thread
 L = Thread length SW = Width across flats
 E = Width across corners TL = Length

You can find all the dimensions online at r-stahl.com



- Ex d and Ex e metal reducers
- Large selection of thread types and sizes
- Operating temperature range: -60 °C ... +200 °C
- Worldwide certification, IECEx, ATEX, UL and cCSAus

WebCode **737DA**



The metal Ex-d reducers from the 737 series enable adaptation of the thread sizes and types. There is a wide selection of different versions available. They have worldwide certification according to IECEx, ATEX, UL and cCSAus.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table

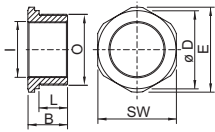
Material						
Nickel-plated brass						
External thread	Internal thread	Width across flats	Width across corners	Art. No.	PS	Weight kg
M20	M16	24 mm	26.4 mm	253003 ▲	18	0.053
M25	M20	30 mm	33 mm	253004 ▲	18	0.100
	NPT1/2	30 mm	33 mm	230070 ▲	18	0.049
M32	M20	37.6 mm	41.4 mm	253005 ▲	18	0.098
	M25	37.6 mm	41.4 mm	253006 ▲	18	0.100
	NPT3/4	37.6 mm	41.4 mm	230101 ▲	18	0.072
M40	M20	46 mm	50.6 mm	253007 ▲	18	1.000
	M25	46 mm	50.6 mm	253008 ▲	18	0.200
	M32	46 mm	50.6 mm	252970 ▲	18	0.265
	NPT1	46 mm	50.6 mm	230102 ▲	18	0.122
M50	M32	55 mm	60.5 mm	252971 ▲	18	0.175
	M40	55 mm	60.5 mm	252972 ▲	18	0.176
	NPT1-1/4	55 mm	60.5 mm	252973 ▲	18	0.150
M63	M40	70 mm	77 mm	252974 ▲	18	0.250
	M50	70 mm	77 mm	252975 ▲	18	0.130
	NPT1-1/2	70 mm	77 mm	252976 ▲	18	0.300
M75	M63	84 mm	92.4 mm	252977 ▲	18	0.203
	NPT2	80 mm	88 mm	252978 ▲	18	0.445

E10

Selection Table						
Material Nickel-plated brass						
External thread	Internal thread	Width across flats	Width across corners	Art. No.	PS	Weight kg
NPT1	M20	41 mm	45.1 mm	252989 ▲	18	0.209
	M25	41 mm	45.1 mm	252990 ▲	18	0.160
	NPT1/2	41 mm	45.1 mm	253010 ▲	18	0.100
	NPT3/4	41 mm	45.1 mm	253011 ▲	18	0.100
NPT1-1/2	M32	55 mm	60.5 mm	252991 ▲	18	0.100
	NPT1	55 mm	60.5 mm	253013 ▲	18	0.100
NPT1-1/4	NPT1	50 mm	55 mm	253012 ▲	18	0.200
NPT3/4	M20	31.5 mm	34.7 mm	252988 ▲	18	0.081
	NPT1/2	31.5 mm	34.7 mm	253009 ▲	18	0.050
Material Stainless steel						
External thread	Internal thread	Width across flats	Width across corners	Art. No.	PS	Weight kg
M20	M16	24 mm	26.4 mm	252979 ▲	18	1.900
M25	M20	30 mm	33 mm	252980 ▲	18	0.075
	NPT1/2	30 mm	33 mm	230103 ▲	18	1.000
M32	M25	37.6 mm	41.4 mm	252981 ▲	18	0.100
	NPT3/4	37.6 mm	41.4 mm	230104 ▲	18	0.100
M40	M32	46 mm	50.6 mm	252982 ▲	18	0.120
	NPT1	46 mm	50.6 mm	230105 ▲	18	0.200
M50	M32	55 mm	60.5 mm	252983 ▲	18	0.120
	M40	55 mm	60.5 mm	252984 ▲	18	0.100
	NPT1-1/4	55 mm	60.5 mm	252985 ▲	18	0.200
M63	NPT1-1/2	70 mm	77 mm	252986 ▲	18	0.300
M75	NPT2	80 mm	88 mm	252987 ▲	18	0.300

Technical Data	
Explosion Protection	
CSA gas certificate	CSA 1055233
Gas explosion protection IECEx	Ex e IIC Gb
Gas explosion protection IECEx 2	Ex d Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex e IIC Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X
Gas explosion protection ATEX 2	Ⓔ II 2 G Ex d Gb
Dust explosion protection ATEX	Ⓔ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)
Ambient Conditions	
Ambient temperature	-60 °C ... +200 °C
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



O = External thread I = Internal thread
 SW = Width across flats E = Width across corners
 B = Length L = Thread length

You can find all the dimensions online at r-stahl.com



- Metal Ex-d- and Ex-e adaptors
- Large selection of thread types and sizes
- Operating temperature range: -60 °C ... +200 °C
- Worldwide certification, IECEx, ATEX, UL and cCSAus

WebCode **737DB**



The metal Ex-d adaptors and reducers from the 737 series enable adaptation of the thread sizes and types. There is a wide selection of different versions available. They have worldwide certification according to IECEx, ATEX, UL and cCSAus.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table						
Material Nickel-plated brass						
External thread	Internal thread	Width across flats	Width across corners	Art. No.	PS	Weight kg
M16	M20	24 mm	26.4 mm	252965▲	18	0.050
M20	M25	30 mm	33 mm	252966▲	18	0.075
	NPT1/2	24 mm	26.4 mm	252992▲	18	0.050
	NPT3/4	31.5 mm	34.7 mm	252993▲	18	0.100
M25	M32	37.6 mm	41.4 mm	252967▲	18	0.075
	NPT3/4	30 mm	33 mm	252994▲	18	0.133
M32	M40	46 mm	50.6 mm	252968▲	18	0.100
	NPT1	41 mm	45.1 mm	252995▲	18	1.000
M40	M50	60 mm	66 mm	252969▲	18	0.200
NPT1/2	M20	27 mm	29.7 mm	252999▲	18	0.050
Material Stainless steel						
External thread	Internal thread	Width across flats	Width across corners	Art. No.	PS	Weight kg
M20	M25	30 mm	33 mm	252996▲	18	1.000
	NPT1/2	24 mm	26.4 mm	252997▲	18	0.055
M25	NPT3/4	30 mm	33 mm	225053▲	18	0.133
M32	NPT1	41 mm	45.1 mm	252998▲	18	0.100

E10

Technical Data

Explosion Protection

CSA gas certificate	CSA 1055233
Gas explosion protection IECEx	Ex d IIC Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex d IIC Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓔ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Firedamp protection IECEx	Ex d I Mb
Firedamp protection ATEX	Ⓔ I M2 Ex d I Mb
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

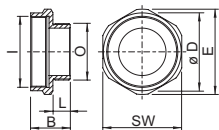
Ambient Conditions

Ambient temperature	-60 °C ... +200 °C
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Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



O = External thread I = Internal thread
 SW = Width across flats E = Width across corners
 B = Length L = Thread length

You can find all the dimensions online at r-stahl.com



- Ex e enlargements made from glass fibre-reinforced polyamide
- Large selection of metric thread sizes

WebCode **ACC1A**



The glass fibre-reinforced Ex e enlargements enable the simple adaptation of thread sizes. There is a wide selection of different versions available. They have worldwide certification according to IECEx, ATEX und EAC/TR CU.

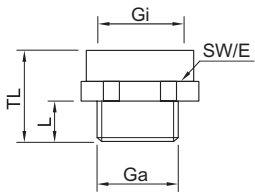
	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table							
Version		Metric / metric			Art. No.	PS	Weight kg
External thread	Internal thread	Thread length	Width across flats	Width across corners			
M16	M20	9 mm	24 mm	28 mm	109391	18	0.007
M20	M25	9 mm	29 mm	33 mm	109390	18	0.008
M25	M32	10 mm	36 mm	41 mm	109389	18	0.011
M32	M40	12 mm	46 mm	51 mm	109388	18	0.018
M40	M50	12 mm	55 mm	61 mm	109387	18	0.026
M50	M63	14 mm	68 mm	75 mm	109386	18	0.008

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e II
Gas explosion protection ATEX	Ⓔ II 2 G Ex e II
Gas explosion protection EAC	Ex e II X
Dust explosion protection IECEx	Ex tD A21
Dust explosion protection ATEX	Ⓔ II 2 D Ex tD A21
Dust explosion protection EAC	Ex tD A21
Ambient Conditions	
Ambient temperature	-20 °C ... +70 °C
Mechanical Data	
Degree of protection (IP)	IP66
Material	Polyamide
Colour	Black

E10

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



G_a = External thread G_i = Internal thread
 L = Thread length SW = Width across flats
 E = Width across corners TL = Length

You can find all the dimensions online at r-stahl.com



- Plastic stopping plugs for sealing open holes
- For thread sizes M16 to M63
- For Ex e enclosures

WebCode **8290A**



R. STAHL's 8290 series plastic stopping plugs can be used to seal unused holes in Ex e enclosures ("increased safety" type of protection). To ensure that they remain robust during use, they are designed to be impact resistant in accordance with IEC/EN 60079-0 and IEC/EN 60079-7 and are protected against working loose.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table									
Drive		Hexagon socket					Art. No.	PS	Weight kg
Thread size	Thread length	Width across flats	Width across corners	Width across flats hexagon socket	Packaging unit				
M16	11 mm	20 mm	22 mm	8 mm	100	143556▲	18	0.300	
M20	11 mm	24 mm	26 mm	10 mm	100	143543▲	18	0.500	
M25	10.5 mm	29 mm	31 mm	10 mm	100	143544▲	18	0.700	
M32	11.2 mm	36 mm	38 mm	10 mm	50	143562▲	18	0.600	
M40	14 mm	46 mm	53 mm	10 mm	30	143557▲	18	0.480	
M50	14 mm	55 mm	61 mm	10 mm	30	143558▲	18	0.780	
M63	14 mm	68 mm	75 mm	10 mm	30	143559▲	18	1.680	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex eb IIC Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex eb IIC Gb
Gas explosion protection EAC	1 Ex e II Gb U
Dust explosion protection IECEx	Ex tb IIIC Db
Dust explosion protection ATEX	Ⓔ II 2 D Ex tb IIIC Db
Dust explosion protection EAC	Ex tb IIIC Db U
Certificates	ATEX (PTB), Brazil (ULB), EAC (LPE), IECEx (PTB), Korea (KGS)
Ambient Conditions	
Ambient temperature	-60 °C ... +80 °C

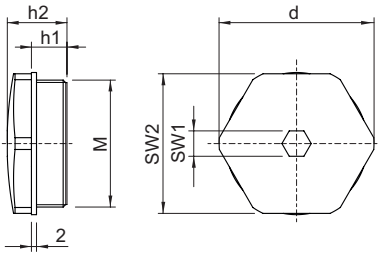
E10

Technical Data

Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	acc. to IEC/EN 60529
Material	Polyamide

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



M = Thread size d = Width across corners
 h1 = Thread length h2 = Dimension h2
 SW1 = Width across flats hexagon socket
 SW2 = Width across flats



- Ex d und Ex e metal stopping plugs
- Large selection of thread types and sizes
- Operating temperature range: -60 °C ... +200 °C
- Worldwide certification, IECEX, ATEX, UL and cCSAus

WebCode **747DA**



The metal Ex-d stopping plugs from the 747 series with a hexagon socket and without a projecting head enable temporary or long-term plugging of unused drilled holes. There is a wide selection of different thread sizes and types available. They have worldwide certification according to IECEX, ATEX, UL and cCSAus.

	ATEX / IECEX					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table							
Material		Nickel-plated brass					
Thread size	Outer diameter	Dimension b	Dimension d	Thread length	Art. No.	PS	Weight kg
NPT1	33.6 mm	15 mm	25 mm	25 mm	230108▲	18	0.150
NPT1/2	21.5 mm	6.4 mm	12 mm	19.9 mm	230106▲	18	0.100
NPT1-1/2	48.5 mm	15.9 mm	39 mm	26.1 mm	253015▲	18	0.150
NPT1-1/4	42.4 mm	15.4 mm	32 mm	25.6 mm	253014▲	18	1.000
NPT2	60.5 mm	16.7 mm	49 mm	26.9 mm	253016▲	18	1.000
NPT2-1/2	73.3 mm	29.7 mm	57 mm	39.9 mm	253017▲	18	0.100
NPT3/4	26.9 mm	6.4 mm	18 mm	20.2 mm	230107▲	18	0.125
Material		Stainless steel					
Thread size	Outer diameter	Dimension b	Dimension d	Thread length	Art. No.	PS	Weight kg
NPT1	33.6 mm	15 mm	25 mm	25 mm	230111▲	18	1.000
NPT1/2	21.5 mm	6.4 mm	12 mm	19.9 mm	230109▲	18	0.100
NPT1-1/2	48.5 mm	15.9 mm	39 mm	26.1 mm	253020▲	18	0.200
NPT1-1/4	42.4 mm	15.4 mm	32 mm	25.6 mm	253019▲	18	0.500
NPT2	60.5 mm	16.7 mm	49 mm	26.9 mm	253021▲	18	0.290
NPT2-1/2	73.3 mm	29.7 mm	57 mm	39.9 mm	253022	18	0.320
NPT3/4	26.9 mm	6.4 mm	18 mm	20.2 mm	230110▲	18	0.125

E10

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex e IIC Gb
Gas explosion protection IECEx 2	Ex d IIC Gb
Gas explosion protection ATEX	⊕ II 2 G Ex e IIC Gb
Gas explosion protection ATEX 2	⊕ II 2 G Ex d IIC Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	⊕ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

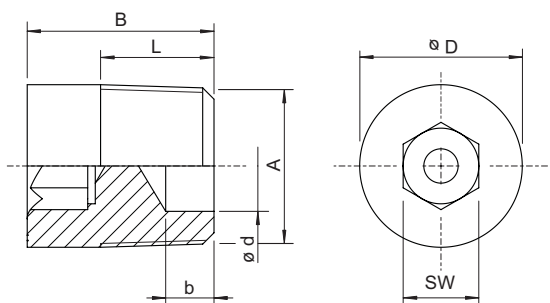
Ambient Conditions

Ambient temperature	-60 °C ... +200 °C
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Mechanical Data

Degree of protection (IP)	IP66
Drive	Hexagon socket

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = Thread size B = Length L = Thread length
d = Dimension d b = Dimension b
D = Outer diameter
SW = Width across flats hexagon socket

Stopping Plugs with a Hexagon Head made of Metal

Series CMP-757

STAHL



- Ex d und Ex e metal stopping plugs
- Large selection of thread types and sizes
- Operating temperature range: -60 °C ... +200 °C
- Worldwide certification, IECEx, ATEX, UL and cCSAus

WebCode **757DA**



The metal Ex-d stopping plugs from the 757 series with external hexagon and head enable temporary or long-term plugging of unused drilled holes. There is a wide selection of different thread sizes and types available. They have worldwide certification according to IECEx, ATEX, UL and cCSAus.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table							
Material		Nickel-plated brass					
Thread size	Outer diameter	Thread length	Width across flats	Width across corners	Art. No.	PS	Weight kg
M16	24.2 mm	15 mm	22 mm	24.2 mm	253024▲	18	0.015
M20	26.4 mm	15 mm	24 mm	26.4 mm	253025▲	18	0.060
M25	33 mm	15 mm	30 mm	33 mm	253026▲	18	0.120
M32	39.6 mm	15 mm	36 mm	39.6 mm	253027▲	18	0.192
M40	50.6 mm	15 mm	46 mm	50.6 mm	253028▲	18	0.170
M50	60.5 mm	15 mm	55 mm	60.5 mm	253029▲	18	0.265
M63	77 mm	15 mm	70 mm	77 mm	253030▲	18	0.280
M75	88 mm	15 mm	80 mm	88 mm	253031▲	18	0.300
NPT1	41.4 mm	25 mm	37.6 mm	41.4 mm	109640	18	0.150
NPT1/2	26.4 mm	19.9 mm	24 mm	26.4 mm	109638	18	0.100
NPT1-1/2	60.5 mm	26.1 mm	55 mm	60.5 mm	109642	18	0.150
NPT1-1/4	50.6 mm	25.6 mm	46 mm	50.6 mm	109641	18	0.150
NPT2	71.5 mm	26.9 mm	65 mm	71.5 mm	109643	18	0.300
NPT2-1/2	88 mm	39.9 mm	80 mm	88 mm	109644	18	0.320
NPT3/4	33.6 mm	20.2 mm	30.5 mm	33.6 mm	109639	18	0.125
Material		Stainless steel					
Thread size	Outer diameter	Thread length	Width across flats	Width across corners	Art. No.	PS	Weight kg
M16	24.2 mm	15 mm	22 mm	24.2 mm	253033▲	18	0.050
M20	26.4 mm	15 mm	24 mm	26.4 mm	251101▲	18	0.079

E10

Selection Table

Material: Stainless steel							
Thread size	Outer diameter	Thread length	Width across flats	Width across corners	Art. No.	PS	Weight kg
M25	33 mm	15 mm	30 mm	33 mm	251102 ▲	18	0.075
M32	39.6 mm	15 mm	36 mm	39.6 mm	251103 ▲	18	0.100
M40	50.6 mm	15 mm	46 mm	50.6 mm	253034 ▲	18	0.110
M50	60.5 mm	15 mm	55 mm	60.5 mm	253035 ▲	18	0.175
M63	77 mm	15 mm	70 mm	77 mm	253036 ▲	18	0.250
M75	88 mm	15 mm	80 mm	88 mm	253037 ▲	18	0.300
NPT1	41.4 mm	25 mm	37.6 mm	41.4 mm	255178 ▲	18	0.140
NPT1/2	26.4 mm	19.9 mm	24 mm	26.4 mm	255176 ▲	18	0.100
NPT1-1/2	60.5 mm	26.1 mm	55 mm	60.5 mm	255180 ▲	18	0.160
NPT1-1/4	50.6 mm	25.6 mm	46 mm	50.6 mm	255179 ▲	18	0.150
NPT2	71.5 mm	26.9 mm	65 mm	71.5 mm	255191 ▲	18	0.250
NPT2-1/2	88 mm	39.9 mm	80 mm	88 mm	255192	18	0.290
NPT3/4	33.6 mm	20.2 mm	30.5 mm	33.6 mm	255177 ▲	18	0.080

Technical Data

Explosion Protection

Gas explosion protection IECEx	Ex e IIC Gb
Gas explosion protection IECEx 2	Ex d IIC Gb
Gas explosion protection ATEX	Ex II 2 G Ex e IIC Gb
Gas explosion protection ATEX 2	Ex II 2 G Ex d IIC Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ex II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X

Note: The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

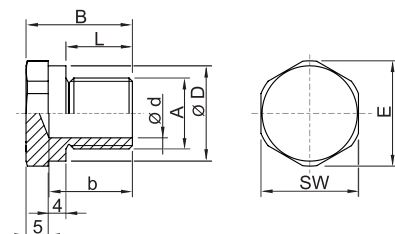
Ambient Conditions

Ambient temperature	-60 °C ... +200 °C
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Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	IP68 mounting in accordance with the specifications of the manufacturer, CMP
Drive	External hexagon

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = Thread size B = Length L = Thread length
D = Outer diameter b = Dimension b
d = Dimension d E = Width across corners
SW = Width across flats hexagon socket

Stopping Plugs with a Truss Head made of Metal

Series CMP-767

STAHL



- Ex-d und Ex-e metal stopping plugs
- Large selection of metric thread sizes
- Operating temperature range: -60 °C ... +200 °C
- Worldwide certification, IECEX, ATEX, UL and cCSAus

WebCode **767DA**



The metallic Ex-d stopping plugs from the 767 series with a truss head and hexagon socket enable temporary or continuous plugging of unused drilled holes. There is a large selection of different metric thread sizes and types available. They have worldwide certification according to IECEX, ATEX, UL and cCSAus.

	ATEX / IECEX					
Zone	0	1	2	20	21	22
Installation in		•	•	•	•	•

Selection Table						
Material	Nickel-plated brass					
Thread size	Outer diameter	Thread length	Art. No.	PS	Weight kg	
M20	27 mm	15 mm	253039▲	18	0.075	
M25	30 mm	15 mm	253040▲	18	0.090	
M32	36 mm	15 mm	253041▲	18	0.110	
M40	46 mm	15 mm	253042▲	18	0.200	
M50	55 mm	15 mm	253043▲	18	0.360	
M63	68 mm	15 mm	253044▲	18	0.500	
M75	80 mm	15 mm	253045▲	18	0.700	

Technical Data	
Explosion Protection	
Gas explosion protection IECEX	Ex e IIC Gb
Gas explosion protection IECEX 2	Ex d IIC Gb
Gas explosion protection ATEX	⊕ II 2 G Ex e IIC Gb
Gas explosion protection ATEX 2	⊕ II 2 G Ex d IIC Gb
Gas explosion protection EAC	1 Ex d e IIC Gb X
Dust explosion protection IECEX	Ex ta IIIC Da
Dust explosion protection ATEX	⊕ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da X
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)
Ambient Conditions	
Ambient temperature	-60 °C ... +200 °C

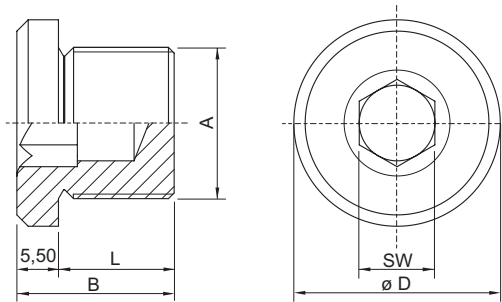
E10

Technical Data

Mechanical Data

Degree of protection (IP)	IP66
Type of protection note	IP68 mounting in accordance with the specifications of the manufacturer, CMP
Drive	Hexagon socket

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



A = Thread size B = Length L = Thread length
D = Outer diameter SW = Width across flats



- Improves safety by preventing condensation from building up in enclosures
- Continuous pressure equalisation between the enclosure and the environment
- Type of protection Ex e (increased safety), max. degree of protection IP65

WebCode **8162A**



R. STAHL's 8162 series breathers provide continuous pressure equalisation between the inside of the enclosure and the atmosphere around the enclosure. This ventilation prevents moisture from entering the enclosure via the seals and condensing inside the enclosure. The breathers are made from moulded material and meet the requirements of degrees of protection up to IP65.

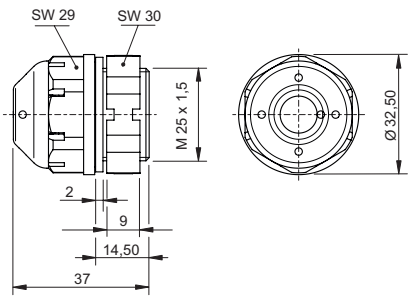
	ATEX / IECEx						NEC 500					
	0	1	2	20	21	22	Class I		Class II		Class III	
Zone							1	2	1	2	1	2
Installation in		•	•		•	•		•				

Selection Table					
Material	Polyamide				
Nuts present	Thread size	Packaging unit	Art. No.	PS	Weight kg
Yes	M25	20	138580 ▲	15	0.400
		1	138578	15	0.020

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex eb II Gb
Gas explosion protection ATEX	⊕ II 2 G Ex eb II Gb
Gas explosion protection EAC	1 Ex e II Gb U
Dust explosion protection IECEx	Ex tb IIIC Db
Dust explosion protection ATEX	⊕ II 2 D Ex tb IIIC Db
Dust explosion protection EAC	Ex tb IIIC Db U
Certificates	ATEX (PTB), EAC (LPE), IECEx (PTB), USA (FM)
Ambient Conditions	
Ambient temperature	-40 °C ... +70 °C
Mechanical Data	
Degree of protection (IP)	IP65
Type of protection note	when installed in enclosure side: IP64 for lateral mounting IP65 for vertical mounting downwards
Material	Polyamide
Mounting instruction	only permitted in enclosures with through hole

E10

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations





- Metal Ex e breathers
- Degree of protection: IP66, IP67, IP68
- Operating temperature range: -60 °C ... +130 °C
- Worldwide certification, IECEx, ATEX und cCSAus

WebCode **781A**



In conditions where there are temperature fluctuations and moisture, the metallic Ex e breathers from the 781 series protect electrical wiring from the effects of condensation inside the enclosure. They provide continuous pressure equalisation between the inside of the enclosure and the atmosphere around the enclosure. There are two metric and two NPT thread versions available for this purpose. An integrated connection thread seal and a special fixture nut are included in the standard version. They have worldwide certification according to IECEx, ATEX and cCSAus.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table					
Material	Nickel-plated brass				
Nuts present	Thread size	Art. No.	PS	Weight kg	
Yes	M20	206294 ▲	10	0.080	
	M25	244393 ▲	10	0.120	
	NPT1/2	255194 ▲	10	0.100	
	NPT3/4	255195 ▲	10	0.150	
Material	Stainless steel				
Nuts present	Thread size	Art. No.	PS	Weight kg	
Yes	M20	205689	10	0.080	
	M25	244392 ▲	10	0.130	
	NPT1/2	255196 ▲	10	0.100	
	NPT3/4	255197 ▲	10	0.150	

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex e IIC Gb
Gas explosion protection EAC	1 Ex e IIC Gb U
Dust explosion protection IECEx	Ex ta IIIC Da

E10

Technical Data	
Explosion Protection	
Dust explosion protection ATEX	⊕ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da U
Note	The product certification and certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)
Ambient Conditions	
Ambient temperature	-60 °C ... +130 °C
Mechanical Data	
Degree of protection (IP)	IP66
Type of protection note	IP67 and IP68 mounting in accordance with the specifications of the manufacturer, CMP

Cable Glands made of Moulded Material

Series HSK-K-MZ-Ex with Strain Relief

STAHL



- Plastic cable glands for mobile equipment with moving connection lines
- Type of protection Ex e, degree of protection IP68
- Practical strain relief offers improved safety

WebCode **HSKA**



HSK-K-MZ-Ex series cable glands have been designed for mobile equipment with movable connection lines. They are made from plastic, have an Ex e II type of protection, meet the requirements for the IP68 degree of protection, and feature strain relief to ensure that the connection is secure in the long term.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table							
Ex version		Ex e					
Thread size	Clamping range	Protrusion length	Width across flats	Thread length	Art. No.	PS	Weight kg
M16	4 – 8 mm	29 mm	19 mm	15 mm	106073▲	17	0.012
M20	6 – 12 mm	35.5 mm	24 mm	15 mm	106074▲	17	0.022
M25	13 – 18 mm	41 mm	33 mm	11 mm	106075▲	17	0.045
M32	18 – 25 mm	49 mm	42 mm	11 mm	106076▲	17	0.065
M40	22 – 32 mm	58 mm	53 mm	13 mm	106077▲	17	0.104
M50	32 – 38 mm	61.5 mm	60 mm	13 mm	106078▲	17	0.174
M63	37 – 44 mm	62 mm	65 mm 68 mm	14 mm	106079▲	17	0.270

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex e IIC Gb
Gas explosion protection ATEX	Ⓔ II 2 G Ex e IIC Gb
Gas explosion protection EAC	1 Ex e IIC Gb X
Dust explosion protection IECEx	Ex ta IIIC Da
Dust explosion protection ATEX	Ⓔ II 1 D Ex ta IIIC Da
Dust explosion protection EAC	Ex ta IIIC Da
Ambient Conditions	
Ambient temperature	-20 °C ... +70 °C
Mechanical Data	
Degree of protection (IP)	IP68
Type of protection note	10 bar (in specified terminal area)

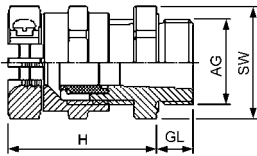
E10

Technical Data


Mechanical Data

Material	Polyamide / Aluminium
Material formed seal	NBR

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



H = Protrusion length GL = Thread length
 AG = Thread size SW = Width across flats

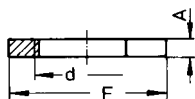
Selection Table				
Product Description	PVC-Shroud			
WebCode	ACC1H			
Colour	Black			
Figure	Product type designation	Art. No.	PS	Weight kg
	PVC04	109076 ▲	18	0.017
	PVC05	109077 ▲	18	0.018
	PVC06	109078 ▲	18	0.024
	PVC09	109080 ▲	18	0.033
	PVC10	109081 ▲	18	0.035
	PVC11	109082 ▲	18	0.040
	PVC13	109104 ▲	18	0.050
	PVC15	109084 ▲	18	0.070
	PVC17	109091 ▲	18	0.070
	PVC18	109085 ▲	18	0.075
	PVC20	109093 ▲	18	0.080
	PVC21	109086 ▲	18	0.230
	PVC22	109087 ▲	18	0.086
	PVC23	109094 ▲	18	0.117
	PVC24	109095 ▲	18	0.001
	PVC25	109096 ▲	18	0.158
	PVC26	109097 ▲	18	0.010
	PVC28	109099 ▲	18	0.460
	PVC30	109101 ▲	18	0.400
	PVC31	109102 ▲	18	1.000
PVC32	109103 ▲	18	0.300	
PVC36	254153 ▲	18	0.017	

Selection Table

Construction type WebCode Material incl. surface treatment		Hexagon nut ACC1B Nickel-plated brass				
Thread size	Width across flats	Height	Lot size	Art. No.	PS	Weight kg
M12	15 mm	3 mm	100	241518 ▲	18	0.220
M16	19 mm	3 mm	100	241519 ▲	18	0.290
M20	24 mm	3 mm	100	241520 ▲	18	0.480
M25	29 mm	3.5 mm	100	241561 ▲	18	0.720
M32	36 mm	4 mm	50	241562 ▲	18	0.545
M40	46 mm	4.5 mm	50	241563 ▲	18	1.030
M50	55 mm	5 mm	25	241564 ▲	18	0.680
M63	70 mm	5.5 mm	10	241565 ▲	18	0.499
NPT1/2"	27 mm	4.8 mm	100	253047 ▲	18	1.160
NPT1-1/2"	60 mm	5 mm	50	253051 ▲	18	1.640
NPT1-1/4"	50 mm	4.8 mm	50	253050 ▲	18	1.500
NPT1"	41 mm	4.8 mm	100	253049 ▲	18	1.600
NPT2-1/2"	84 mm	10 mm	10	253053 ▲	18	1.500
NPT2"	75 mm	5 mm	25	253052 ▲	18	1.375
NPT3/4"	33 mm	4.8 mm	100	253048 ▲	18	1.250
NPT3"	100 mm	10 mm	10	253054 ▲	18	3.770

Lot size: Purchase order quantity in [pieces], the delivery quantity is automatically rounded to the lot size.

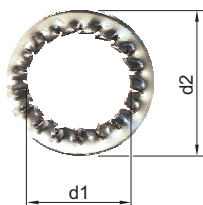
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



F = Width across flats d = Thread size A = Height

Selection Table					
Product Description	Serrated Lock Washer				
WebCode	WASHA				
Version	With internal teeth				
Material incl. surface treatment	Stainless steel				
Usage	Outer diameter	Thickness	Art. No.	PS	Weight kg
M16	25.5 mm	3.9 mm	255110	18	0.010
M20	32.5 mm	3.9 mm	255161	18	0.015
M25	40 mm	3.9 mm	255162	18	0.020
M32	43.5 mm	3.9 mm	255163	18	0.025
M40	64.5 mm	3.9 mm	255164	18	0.040
M50	80 mm	3.9 mm	255165	18	0.050
M63	100 mm	3.9 mm	255166	18	0.065
M75	112 mm	4.1 mm	255167	18	0.080
NPT 1/2"	32.5 mm	3.9 mm	255168	18	0.015
NPT 1"	43.5 mm	3.9 mm	255170	18	0.025
NPT 1 1/2"	80 mm	3.9 mm	255172	18	0.050
NPT 1 1/4"	64.5 mm	3.9 mm	255171	18	0.040
NPT 2"	100 mm	3.9 mm	255173	18	0.065
NPT 2 1/2"	112 mm	3.9 mm	255174	18	0.080
NPT 3/4"	40 mm	3.9 mm	255169	18	0.020
NPT 3"	135 mm	4.1 mm	255175	18	0.110

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



d1 = Usage d2 = Outer diameter

Selection Table

Product Description		Earth tags						
WebCode		EARTHA						
Material incl. surface treatment		Nickel-plated brass						
Thread (outer)	Inner diameter	Outer diameter	Length	Nominal length	Thickness	Art. No.	PS	Weight kg
M16	M6	25.4 mm	50.4 mm	30.2 mm	1.3 mm	254804	18	0.008
M20	M6	27.1 mm	52.3 mm	33.1 mm	1.3 mm	254805	18	0.010
M25	M6	35.1 mm	59.2 mm	35.6 mm	1.5 mm	254806	18	0.015
M32	M12	45.2 mm	77 mm	43.1 mm	1.5 mm	254807	18	0.025
M40	M13	53.7 mm	88.7 mm	45.4 mm	1.5 mm	254808	18	0.035
M50	M13	65.2 mm	111.2 mm	58.1 mm	1.5 mm	254809	18	0.045
M63	M13	82.6 mm	128.7 mm	66.8 mm	1.5 mm	254810	18	0.055
M75	M13	95.4 mm	141.5 mm	73 mm	1.5 mm	254811	18	0.070
NPT1/2"	M6	27.1 mm	52.9 mm	33.1 mm	1.3 mm	254812	18	0.010
NPT1-1/2"	M13	65.2 mm	111.2 mm	58.1 mm	1.5 mm	254816	18	0.045
NPT1-1/4"	M13	53.7 mm	88.7 mm	45.4 mm	1.5 mm	254815	18	0.035
NPT1"	M12	45.2 mm	77 mm	43.1 mm	1.5 mm	254814	18	0.025
NPT2-1/2"	M13	95.4 mm	141.5 mm	73 mm	1.5 mm	254818	18	0.070
NPT2"	M13	82.6 mm	128.7 mm	66.8 mm	1.5 mm	254817	18	0.055
NPT3/4"	M6	35.1 mm	59.2 mm	35.6 mm	1.5 mm	254813	18	0.015

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

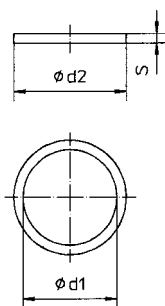


L = Length d2 = Outer diameter
d1 = Thread (outer) D = Inner diameter
F = Nominal length

Selection Table							
Product Description		Flat gaskets					
WebCode		ACC1K					
Material		Ethyl. propyl. diene M rubber					
Connection thread	Inner diameter	Outer diameter	Thickness	Lot size	Art. No.	PS	Weight kg
M32	30.5 mm	36 mm	2 mm	50	222366	19	0.001
M40	38.5 mm	48 mm	2 mm	100	222374	19	0.002
M50	48 mm	56 mm	2 mm	100	222375	19	0.002
M63	61 mm	69 mm	2 mm	100	222376	19	0.002
	61 mm	69 mm	2 mm	50	222369	19	0.002
Product Description		Flat gaskets					
WebCode		ACC1K					
Material		Ethylene propylene diene M class rubber					
Connection thread	Inner diameter	Outer diameter	Thickness	Lot size	Art. No.	PS	Weight kg
M16	15.5 mm	20 mm	2 mm	100	222370	19	0.001
	15.5 mm	20 mm	2 mm	50	222363	19	0.001
M20	19 mm	24 mm	2 mm	100	222371	19	0.001
	19 mm	24 mm	2 mm	50	222364	19	0.001
M25	24 mm	29 mm	2 mm	100	222372	19	0.001
	24 mm	29 mm	2 mm	50	222365	19	0.001
M32	30.5 mm	36 mm	2 mm	100	222373	19	0.001
M40	38.5 mm	46 mm	2 mm	50	222367	19	0.002
M50	48 mm	56 mm	2 mm	50	222368	19	0.002

Only for stopping plugs Series 8290.
Lot size: Purchase order quantity in [pieces], the delivery quantity is automatically rounded to the lot size.

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



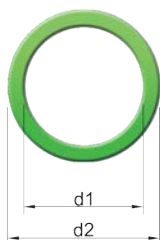
d1 = Inner diameter d2 = Outer diameter
S = Thickness

Selection Table

Product Description WebCode Material		Seal For cable entry SEALA Polyamide					
Connection thread	Colour	Inner diameter	Outer diameter	Thickness	Art. No.	PS	Weight kg
M16	White	16.1 mm	25.4 mm	2 mm	167668	18	0.001
M20	White	20.1 mm	28 mm	2 mm	111778	18	0.001
M25	White	25.2 mm	34.4 mm	2 mm	111779	18	0.001
M32	White	32.2 mm	44.1 mm	2 mm	111780	18	0.001
M40	White	40.5 mm	50.5 mm	2 mm	167671	18	0.001
M50	White	50.5 mm	63.4 mm	2 mm	167672	18	0.001
M63	White	63.5 mm	76.5 mm	2 mm	167673	18	0.001
M75	White	75.5 mm	95 mm	2 mm	167674	18	0.001
M90	White	90.6 mm	110 mm	2 mm	167675	19	0.001
NPT1	Green	34 mm	44.1 mm	2 mm	109664	18	0.001
NPT1/2	Green	21.65 mm	28 mm	2 mm	109662	18	0.001
NPT1-1/2	Green	49 mm	63.4 mm	2 mm	109666	18	0.001
NPT1-1/4	Green	43 mm	50.5 mm	2 mm	109665	18	0.001
NPT2	Green	61 mm	76.5 mm	2 mm	109667	18	0.001
NPT2-1/2	Green	73.8 mm	95 mm	2 mm	109668	18	0.001
NPT3	Green	90.6 mm	110 mm	2 mm	109669	19	0.001
NPT3/4	Green	26.9 mm	34.4 mm	2 mm	109663	18	0.010

Lot size: Purchase order quantity in [pieces], the delivery quantity is automatically rounded to the lot size.

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



d1 = Inner diameter d2 = Outer diameter

Selection Table					
Product Description	CMP sealing disc For cable entry				
WebCode	SEALB				
Material	Nickel-plated brass				
Thickness	0.5 mm				
Product Type	Usage	Diameter	Art. No.	PS	Weight kg
ID01	A** - 20s A** - 20s16 SS2K / PXSS2K - 20s SS2K / PXSS2K - 20s16	17.3 mm	253055	18	0.005
ID02	E** / C** / PX** - 20s E** / C** / PX** - 20s16 SS2K / PXSS2K - 20 T3CDS / TE1FU - 20s T3CDS / TE1FU - 20s16	20.1 mm	253056	18	0.006
ID03	A** - 20	21.4 mm	253057	18	0.007
ID04	E** / C** / PX** - 20 SS2K / PXSS2K - 25 T3CDS / TE1FU - 20	26.6 mm	253058	18	0.010
ID05	A** - 25	29.4 mm	253059	18	0.012
ID06	E** / C** / PX** - 25 E** / C** / PX** - 25s SS2K / PXSS2K - 32 T3CDS / TE1FU - 25 T3CDS / TE1FU - 25s	32.4 mm	253060	18	0.015
ID07	A** - 32	35.5 mm	253061	18	0.020
ID08	A** - 40 E** / C** / PX** - 32 SS2K / PXSS2K - 40 T3CDS / TE1FU - 32	40.8 mm	253062	18	0.022
ID09	A** - 50s SS2K / PXSS2K - 50s	47 mm	253063	18	0.025
ID10	E** / C** / PX** - 40 T3CDS / TE1FU - 40	49.6 mm	253064	18	0.026
ID11	A** - 50 SS2K / PXSS2K - 50	53.4 mm	253065	18	0.028
ID12	E** / C** / PX** - 50s T3CDS / TE1FU - 50s	55.8 mm	253066	18	0.030
ID13	A** - 63s SS2K / PXSS2K - 63s	60.4 mm	253067	18	0.032
ID14	E** / C** / PX** - 50 SS2K / PXSS2K - 63 T3CDS / TE1FU - 50	64 mm	253068	18	0.033
ID15	A** - 63	65.5 mm	253069	18	0.034
ID16	E** / C** / PX** - 63s SS2K / PXSS2K - 75s T3CDS / TE1FU - 63s	69.5 mm	253070	18	0.036
ID17	A** - 75s	72.5 mm	253071	18	0.038
ID18	E** / C** / PX** - 63 T3CDS / TE1FU - 63	73.5 mm	253072	18	0.039
ID19	SS2K / PXSS2K - 75 A** - 75	77.5 mm	253073	18	0.040

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6018/1	Emergency Luminaire for Fluorescent Lamps	430
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6412/5	Linear Luminaire with LED	412
6414/1	Linear Luminaire for Fluorescent Lamps	425
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