

# INSTALLATION EQUIPMENT



Product	Installation in Zone						Series	Page	WebCode
	0	1	2	20	21	22			
<b>Empty Enclosures / Ex d Cabinets</b>									
Empty Enclosures made of Aluminium		•	•		•	•	8250	406	8250A
Ex d Cabinet/EXpressure Empty Enclosure Flameproof Enclosure, made of Stainless Steel		•	•				8280	402	8280A
<b>Installation Switch</b>									
Installation Switch made of Moulded Material		•	•		•	•	8040/11-V30	378	8040F
<b>Junction Boxes</b>									
Junction Boxes made of Moulded Material, with 4 ... 8 Sheath Terminals		•	•		•	•	8118	382	8118A
Junction Boxes made of Moulded Material, with 5 Sheath Terminals		•	•		•	•	8102	380	8102A
<b>Maximum Number of Cable Glands</b>									
Terminal Boxes / Control Stations Series 8146 maximum Number of Cable Glands								392	
Terminal Boxes / Control Stations Series 8150 maximum Number of Cable Glands								397	
Terminal Boxes Series 8118 maximum Number of Cable Glands								386	

Product	Installation in Zone						Series	Page	WebCode
	0	1	2	20	21	22			
<b>Plugs and Sockets</b>									
Coupler Sockets SolConeX 16 A		•	•		•	•	8570/16	416	8570B
Coupler Sockets SolConeX 32 A		•	•		•	•	8571/16	418	8571F
Coupler SolConeX 16 A		•	•		•	•	8572/14	423	8572B
Coupler, Extra-Low Voltage SolConeX 16 A		•	•		•	•	8573/14	431	8573C
Ex Plug Connector 4-poles, 4-poles + PE Bracket		•	•		•	•	8591/1, 8591/4	448	8591A
Ex Plug Connector 6-poles		•	•				8591/2	451	8591B
Plugs CES 63 A		•	•		•	•	8579/12	440	8579E
Plugs CES 125 A		•	•		•	•	8581/12	444	8581E
Plugs SolConeX 16 A		•	•		•	•	8570/12	413	8570E
Plugs SolConeX 32 A		•	•		•	•	8571/12	436	8571E
Plugs, Extra-Low Voltage SolConeX 16 A		•	•		•	•	8573/12	429	8573D
Wall-Mounting Socket, Compact SolConeX 16 A		•	•		•	•	8572/13	420	8572A
Wall-Mounting Sockets CES 63 A		•	•		•	•	8579/31	438	8579A
Wall-Mounting Sockets CES 125 A		•	•		•	•	8581/31	442	8581A
Wall-Mounting Sockets SolConeX 16 A		•	•		•	•	8570/11	409	8570A
Wall-Mounting Sockets SolConeX 32 A		•	•		•	•	8571/11	433	8571A
Wall-Mounting Sockets, Compact, Extra-Low Voltage SolConeX 16 A		•	•		•	•	8573/13	426	8573B
<b>Terminal Boxes</b>									
Terminal Boxes Ex e made of Moulded Material		•	•		•	•	8146/1	388	8146A
Terminal Boxes Ex e made of Stainless Steel		•	•		•	•	8150/1	393	8150A
Terminal Boxes Ex i made of Moulded Material		•	•		•	•	8146/2	390	8146P
Terminal Boxes Ex i made of Stainless Steel		•	•		•	•	8150/2	395	8150H
Terminal Boxes made of Aluminium, Ex d		•	•		•	•	8252/1	398	8252A
Terminal Boxes made of Moulded Material		•	•		•	•	8118	384	8118B
<b>Accessories for Plug and Socket Devices</b>									
Accessories for Plug and Socket Devices Series 8570, 8571, 8572, 8573, 8579, 8581								446	

For additional products and information please refer to [r-stahl.com](http://r-stahl.com)



- Available as 2 pole OFF switch or changeover switch
- Enclosure made of optical fibre reinforced polyester resin
- Degree of protection according to IEC/EN 60529
- Clear position indicator 0/1 or ON/OFF

WebCode **8040F**



The installation switches Series 8040/11-V30 are used for lighting installations. The switch position is shown unambiguously by the 90° position. This is especially convenient if lights and switch are in different rooms. The fluorescent turning handle can be useful in the case of a power failure.

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

### Selection Table

Version		Off switch				
Product Type	Sealing material	Ambient temperature	Art. No.	PS	Weight kg	
8040/11-V30-033-B	NBR	-20 °C ... +60 °C	245655 ▲	11	0.600	
8040/11-V30-033-S	Silicone	-60 °C ... +60 °C	245656 ▲	11	0.600	
Version		Two-way circuit				
Product Type	Sealing material	Ambient temperature	Art. No.	PS	Weight kg	
8040/11-V30-035-B	NBR	-20 °C ... +60 °C	245657 ▲	11	0.615	
8040/11-V30-035-S	Silicone	-60 °C ... +60 °C	245658	11	0.615	

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8040F

### Technical Data

Explosion Protection	
IECEx gas explosion protection	Ex db eb IIC T6 Gb
IECEx dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex db eb IIC T6 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), Brazil (ULB), China (CQST), EAC (LPE), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.
Electrical Data	
Rated operational voltage AC	690 V
Rated operational voltage DC	220 V
Rated operational current	16 A (T6)

## Technical Data

### Electrical Data

Notes	switching capacity	AC-1: 16 A, 690 V AC-15: 16 A, 415 V AC-3: 8 A, 500 V AC-3: 4 A, 690 V DC-1: 10 A, 24 V DC-1: 6 A, 60 V
-------	--------------------	--

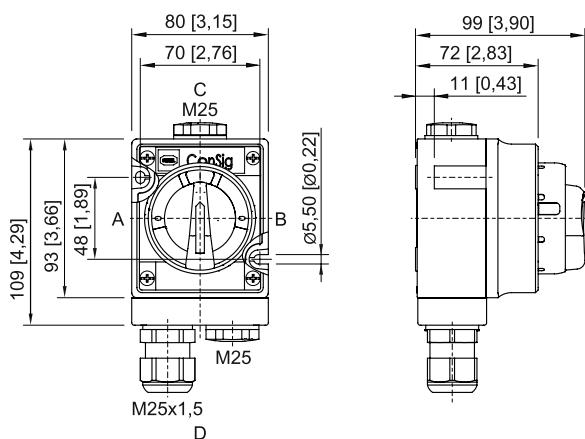
### Mechanical Data

Degree of protection (IP)	IP66
Degree of protection note	according to IEC/EN 60529
Enclosure material	Polyester, Glass fibre reinforced
Connection terminals min.	1.5 mm <sup>2</sup>
Connection terminals finely-stranded max.	2.5 mm <sup>2</sup>
Connection terminals solid max.	4 mm <sup>2</sup>
Service life, min.	10 <sup>5</sup> operating cycles

### Components

Cable glands	1 x M25 Ø 7 to 17 mm
Stopping plug	2 x M25 x 1.5

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



E3



- Small resistant Ex e enclosure for distributing electric energy
- Degree of protection IP66
- Equipped with 4 mantle terminals and 1 PE connection

WebCode **8102A**



R. STAHL Series 8102 junction boxes are small Ex e enclosures for transporting and distributing electric energy in hazardous areas. They are made from glass fibre-reinforced polyester resin and are therefore extremely robust. The junction box has 5 mantle terminals, whereby one is used as a PE connection point. The cable dia. range of the mantle terminals is 2 x 4 mm<sup>2</sup>.

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

E3

Selection Table							
Product Description		Ex e junction box					
Figure	Product Type	Cable Glands	Terminal	Art. No.	PS	Weight kg	
	8102/21-32	3 x Black cable entry M20 Ø 4 ... 13 mm	5 x Sheath terminal 4 mm <sup>2</sup>	218559	10	0.330	
	8102/21-32-C995	3 x Black cable entry M20 Ø 6,5 ... 14 mm	5 x Sheath terminal 4 mm <sup>2</sup>	132973	10	0.200	
	8102/21-32-C1013	2 x Black cable entry M20 Ø 4 ... 13 mm 1 x Stopping plug M20 x 1,5	5 x Sheath terminal 4 mm <sup>2</sup>	132975	10	0.330	
	8102/21-31	3 x Black cable entry Semi-gland M20 Ø 6,5 ... 14 mm	5 x Sheath terminal 4 mm <sup>2</sup>	132988 ▲	10	0.300	
Product Description		Ex i junction box					
Figure	Product Type	Cable Glands	Terminal	Art. No.	PS	Weight kg	
	8102/22-32	3 x Blue cable entry M20 Ø 4 ... 13 mm 5 x Sheath terminal 4 mm <sup>2</sup>	5 x Sheath terminal 4 mm <sup>2</sup>	261597 ▲	10	0.330	
	8102/22-31	3 x Black cable entry Semi-gland M20 Ø 6,5 ... 14 mm	5 x Sheath terminal 4 mm <sup>2</sup>	132989 ▲	10	0.300	

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8102A

Technical Data				
Variant	Ex e junction box	Ex e junction box with semi-glands	Ex i junction box	Ex i junction box with semi-glands
Explosion Protection				
IECEX gas explosion protection	Ex eb IIC T6/T5 Gb	Ex eb IIC T6/T5 Gb	Ex ia ib IIC T6 Gb	Ex ia ib IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C ... T90 °C Db	Ex tb IIIC T80 °C ... T90 °C Db	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex eb IIC T6/T5 Gb	Ⓔ II 2 G Ex eb IIC T6/T5 Gb	Ⓔ II 2 G Ex ia ib IIC T6 Gb	Ⓔ II 2 G Ex ia ib IIC T6 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T80 °C ... T90 °C Db	Ⓔ II 2 D Ex tb IIIC T80 °C ... T90 °C Db	Ⓔ II 2 D Ex tb IIIC T80 °C Db	Ⓔ II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), EAC (CCVE), IECEx (PTB)	ATEX (PTB), EAC (CCVE), IECEx (PTB)	ATEX (PTB), EAC (CCVE), IECEx (PTB)	ATEX (PTB), EAC (CCVE), IECEx (PTB)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.			
Electrical Data				
Rated operational current	16 A (T6) 25 A (T5)	16 A (T6) 25 A (T5)	10 A (T6)	10 A (T6)
Ambient Conditions				
Ambient temperature	-50 °C ... +55 °C (IIC T6) (T80 °C) -50 °C ... +70 °C (IIC T5) (T90 °C)	-40 °C ... +40 °C (IIC T6) (T80 °C) -40 °C ... +70 °C (IIC T5) (T90 °C)	-50 °C ... +70 °C	-40 °C ... +70 °C
Mechanical Data				
Degree of protection (IP)	IP66	IP66	IP66	IP66
Degree 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	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced
Accessories and spare parts can be found online at <a href="http://r-stahl.com">r-stahl.com</a>				
Dimensional Drawings on the Internet <a href="http://r-stahl.com">r-stahl.com</a>				



- Resistant Ex e enclosure, universally usable as connection or junction boxes and/or to safeguard electric distributors up to 6.3 A
- Degree of protection IP66
- With mantle terminals or with a combination of mantle terminals and miniature fuses (optional)

WebCode **8118A**



R. STAHL Series 8118 Ex e junction boxes are equipped with 4, 5 or 8 mantle terminals depending on their design size. As an option, miniature fuses can still be installed in addition. Junction boxes are also suitable for safeguarding. The robust enclosure made from glass fibre-reinforced polyester resin can be equipped with plastic or metal cable glands.

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

E3

Selection Table						
Product Description		Ex e junction box				
Ambient temperature °C		-60 ... +40 °C				
Figure	Product Type	Rated operational voltage AC	Cable Glands	Terminal	Art. No.	PS
	8118/121-804-2	750 V	3 x Stopping plug M25 x 1,5	8 x Sheath terminal 6 mm <sup>2</sup>	202991	10
Product Description		Ex e junction box				
Ambient temperature °C		-40 ... +40 °C				
Figure	Product Type	Rated operational voltage AC	Cable Glands	Terminal	Art. No.	PS
	8118/111-503	550 V	3 x Black cable entry M20 Ø 4 ... 13 mm 1 x Stopping plug M20 x 1,5	5 x Sheath terminal 4 mm <sup>2</sup>	133248▲	10
	8118/111-401	550 V	2 x Black cable entry M20 Ø 4 ... 13 mm 1 x Stopping plug M20 x 1,5	4 x Sheath terminal 4 mm <sup>2</sup>	133077▲	10
	8118/121-807	750 V	4 x Black cable entry M25 Ø 7 ... 17 mm 2 x Stopping plug M25 x 1,5	8 x Sheath terminal 6 mm <sup>2</sup>	133126▲	10
	8118/121-806	750 V	4 x Black cable entry M20 Ø 4 ... 13 mm 2 x Stopping plug M20 x 1,5	8 x Sheath terminal 6 mm <sup>2</sup>	133120▲	10

Selection Table							
Product Description		Ex e junction box					
Ambient temperature °C		-40 ... +40 °C					
Figure	Product Type	Rated operational voltage AC	Cable Glands	Terminal	Art. No.	PS	
	8118/121-805	750 V	3 x Black cable entry M25 Ø 7 ... 17 mm 1 x Stopping plug M25 x 1,5	8 x Sheath terminal 6 mm <sup>2</sup>	133114 ▲	10	
	8118/121-538	750 V	4 x Black cable entry M25 Ø 7 ... 17 mm	5 x Sheath terminal 6 mm <sup>2</sup>	133252 ▲	10	
	8118/131-814	750 V	6 x Black cable entry M25 Ø 7 ... 17 mm 4 x Stopping plug M25 x 1,5	8 x Sheath terminal 10 mm <sup>2</sup>	133210 ▲	10	
	8118/131-811	750 V	4 x Black cable entry M32 Ø 9 ... 21 mm 2 x Stopping plug M32 x 1,5	8 x Sheath terminal 10 mm <sup>2</sup>	133186 ▲	10	
Product Description		Ex i junction box					
Ambient temperature °C		-40 ... +75 °C					
Figure	Product Type	Rated operational voltage AC	Cable Glands	Terminal	Art. No.	PS	
	8118/211-403	60 V	3 x Blue cable entry M20 Ø 4 ... 13 mm 1 x Stopping plug M20 x 1,5	4 x Sheath terminal 4 mm <sup>2</sup>	133104 ▲	10	
	8118/211-401	60 V	2 x Blue cable entry M20 Ø 4 ... 13 mm 1 x Stopping plug M20 x 1,5	4 x Sheath terminal 4 mm <sup>2</sup>	133084 ▲	10	

Junction boxes with integral equipment fuse on request

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8118A

E3

Technical Data		
Variant	Ex e junction box	Ex i junction box
Explosion Protection		
IECEX gas explosion protection	Ex eb IIC T6/T5 Gb	Ex ia ib IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C ... T95 °C ... T130 °C Db	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex eb IIC T6/T5 Gb	Ⓔ II 2 G Ex ia ib IIC T6 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T80 °C ... T95 °C ... T130 °C Db	Ⓔ II 2 D Ex tb IIIC T80 °C Db
EAC gas explosion protection	Ⓕ 1 Ex e d ia mb IIC T6...T3 Gb X	Ⓕ 1 Ex e d ia mb IIC T6...T3 Gb X
EAC dust explosion protection	Ⓕ Ex tb IIIC T80° ... T135°C DbX	Ⓕ Ex tb IIIC T80° ... T135°C DbX
Certificates	ATEX (PTB), Brazil (ULB), China (COST), EAC (LPE), IECEX (PTB)	ATEX (PTB), Brazil (ULB), China (COST), EAC (LPE), IECEX (PTB)
Ship approval	BVIS	BVIS
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.	
Mechanical Data		
Degree of protection (IP)	IP66	IP66
Enclosure material	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced





- 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						
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
Product Description		Ex e terminal box						
Ambient temperature °C		-40 ... +40 °C						
Figure	Product Type	Cable Glands	Terminal	Terminal rail	Rated operational voltage AC	Art. No.	PS	Weight kg
	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 mm², grey 2 x Phoenix USLKG 2-conductor, 4 mm², green-yellow	35 x 90 mm (1x)	690 V	224644 ▲	10	0.610
	8118/122-118-0	4 x Black cable entry With plug M25 Ø 7 ... 17 mm	1 x WAGO 221 2-conductor 4 mm² light grey	35 x 90 mm (1x)	440 V	273361	10	0.620
	8118/132-117-0	6 x Black cable entry With plug M25 Ø 7 ... 17 mm	1 x WAGO 221 2-conductor 4 mm² light grey	35 x 100 mm (1x)	440 V	273362	10	0.820

E3

Selection Table								
Product Description		Ex i terminal box						
Ambient temperature °C		-40 ... +75 °C						
Figure	Product Type	Cable Glands	Terminal	Terminal rail	Rated operational voltage AC	Art. No.	PS	Weight kg
	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 <sup>2</sup> , blue 2 x Phoenix UT 2-conductor, 4 mm <sup>2</sup> , grey	35 x 90 mm (1x)	60 V	224645	10	0.610

Enclosure equipped with terminals  
Stopping plugs are enclosed separately

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8118B

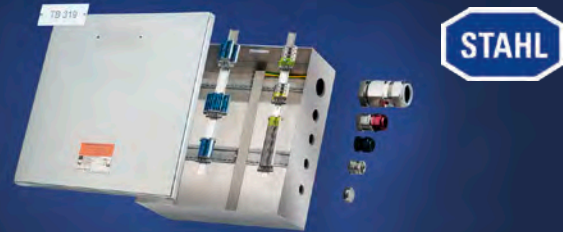
Technical Data				
Variant	Terminal box Ex e Phoenix UT	Terminal box Ex e WAGO 221	Terminal box Ex e Weidmüller WDU	Terminal box Ex i Phoenix UT
Explosion Protection				
IECEx gas explosion protection	Ex eb IIC T6/T5 Gb	Ex eb IIC T6/T5 Gb	Ex eb IIC T5/T4 Gb	Ex ia ib IIC T6 Gb
IECEx dust explosion protection	Ex tb IIIC T80 °C ... T95 °C Db	Ex tb IIIC T80 °C ... T95 °C Db	Ex tb IIIC T95 °C ... T130 °C Db	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex eb IIC T6/T5 Gb	⊕ II 2 G Ex eb IIC T6/T5 Gb	⊕ II 2 G Ex eb IIC T5/T4 Gb	⊕ II 2 G Ex ia ib IIC T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C ... T95 °C Db	⊕ II 2 D Ex tb IIIC T80 °C ... T95 °C Db	⊕ II 2 D Ex tb IIIC T95 °C ... T130 °C Db	⊕ II 2 D Ex tb IIIC T80 °C Db
EAC gas explosion protection	⊕ 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
EAC dust explosion protection	⊕ 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), IECEx (PTB), Korea (KGS)	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	BVIS
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.			
Mechanical Data				
Degree of protection (IP)	IP66	IP66	IP66	IP66
Enclosure material	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced
Silicone-free	No	No	No	No
Dimensional Drawings on the Internet <a href="http://r-stahl.com">r-stahl.com</a>				

E3

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
 Cable glands Series 8161	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](http://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	<b>Start a new configuration</b> <ul style="list-style-type: none"> <li>Select a relevant picture</li> </ul>	 update shopping cart	<b>Update shopping cart when amending quantities</b> <ul style="list-style-type: none"> <li>Amend quantities of relevant item(s)</li> <li>Click on "update shopping cart"</li> </ul>
 edit position	<b>Amendment of configured item</b> <ul style="list-style-type: none"> <li>Tick relevant item</li> <li>Click on "edit position"</li> </ul>	 finish	<b>Request quotation or place order</b> <ul style="list-style-type: none"> <li>Check / amend quantities</li> <li>Click on "finish"</li> </ul>
 copy to clipboard	<b>Copy configured items to clipboard</b> <ul style="list-style-type: none"> <li>Tick relevant item(s)</li> <li>Click on "copy to clipboard"</li> </ul>	 Technical data of configured item	<ul style="list-style-type: none"> <li>Tick relevant item</li> <li>Click on "info button"</li> </ul>
 delete selected	<b>Delete configured item from shopping cart</b> <ul style="list-style-type: none"> <li>Tick relevant item(s)</li> <li>Click on "delete selected"</li> </ul>	 Overview of configured items via e-mail	<ul style="list-style-type: none"> <li>Tick relevant item(s)</li> <li>Click on "envelope button"</li> </ul>

### Clipboard

 copy to clipboard	<b>Copy configured items to clipboard</b> <ul style="list-style-type: none"> <li>Tick relevant item(s)</li> <li>Click on "copy to clipboard"</li> </ul>	 Overview of configured items via e-mail	<ul style="list-style-type: none"> <li>Tick relevant item(s)</li> <li>Click on "envelope button"</li> </ul>
 delete selected	<b>Delete configured item from shopping cart</b> <ul style="list-style-type: none"> <li>Tick relevant item(s)</li> <li>Click on "delete selected"</li> </ul>		



- 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 mm<sup>2</sup> 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 e terminal box						
Figure	Product Type	Terminal	Terminal rail	Earth rail	Max. number of 2.5 mm <sup>2</sup> terminals	Art. No.	PS	Weight kg
	8146/1S71	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey	35 x 301 mm (1x)	7 x 4 mm <sup>2</sup> (1x)	49	136738 ▲	10	2.010
	8146/1031	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey 2 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , green-yellow	35 x 90 mm (1x)	–	6	136603 ▲	10	0.640
	8146/1041	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey 2 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , green-yellow	35 x 133 mm (1x)	–	19	136665 ▲	10	0.730
	8146/1051	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey	35 x 133 mm (1x)	7 x 4 mm <sup>2</sup> (1x)	19	136688 ▲	10	1.060
	8146/1061	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey	35 x 189 mm (1x)	7 x 4 mm <sup>2</sup> (1x)	27	136714 ▲	10	1.400

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 387 or go online and visit [r-stahl.com/configurator](http://r-stahl.com/configurator)

Technical Data	
Explosion Protection	
IECEX gas explosion protection	Ex eb IIC T6/T5/T4 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C ... T95 °C ... T130 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex eb IIC T6/T5/T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C ... T95 °C ... T130 °C Db
EAC gas explosion protection	Ⓜ 1 Ex e d ia mb IIC T6...T3 Gb X
EAC dust explosion protection	Ⓜ 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
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.
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)
Ambient Conditions	
Ambient temperature	-60 °C ... +40 °C (IIC T6) (T80 °C) -60 °C ... +55 °C (IIC T5) (T95 °C) -60 °C ... +70 °C (T4) (T130 °C)
Mechanical Data	
Degree of protection (IP)	IP66
Degree 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 392	
Dimensional Drawings on the Internet <a href="http://r-stahl.com">r-stahl.com</a>	



- 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 mm<sup>2</sup> 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									
Ex i terminal box									
Figure	Product Type	Terminal	Terminal rail	PA rail	Max. number of 2.5 mm <sup>2</sup> terminals	Max. no. of terminals 4 mm <sup>2</sup>	Art. No.	PS	Weight kg
	8146/2S71	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , blue	35 x 301 mm (1x)	7 x 4 mm <sup>2</sup> (1x)	49	–	136739	10	2.010
	8146/2041	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , blue 2 x Phoenix UT 2-conductor, 4 mm <sup>2</sup> , grey	35 x 133 mm (1x)	–	19	–	136666	10	0.730
	8146/2051	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , blue	35 x 133 mm (1x)	7 x 4 mm <sup>2</sup> (1x)	19	–	136689	10	1.000
	8146/2061	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , blue	35 x 189 mm (1x)	7 x 4 mm <sup>2</sup> (1x)	27	–	136715	10	1.400

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 387 or go online and visit [r-stahl.com/configurator](http://r-stahl.com/configurator)

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex ia ib IIC T6 Gb
IECEx dust explosion protection	Ex tb IIIIC T80 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex ia ib IIC T6 Gb






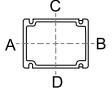
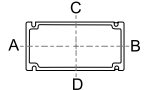

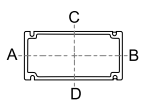
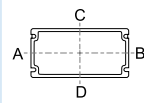
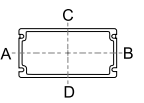
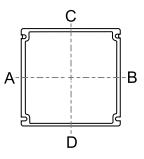

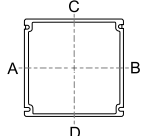
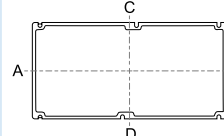
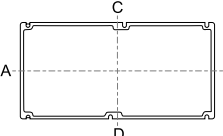
Technical Data	
Explosion Protection	
ATEX dust explosion protection	⊕ II 2 D Ex tb III C T80 °C Db
EAC gas explosion protection	⊕ 1 Ex e d ia mb IIC T6...T3 Gb X
EAC dust explosion protection	⊕ Ex tb III C T80° ... T135°C DbX
Certificates	ATEX (PTB), Brazil (ULB), China (NEPSI), EAC (LPE), IECEX (PTB), India (PESO), Taiwan (ITRI)
Ship approval	BVIS
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.
Electrical Data	
Rated operational voltage AC	60 V
Notes	depend on the terminal type used and the explosion protected components
Ambient Conditions	
Ambient temperature	-60 °C ... +75 °C
Mechanical Data	
Degree of protection (IP)	IP66
Degree 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 392	
Dimensional Drawings on the Internet <a href="http://r-stahl.com">r-stahl.com</a>	



## 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																			
	<b>8146/.031</b> 		<b>8146/.041</b> 		<b>8146/.241/.242</b> 				<b>8146/.051/.052</b> 				<b>8146/.061/.062</b> 				<b>8146/.071/.072</b> 			
	without flange		without 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
M16 x 1.5	3	4	5	7	5	10	-	7	6	8	-	7	8	10	7	7	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
M25 x 1.5	1	2	2	3	2	6	-	3	3	4	-	3	4	5	3	3	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
M40 x 1.5	-	1	1	1	1	2	-	2	1	2	-	2	2	2	2	2	2	4	2	4
M50 x 1.5	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-
	<b>8146/.073/.075</b> 				<b>8146/.S71</b> 				<b>8146/.S73</b> 				<b>8146/.081/.082</b> 							
	without flange		without 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	-	-	-	-				
	<b>8146/.083/.085/.086</b> 				<b>8146/.091/.092</b> 				<b>8146/.093/.095</b> 											
	without flange		without 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								



- 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 Enclosure material	Ex e terminal box 1.4404 stainless steel, (AISI 316L), brush finished							
Figure	Product Type	Dimensions (WxHxD)	Type of terminals 1	Terminal rail	Max. number of 2.5 mm <sup>2</sup> terminals	Art. No.	PS	Weight kg
	8150/1-0727-0360-150-3311	727 x 360 x 150 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey	35 x 672 mm (1x)	114	275140	10	12.000
	8150/1-0400-0400-150-3311	400 x 400 x 150 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey	35 x 358 mm (1x)	63	275139	10	8.000
	8150/1-0400-0300-150-3311	400 x 300 x 150 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey	35 x 358 mm (1x)	63	275138	10	7.235
	8150/1-0360-0360-091-3311	360 x 360 x 91 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey	35 x 301 mm (1x)	52	275137	10	4.266
	8150/1-0360-0176-091-3311	360 x 176.5 x 91 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey	35 x 301 mm (1x)	52	275136	10	3.748
	8150/1-0300-0200-150-3311	300 x 200 x 150 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey	35 x 258 mm (1x)	43	275135	10	4.282
	8150/1-0236-0176-091-3311	236.5 x 176.5 x 91 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey	35 x 189 mm (1x)	27	275134	10	3.091

E3

## Selection Table

Product Description		Ex e terminal box 1.4404 stainless steel, (AISI 316L), brush finished						
Figure	Product Type	Dimensions (WxHxD)	Type of terminals 1	Terminal rail	Max. number of 2.5 mm <sup>2</sup> terminals	Art. No.	PS	Weight kg
	8150/1-0176-0176-091-3311	176.5 x 176.5 x 91 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey	35 x 133 mm (1x)	19	275133	10	2.540
	8150/1-0176-0116-091-3311	176.5 x 116 x 91 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , grey	35 x 133 mm (1x)	19	275132	10	2.250

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

**You can use the terminal box configurator to configure additional versions.**  
See page 387 or go online and visit [r-stahl.com/configurator](http://r-stahl.com/configurator)

## Technical Data

### Explosion Protection

IECEX gas explosion protection	Ex eb IIC T6/T5 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C ... T95 °C Db
ATEX gas explosion protection	Ex II 2 G Ex eb IIC T6/T5 Gb
ATEX dust explosion protection	Ex II 2 D Ex tb IIIC T80 °C ... T95 °C Db
EAC gas explosion protection	Ex 1Ex e d ia mb IIC T6...T3 Gb X
EAC dust explosion protection	Ex tb IIIC T80°...T135°C Db X
Certificates	ATEX (PTB), Brazil (ULB), Canada (UL), China (CQST), EAC (LPE), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), USA (UL)
Ship approval	GL
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.

### Electrical Data

Rated operational voltage AC	690 V
Current carrying capacity	max. 44 A
Notes	depend on the terminal type used and the explosion protected components

### Ambient Conditions

Ambient temperature	-60 °C ... +40 °C (IIC T6) (T80 °C) -60 °C ... +55 °C (IIC T5) (T95 °C)
---------------------	--

### Mechanical Data

Degree of protection IP (IEC 60529)	IP66
External protective conductor connection	M8
Silicone-free	No
Connection cross-section	2.5 mm <sup>2</sup>
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 397

Dimensional Drawings on the Internet [r-stahl.com](http://r-stahl.com)



- 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		•	•		•	•

Selection Table								
Product Description	Ex i terminal box							
Enclosure material	1.4301 stainless steel, (AISI 304), brush finished							
Figure	Product Type	Dimensions (WxHxD)	Type of terminals 1	Terminal rail	Max. number of 2.5 mm <sup>2</sup> terminals	Art. No.	PS	Weight kg
	8150/2-0360-0360-150-2311	360 x 360 x 150 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , blue	35 x 301 mm (1x)	52	275143	10	4.266
	8150/2-0360-0176-150-2311	360 x 176.5 x 150 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , blue	35 x 301 mm (1x)	52	275146	10	3.748
	8150/2-0176-0116-091-2311	176.5 x 116 x 91 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , blue	35 x 133 mm (1x)	19	275141	10	2.250
Product Description	Ex i terminal box							
Enclosure material	1.4404 stainless steel, (AISI 316L), brush finished							
Figure	Product Type	Dimensions (WxHxD)	Type of terminals 1	Terminal rail	Max. number of 2.5 mm <sup>2</sup> terminals	Art. No.	PS	Weight kg
	8150/2-0236-0176-091-3311	236.5 x 176.5 x 91 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , blue	35 x 189 mm (1x)	27	275147	10	3.091
	8150/2-0176-0116-091-3311	176.5 x 116 x 91 mm	1 x Phoenix UT 2-conductor, 2.5 mm <sup>2</sup> , blue	35 x 133 mm (1x)	19	275148	10	2.250

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

**You can use the terminal box configurator to configure additional versions. See page 387 or go online and visit [r-stahl.com/configurator](http://r-stahl.com/configurator)**

E3

## Technical Data

### Explosion Protection

IECEX gas explosion protection	Ex ia ib IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex ia ib IIC T6 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T80 °C Db
EAC gas explosion protection	Ⓔ 1Ex ia IIC T6...T5 Gb X
EAC dust explosion protection	Ⓔ Ex tb IIIC T80°...T95°C Db X
Certificates	ATEX (PTB), Brazil (ULB), China (COST), EAC (LPE), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)
Ship approval	GL
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.

### Electrical Data

Rated operational voltage AC	60 V
Current carrying capacity	max. 44 A
Notes	depend on the terminal type used and the explosion protected components

### Ambient Conditions

Ambient temperature	-60 °C ... +75 °C
---------------------	-------------------

### Mechanical Data

Degree of protection IP (IEC 60529)	IP66
External protective conductor connection	M8
Silicone-free	No
Connection cross-section	2.5 mm <sup>2</sup>
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
-------	---


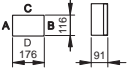
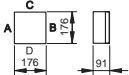
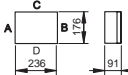
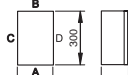

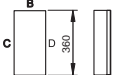
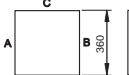
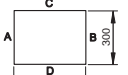


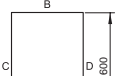
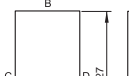
Max. number of mountable cable glands, Series 8161 found on page 397

Dimensional Drawings on the Internet [r-stahl.com](http://r-stahl.com)

**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																							
	<b>8150/-0176-116-091-3.1</b>						<b>8150/-0236-0176-091-3.1</b>						<b>8150/.0300-0200-150-3.1</b>						<b>8150/.0300-0200-150-3.1</b>					
																								
	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
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	-	-
	<b>8150/-0360-0176-091-3.1</b>						<b>8150/-0360-0360-091-3.1</b>						<b>8150/-0400-0300-150-3.1</b>						<b>8150/-0400-0400-150-3.1</b>					
																								
	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
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
	<b>8150/-0600-0400-150-3.1</b>						<b>8150/-0727-0360-150-3.1</b>																	
																								
	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	-	-												
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	-	-												

**E3**



- 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	NPT1	NPT1	NPT1	Without entry & without adaptor	8252/12-0JJJJ-111	215145	13	0.530
	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

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	NPT1/2	NPT1/2	NPT1/2	NPT1/2	8252/12-0HHHH-111	215148	13	0.640
	Without entry & without adaptor	NPT3/4	NPT3/4	NPT3/4	Without entry & without adaptor	8252/12-0IIII-111	215144	13	0.550
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
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
		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	8252/13-0KKKK-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	NPT2	NPT2	NPT2	Without entry & without adaptor	8252/14-0MMM0-111	215147	13	1.540
Cable glands must be ordered seperately.									
Further versions on the Internet <a href="http://r-stahl.com">r-stahl.com</a> - WebCode 8252A									

E3

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex d IIC T5-T6 Gb
IECEx dust explosion protection	Ex tb IIIC T80°C-95°C Db
ATEX gas explosion protection	⊕ II 2 G Ex d IIC T5-T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80°C-95°C Db
EAC gas explosion protection	Ex d IIC T6...T4 Gb X Ex d IIC T6...T4 Gb X
EAC dust explosion protection	Ex tb IIIC T80°...T130°C Db X
Certificates	ATEX (BVS), China (CQST), EAC (LPE), IECEx (BVS), India (PESO)



### Technical Data

#### Explosion Protection

Notes Product label may vary. Series devices have certification according to ATEX and IECEx.

#### 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

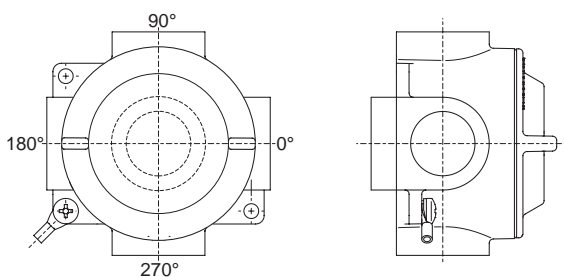
Degree of protection note according to IEC/EN 60529

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

Dimensional Drawings on the Internet [r-stahl.com](http://r-stahl.com)

### Position of Hubs



### 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
<b>Ex d</b>	unarmoured	Nickel - plated brass	Compound	PXSS2K
	all armouring <b>without</b> lead sheath		RapidEx	PXSS2KReX
			Compound	PX2K
	unarmoured		RapidEx	PX2KReX
		Nickel - plated brass / stainless steel	no	TC
	A2F			
	unarmoured / rigid Conduit connection	Nickel - plated brass		A2FRC
	unarmoured / flexible Conduit connection			A2FFC
	all armouring <b>without</b> lead sheath	Nickel - plated brass <b>with</b> double seal		T3CDS
	wire braid / steel tape armoured			E1FU
single wire / steel wire armoured (SWA)	E1FW			
all armouring <b>without</b> lead sheath	Stainless steel <b>with</b> double seal	E1FX		
		TE1FU		

Cable glands see Chapter E10, page 644

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



- 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		•	•			

E3

Selection Table						
Material	Stainless steel					
Cover mounting	Screws					
Dimensions (WxHxD)	Hinge	Volume	Product Type	Art. No.	PS	Weight kg
600 x 800 x 400 mm	with	192 cm <sup>3</sup>	8280/-41-2.11-1	263859	99	153.000
1000 x 1400 x 700 mm	with	980 cm <sup>3</sup>	8280/-62-2.11-2	264577	99	551.000
1000 x 1400 x 700 mm	with	980 cm <sup>3</sup>	8280/-62-2.21-2	267378	99	590.000

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






Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8280A

Technical Data	
Explosion Protection	
IECEx gas explosion protection	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 T5...T3 Gb
ATEX gas explosion protection	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] IIB T5...T3 Gb
Certificates	ATEX (BVS), ATEX (PTB), IECEx (BVS), IECEx (PTB)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.
Electrical Data	
Rated operational voltage AC	11 kV
Rated operational current	1250 A
Ambient Conditions	
Ambient temperature T <sub>a</sub>	-40 °C ≤ T <sub>a</sub> ≤ +60 °C
Mechanical Data	
Degree of protection (IP)	IP66

Technical Data	
Mechanical Data	
Cover seal	Silicone
Material	Stainless steel
Connection cross section max.	300 mm <sup>2</sup>
Protective conductor connection size	M6
Protective conductor connection labelling	Inside / outside on enclosure
Wall mounting:	only using mounting brackets
Stand variant:	only for SZ 62 enclosures (only possible without connection chamber)
Dimensional Drawings on the Internet <a href="http://r-stahl.com">r-stahl.com</a>	







Power Dissipation and Temperature Class				
Enclosure type	Dimensions (WxHxD)	Power dissipation Ta 40° C	Power dissipation Ta 50° C	Power dissipation Ta 60° C
8280/-41-2*	600 x 800 x 400 mm	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 mm	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

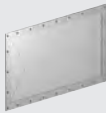
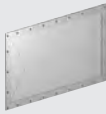
Accessories				
Figure	Description	Art. No.	PS	Weight kg
<b>Inspection window</b>				
	Inspection window available on request	-	-	-
<b>Base plate</b>				
	for enclosure size 41	262539	Z1	12.870
	for enclosure size 62	262662	Z1	37.390
<b>Stand set (contains 2 units)</b>				
	for size 62 enclosure caution: Mounting is only possible without connection chamber	269887	Z1	-
<b>Connection chamber</b>				
	Ex e connection chamber available on request	-	-	-
<b>Tubular Light Fitting with LED - Standard</b> You can find other variants online at <a href="http://r-stahl.com">r-stahl.com</a> 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	64	0.960

E3

## Accessories

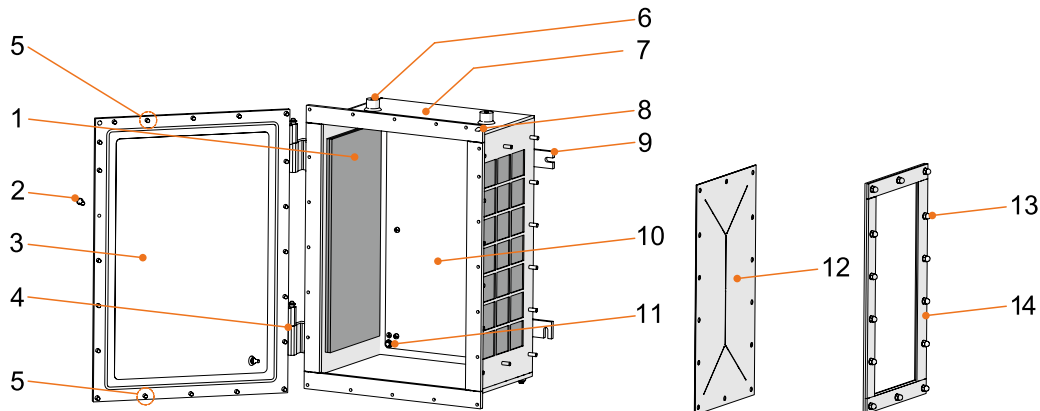
Figure	Description	Art. No.	PS	Weight kg
Tubular Light Fitting with LED - Standard You can find other variants online at r-stahl.com WebCode 6036A				
	Size 2 (Length = 762 mm), 28 W 220 - 240 V AC 209 - 240 V DC Single-row LED Cable length 2.5 m Without diffuser	251414	64	1.350
Ex d actuator				
	Series 8605 Ex d actuator available on request	-	-	-
Metal cable gland You can find other variants in chapter E10 and 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 ▲	10	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 ▲	10	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 ▲	10	0.330
Retaining / transport lugs (contains 2 pieces)				
	M10, stainless steel, thread length = 8 mm, for cover size 20, 31, 41 Packaging unit: 2 pieces	268425	Z1	-
	M14, stainless steel, thread length = 10 mm, for cover size 62 Packaging unit: 2 pieces	268427	Z1	0.480
	M12, stainless steel, thread length = 20.5 mm, for enclosure size 31, 41 Packaging unit: 2 pieces	268670	Z1	-
	M20, stainless steel, thread length = 30 mm, for enclosure size 62 Packaging unit: 2 pieces	268669	Z1	-

## Spare Parts

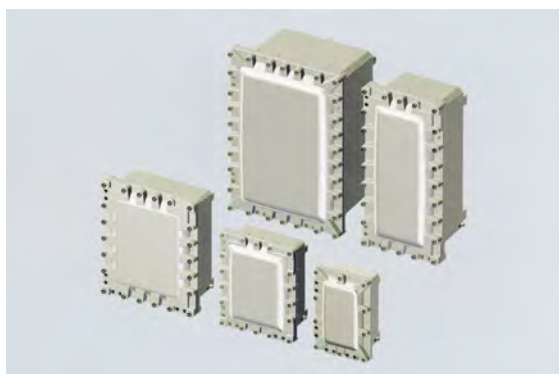
Figure	Description	Art. No.	PS	Weight kg
Bursting disc set (contains 2 units)				
	Enclosure size 41: size 324x700 mm	268230	E1	-
	Enclosure size 62: size 600x1290 mm	268228	E1	-
Bursting disc set with signal contact (2 units)				
	Enclosure size 41: size 324x700 mm	268409	E1	-
	Enclosure size 62: size 600x1290 mm	268410	E1	-

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

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



- 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		•	•		•	•

E3

Selection Table							
Enclosure material	Cast aluminium alloy AISI7mg0.3						
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
	5	360 x 540 x 300 mm	Without	8250/0-0540-0360-300-320031	226100	10	50.000

Empty enclosures without drillings


Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8250A


## Technical Data



### Explosion Protection

IECEX gas explosion protection Ex db IIB/IIB+H2 Gb

IECEX dust explosion protection Ex tb IIIC Db

ATEX gas explosion protection  II 2 G Ex db IIB/IIB+H2 Gb

ATEX dust explosion protection  II 2 D Ex tb IIIC Db

EAC gas explosion protection  Ex db IIB GbU  
 Ex db IIB+H2 Gb U

Certificates ATEX (BVS), EAC (STV), IECEX (BVS), India (PESO)

Notes Product label may vary. Series devices have certification according to ATEX and IECEX.

### Electrical Data

Notes Protective conductor connection: inside/outside on the enclosure (threaded holes), M8 threaded screw, tightening torque: 12 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

Enclosure material Cast aluminium alloy  
AlSi7mg0.3

Notes Cover lock: stainless steel socket head screw (A-80); tightening torque M8 = 15 Nm, M10 = 18 Nm  
Wall mounting: using a mounting bracket or directly into the enclosure base

Dimensional Drawings on the Internet [r-stahl.com](http://r-stahl.com)

E3



## Accessories

Figure	Description	Art. No.	PS	Weight kg
<b>Wall mounting</b>				
	Fastening tape size 1	224231	Z1	0.900
	Fastening tape size 2	224232	Z1	1.130
	Fastening tape size 3	225911	Z1	1.400
	Fastening tape size 4	225912	Z1	1.150
	Fastening tape size 5	225913	Z1	1.500
<b>Mounting plate</b>				
	for size 1	224226	Z1	0.700
	for size 2	224227	Z1	0.900
	for size 3	225906	Z1	1.750
	for size 4	225907	Z1	2.460
	for size 5	225908	Z1	3.900
<b>Mounting rail</b>				
	for enclosure size 1, including fastening material	224228	Z1	0.150
	for enclosure size 2, including fastening material	224229	Z1	0.110
	for enclosure size 3, including fastening material	225909	Z1	0.130
	for enclosures size 4 and 5, including fastening material	225910	Z1	0.180
<b>Hinge</b>				
	Hinge, size 1 to 5	224230	18	-
<b>Lubricating grease for thread gap</b>				
	Grease for low temperatures	105077	Z1	1.070

## Spare Parts

Figure	Description	Art. No.	PS	Weight kg
<b>Adhesive</b>				
	Novasil S30 transparent, 90 ml tube	230351	E1	0.020

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
- Shock resistance IK10 according to 62262-0
- 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		•	•		•	•

E3

Selection Table										
Product Description		Switch socket Standard								
Product variant		16 A								
Rated operational current		No								
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	150578 ▲	10	1.120
		7	480 - 500 V	-	Black	50 - 60 Hz	8570/11-307	150586	10	1.120
	4 P (3 P + PE)	4	100 - 130 V	-	Yellow	50 - 60 Hz	8570/11-304	150598 ▲	10	1.120
		5	100 - 130 V	-	Yellow	50 - 60 Hz	8570/11-404	218316	10	1.350
		6	600 - 690 V	-	Black	50 - 60 Hz	8570/11-405	150562	10	1.350
		7	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	150554	10	1.350
		9	200 - 250 V	-	Blue	50 - 60 Hz	8570/11-409	150558	10	1.350

## Selection Table

Product Description		Switch socket								
Product variant		Standard								
Rated operational current		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
	5 P (3 P + N + PE)	3	220 – 380 V	–	Red	50 Hz	8570/11-503	218312	10	1.450
		4	57 – 75 V / 100 – 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	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
Product Description		Switch socket								
Product variant		Variants with auxiliary contact (NO) and screw connection with plug								
Rated operational current		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)	6	380 – 415 V	–	Red	50 – 60 Hz	8570/11-406-S001	218960	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
Product Description		Switch socket								
Product variant		Variants with metal earth plate for double metal insert and stopping plug								
Rated operational current		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)	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
	4 P (3 P + PE)	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
	5 P (3 P + N + PE)	6	200 – 240 V / 346 – 415 V	–	Red	50 – 60 Hz	8570/11-506-S020	214067	10	1.450

Variants with temperature range of -50 ... +55 °C available on request; silicone is used as a sealing material

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8570A

For information on compatible plugs, see page 413

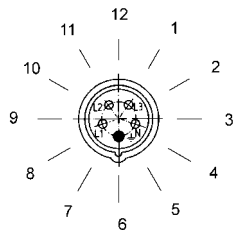
For information on cable glands and other accessories, see Chapter E10, page 648

Technical Data				
Variant	8570/11-...	8570/11-...-S001	8570/11-...-S011 8570/11-...-S012	8570/11-...-S019 8570/11-...-S020
<b>Explosion Protection</b>				
IECEX gas explosion protection	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	⊕ 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
ATEX dust explosion protection	⊕ 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
EAC gas explosion protection	⊕ 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
EAC dust explosion protection	⊕ 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 (CCVE), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)	ATEX (PTB), Brazil (ULB), EAC (CCVE), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)	ATEX (PTB), Brazil (ULB), EAC (CCVE), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)	ATEX (PTB), Brazil (ULB), EAC (CCVE), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.			
<b>Electrical Data</b>				
Rated operational voltage main contacts	max. 690 V AC / max. 110 V DC	max. 690 V AC / max. 110 V DC	max. 690 V AC / max. 110 V DC	max. 690 V AC / max. 110 V DC
Rated operational voltage auxiliary contacts	max. 500 V AC / max. 110 V DC	max. 500 V AC / max. 110 V DC	max. 500 V AC / max. 110 V DC	max. 500 V AC / max. 110 V DC
Rated operational current main contacts	16 A	16 A	16 A	16 A
Rated operational current auxiliary contacts	max. 6 A	max. 6 A	max. 6 A	max. 6 A
Rated operational current note	optional up to 20 A	optional up to 20 A	optional up to 20 A	optional up to 20 A
Switching capacity main contacts	AC-3: 690 V, 16 A 4 kW: 220 V / 230 V / 240 V 7,5 kW: 380 V / 400 V / 415 V / 500 V 11 kW: 600 V / 690 V DC-1: 110 V, 16 A	AC-3: 690 V, 16 A 4 kW: 220 V / 230 V / 240 V 7,5 kW: 380 V / 400 V / 415 V / 500 V 11 kW: 600 V / 690 V DC-1: 110 V, 16 A	AC-3: 690 V, 16 A 4 kW: 220 V / 230 V / 240 V 7,5 kW: 380 V / 400 V / 415 V / 500 V 11 kW: 600 V / 690 V DC-1: 110 V, 16 A	AC-3: 690 V, 16 A 4 kW: 220 V / 230 V / 240 V 7,5 kW: 380 V / 400 V / 415 V / 500 V 11 kW: 600 V / 690 V DC-1: 110 V, 16 A
Switching capacity auxiliary contacts	AC-15: 500 V, max. 1250 VA AC-15: 230 V, max. 1380 VA AC-12: 500 V, max. 3000 VA DC-13: 110 V, 110 W	AC-15: 500 V, max. 1250 VA AC-15: 230 V, max. 1380 VA AC-12: 500 V, max. 3000 VA DC-13: 110 V, 110 W	AC-15: 500 V, max. 1250 VA AC-15: 230 V, max. 1380 VA AC-12: 500 V, max. 3000 VA DC-13: 110 V, 110 W	AC-15: 500 V, max. 1250 VA AC-15: 230 V, max. 1380 VA AC-12: 500 V, max. 3000 VA DC-13: 110 V, 110 W
Interlocked switch	max. 4 pole switch 2 optional auxiliary contacts (ON - delayed, OFF - advanced)	max. 4 pole switch 2 optional auxiliary contacts (ON - delayed, OFF - advanced)	max. 4 pole switch 2 optional auxiliary contacts (ON - delayed, OFF - advanced)	max. 4 pole switch 2 optional auxiliary contacts (ON - delayed, OFF - advanced)
<b>Ambient Conditions</b>				
Ambient temperature	-30 °C ... +55 °C (max. 16 A)	-30 °C ... +55 °C	-30 °C ... +55 °C	-30 °C ... +55 °C
Notes	Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.			
<b>Mechanical Data</b>				
Degree of protection (IP)	IP66	IP66	IP66	IP66
Degree 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 <sup>2</sup>	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>
Connection terminals solid max.	2 x 6 mm <sup>2</sup>	2 x 6 mm <sup>2</sup>	2 x 6 mm <sup>2</sup>	2 x 6 mm <sup>2</sup>
Connection terminals finely-stranded max.	2 x 4 mm <sup>2</sup>	2 x 4 mm <sup>2</sup>	2 x 4 mm <sup>2</sup>	2 x 4 mm <sup>2</sup>
Lockable in	in 0- and I-position	in 0- and I-position	in 0- and I-position	in 0- and I-position
<b>Components</b>				
Plate with threaded holes			With 2 x M25 x 1.5	With 2 x M25-M20 x 1,5
Cable glands	1 x M25 x 1.5	2 x M25 x 1.5	Can be ordered as accessories	Can be ordered as accessories
Cable diameter	7 ... 17 mm	7 ... 17 mm		
Material cable gland	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 x 1.5		2 x M25 x 1.5	1 x M20 x 1.5
Stopping plug material	Polyamide, black		Polyamide, black	Polyamide, black
Notes	Plate with threaded holes: made of brass, for metal cable glands Screw connection positions: Bottom (standard); can also be positioned on the top or side depending on the order			
You can find more technical data online at <a href="http://r-stahl.com">r-stahl.com</a>				
Accessories found on page 446				
Dimensional Drawings on the Internet <a href="http://r-stahl.com">r-stahl.com</a>				

### Arrangement of the Earth Contact Sleeves

Example:  
Clock hour position,  
Front view of socket



Example:  
Clock hour position

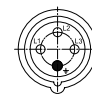


230 V = 6 h

Marking of connections  
Front view of socket



2 P + PE



3 P + PE



3 P + N + PE



- For use in Zones 1, 2, 21 and 22 worldwide
- Degree of protection IP66
- Extreme temperature range of -50 ... +55 °C
- Shock resistance IK10 according to 62262-0
- 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		•	•		•	•

Selection Table										
Product Description Rated operational current Auxiliary contacts available								Plug 12 A 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
	4 P (3 P + PE)	10	51 – 690 V	–	Green	100 – 300 Hz	8570/12-410	258044	10	0.384
Product Description Rated operational current Auxiliary contacts available								Plug 16 A 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	–	8570/12-303	257777	10	0.331
		6	200 – 250 V	–	Blue	50 – 60 Hz	8570/12-306	257780 ▲	10	0.331
		7	480 – 500 V	–	Black	50 – 60 Hz	8570/12-307	257970	10	0.331
	3 P (1 P + N + PE)	4	100 – 130 V	–	Yellow	50 – 60 Hz	8570/12-304	257778 ▲	10	0.331
	4 P (3 P + PE)	4	100 – 130 V	–	Yellow	50 – 60 Hz	8570/12-404	258047	10	0.384
		5	600 – 690 V	–	Black	50 – 60 Hz	8570/12-405	258042	10	0.384
		6	380 – 415 V	–	Red	50 – 60 Hz	8570/12-406	258039	10	0.384
		7	480 – 500 V	–	Black	50 – 60 Hz	8570/12-407	258040	10	0.384
		9	200 – 250 V	–	Blue	50 – 60 Hz	8570/12-409	258041	10	0.384
		11	440 – 460 V	–	Red	60 Hz	8570/12-411	258043	10	0.384

E3

### Selection Table

Product Description		Plug								
Rated operational current		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
	5 P (3 P + N + PE)	3	220 – 380 V	–	Red	50 Hz	8570/12-503	258037	10	0.444
		4	57 – 75 V / 100 – 130 V	–	Yellow	50 – 60 Hz	8570/12-504	258038	10	0.444
		5	347 – 400 V / 600 – 690 V	–	Black	50 – 60 Hz	8570/12-505	258035	10	0.444
		6	200 – 240 V / 346 – 415 V	–	Red	50 – 60 Hz	8570/12-506	258032	10	0.444
		7	277 – 288 V / 480 – 500 V	–	Black	50 – 60 Hz	8570/12-507	258033	10	0.444
		9	120 – 144 V / 208 – 250 V	–	Blue	50 – 60 Hz	8570/12-509	258034	10	0.444

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8570E

### Technical Data

Explosion Protection	
IECEX gas explosion protection	Ex db eb IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	Ⓜ II 2 G Ex db eb IIC T6 Gb
ATEX dust explosion protection	Ⓜ II 2 D Ex tb IIIC T80 °C Db
EAC gas explosion protection	Ex 2 Ex de IIC T6 Ex 2 Ex de [ia] IIC T6
EAC dust explosion protection	Ex tD A21 IP66 T80 °C
Certificates	ATEX (PTB), Brazil (ULB), EAC (CCVE), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.
Electrical Data	
Rated operational voltage main contacts	max. 690 V AC / max. 110 V DC
Rated operational voltage auxiliary contacts	max. 500 V AC / max. 110 V DC
Rated operational current main contacts	16 A
Rated operational current auxiliary contacts	max. 6 A
Switching capacity main contacts	AC-3: 690 V, 16 A 4 kW: 220 V / 230 V / 240 V 7,5 kW: 380 V / 400 V / 415 V / 500 V 11 kW: 600 V / 690 V DC-1: 110 V, 16 A
Switching capacity auxiliary contacts	AC-15: 500 V, max. 1250 VA AC-15: 230 V, max. 1380 VA AC-12: 500 V, max. 3000 VA DC-13: 110 V, 110 W
Interlocked switch	max. 4 pole switch 2 optional auxiliary contacts (ON - delayed, OFF - advanced)
Ambient Conditions	
Ambient temperature	-50 °C ... +55 °C
Notes	Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.
Mechanical Data	
Degree of protection (IP)	IP66
Degree of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	No
Silicone-free note	Optional: Silicone-free variant (ambient temperature -30 °C to +55 °C)
Connection terminals min.	1.5 mm <sup>2</sup>
Connection terminals finely-stranded max.	2 x 4 mm <sup>2</sup>

**Technical Data**

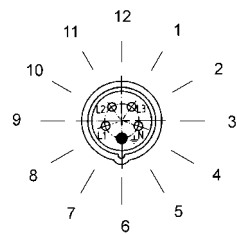
Components	
Cable diameter	8 ... 18 mm

Accessories found on page 446

Dimensional Drawings on the Internet [r-stahl.com](http://r-stahl.com)

**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





- 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									
Product Description	Coupler socket								
Rated operational current	16 A								
Auxiliary contacts available	No								
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	3 P (2 P + PE)	6	200 – 250 V	Blue	50 – 60 Hz	8570/16-306	150662	10	2.100
	4 P (3 P + PE)	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
	5 P (3 P + N + PE)	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

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8570B

### Technical Data

#### Explosion Protection

IECEx gas explosion protection	Ex db eb IIC T6 Gb
IECEx dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex db eb IIC T6 Gb

Technical Data	
Explosion Protection	
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C Db
EAC gas explosion protection	⊕ 2 Ex de IIC T6 ⊕ 2 Ex de [ia] IIC T6
EAC dust explosion protection	⊕ Ex tD A21 IP66 T80 °C
Certificates	ATEX (PTB), Brazil (ULB), EAC (CCVE), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.
Ambient Conditions	
Ambient temperature	-30 °C ... +55 °C (max. 16 A)
Mechanical Data	
Degree of protection (IP)	IP66
Degree of protection note	according to IEC/EN 60529
Enclosure material	Polyamide
Material mounting frame	Stainless steel
Connection terminals min.	1.5 mm <sup>2</sup>
Connection terminals solid max.	6 mm <sup>2</sup>
Connection terminals finely-stranded max.	4 mm <sup>2</sup>
Components	
Cable glands	1 x M25 x 1.5
Cable diameter	13 ... 18 mm
Material cable gland	Polyamide, black
Stopping plug	1 x M25 x 1.5
Stopping plug material	Polyamide, black
Further technical data see Wall-mounting Sockets 16 A Series 8570/11 page 409	
Cable glands and other accessories see Chapter E10, page 648	
Dimensional Drawings on the Internet <a href="http://r-stahl.com">r-stahl.com</a>	



- 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		•	•		•	•

E3

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

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8571F

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex db eb IIC T5/T6 Gb
IECEx dust explosion protection	Ex tb IIIC T75 °C ... T60 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db eb IIC T5/T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T75 °C ... T60 °C Db
Certificates	ATEX (PTB), Brazil (ULB), IECEx (PTB), India (PESO), Taiwan (ITRI)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.

Technical Data	
Ambient Conditions	
Ambient temperature	-30 °C ... +55 °C (IIC T5) (T75 °C) (max. 32 A) -30 °C ... +40 °C (IIC T6) (T60 °C) (max. 32 A)
Mechanical Data	
Degree of protection (IP)	IP66
Degree of protection note	according to IEC/EN 60529
Enclosure material	Polyamide
Material mounting frame	Stainless steel
Connection terminals min.	2.5 mm <sup>2</sup>
Connection terminals solid max.	10 mm <sup>2</sup>
Connection terminals finely-stranded max.	6 mm <sup>2</sup>
Components	
Cable glands	1 x M32 x 1.5
Cable diameter	18 ... 25 mm
Material cable gland	Polyamide, black
Stopping plug	1 x M32 x 1.5
Stopping plug material	Polyamide, black
Further technical data see Wall-mounting Sockets 32 A Series 8571/11 page 433	
Cable glands and other accessories see Chapter E10, page 648	
Dimensional Drawings on the Internet <a href="http://r-stahl.com">r-stahl.com</a>	



- 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**



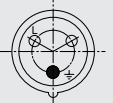
The sockets in the new R. STAHL Series 8572/13 are 16 A compact sockets for voltages up to 277 V. Self-cleaning lamellar contacts provide optimum contact. Compact dimensions and a deep-drawn enclosure are required for fast electrical installation. The integrated locking mechanism prevents disconnection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

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

E3

Selection Table										
Product Description		Small socket								
Rated operational current		10 – 12 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
	2 P + PE	2	51 – 277 V	–	Green	300 – 500 Hz	8572/13-302	242338	10	0.380
Product Description		Small socket								
Rated operational current		10 – 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
	1 P + N + PE	4	100 – 130 V	–	Yellow	50 – 60 Hz	8572/13-304	242336	10	0.380
	2 P + PE	6	200 – 250 V	–	Blue	50 – 60 Hz	8572/13-306	242334 ▲	10	0.380

## Selection Table

Product Description	Small socket to an isolation transformer									
Rated operational current	10 – 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
	2 P + PE	12	50 – 250 V	-	Blue	50 – 60 Hz	8572/13-312	242339	10	0.380

For information on compatible plugs, see page 413  
 For information on cable glands, see Chapter E10, page 648

## Technical Data

Variant	Wall-Mounting Socket, Compact	
<b>Explosion Protection</b>		
IECEX gas explosion protection	Ex db eb IIC T6 Gb	
IECEX dust explosion protection	Ex tb IIIC T75 °C Db	
ATEX gas explosion protection	Ⓔ II 2 G Ex db eb IIC T6 Gb	
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T75 °C Db	
EAC gas explosion protection	Ⓔ 1 Ex db e IIC T6 Gb	
EAC dust explosion protection	Ⓔ Ex tb IIC T75 °C Db Ⓔ Ex tb IIIC T60 °C...T75°C Db	
Certificates	ATEX (PTB), China (CQST), EAC (CCVE), IECEx (PTB)	
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.	
<b>Electrical Data</b>		
Notes	Current	Ambient temperature
	16 A [2.5 mm <sup>2</sup> ]	T <sub>a</sub> = 45 °C
	12 A [2.5 mm <sup>2</sup> ]	T <sub>a</sub> = 55 °C
	10 A [2.5 mm <sup>2</sup> ]	T <sub>a</sub> = 65 °C
	The current must be reduced to 12 A for frequencies > 100 Hz	
<b>Ambient Conditions</b>		
Ambient temperature	-50 °C ... +45 °C (max. 16 A) -50 °C ... +55 °C (max. 12 A) -50 °C ... +65 °C (max. 10 A)	
Notes	Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.	
<b>Mechanical Data</b>		
Degree of protection (IP)	IP66	
Degree of protection note	according to IEC/EN 60529	
Enclosure material	Polyamide, Glass fibre reinforced	
Silicone-free	No	
Silicone-free note	Optional: Silicone-free variant (ambient temperature -40 °C to +65 °C)	
Connection terminals min.	0.75 mm <sup>2</sup>	
Connection terminals solid max.	2 x 4 mm <sup>2</sup>	
Connection terminals finely-stranded max.	2 x 4 mm <sup>2</sup>	
<b>Components</b>		
Cable glands	1 x M25 x 1.5	
Cable diameter	7 ... 17 mm	
Cable diameter note	7 ... 12 mm with reduction sealing insert	
Material cable gland	Polyamide, black	
Stopping plug	1 x M25 x 1.5	
Stopping plug material	Polyamide, black	

## Technical Data

**Variant** Wall-Mounting Socket, Compact

### Components

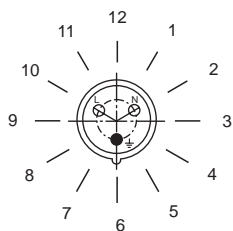
**Notes** Screw connection positions: Bottom (standard); can also be positioned on the top or side depending on the order optional: on the top max. 2 x M25 x 1.5 also available with stopping plugs or metallic entries

Accessories found on page 446

Dimensional Drawings on the Internet [r-stahl.com](http://r-stahl.com)

## 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



- 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.

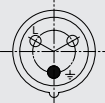
	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table											
Product Description		Coupler socket									
Rated operational current		10 – 12 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	
	2 P + PE	2	51 – 277 V	–	Green	300 – 500 Hz	8572/14-302	242345	10	0.380	
Product Description		Coupler socket									
Rated operational current		10 – 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	
	1 P + N + PE	4	100 – 130 V	–	Yellow	50 – 60 Hz	8572/14-304	242343 ▲	10	0.380	
		5	277 V	–	Light grey	60 Hz	8572/14-305	242342	10	0.380	
	2 P + PE	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

Product Description		Coupler socket to an isolation transformer								
Rated operational current		10 – 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
	2 P + PE	12	50 – 250 V	-	Blue	50 – 60 Hz	8572/14-312	242346	10	0.380

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8572B

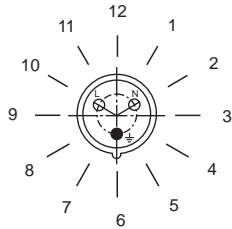
For information on compatible plugs, see page 413

## Technical Data

Variant	Coupler socket
<b>Explosion Protection</b>	
IECEx gas explosion protection	Ex db eb IIC T6 Gb
IECEx dust explosion protection	Ex tb IIIC T75 °C Db
ATEX gas explosion protection	Ⓜ II 2 G Ex db eb IIC T6 Gb
ATEX dust explosion protection	Ⓜ II 2 D Ex tb IIIC T75 °C Db
EAC gas explosion protection	Ⓜ 1 Ex db e IIC T6 Gb
EAC dust explosion protection	Ⓜ Ex tb IIC T75 °C Db Ⓜ Ex tb IIIC T60 °C...T75°C Db
<b>Certificates</b>	ATEX (PTB), China (CQST), EAC (CCVE), IECEx (PTB)
<b>Notes</b>	Product label may vary. Series devices have certification according to ATEX and IECEx.
<b>Electrical Data</b>	
<b>Notes</b>	The current must be reduced to 12 A for frequencies > 100 Hz
<b>Ambient Conditions</b>	
Ambient temperature	-50 °C ... +45 °C (max. 16 A) -50 °C ... +55 °C (max. 12 A) -50 °C ... +65 °C (max. 10 A)
<b>Notes</b>	Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.
<b>Mechanical Data</b>	
Degree of protection (IP)	IP66
Degree of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	No
Silicone-free note	Optional: Silicone-free variant (ambient temperature -40 °C to +65 °C)
Connection terminals min.	0.75 mm <sup>2</sup>
Connection terminals finely-stranded max.	1 x 4 mm <sup>2</sup>
<b>Components</b>	
Cable diameter	8 ... 15 mm
Accessories found on page 446	
Dimensional Drawings on the Internet <a href="http://r-stahl.com">r-stahl.com</a>	

## 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



- 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

Product Description		Small socket								
Rated operational current		10 – 12 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	4	20 – 25 V / 40 – 50 V	–	Green	100 – 200 Hz	8573/13-304	243153	10	0.300
Product Description		Small socket								
Rated operational current		10 – 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
	2 P	0	20 – 25 V	–	Violet	50 – 60 Hz	8573/13-200	243157 ▲	10	0.300
	3 P	0	20 – 25 V	–	Violet	50 – 60 Hz	8573/13-300	241380 ▲	10	0.300

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8573B

For information on compatible plugs, see page 429  
For information on cable glands, see Chapter E10, page 648

## Technical Data

### Explosion Protection

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

**Certificates** ATEX (PTB), EAC (CCVE), IECEX (PTB)

**Notes** Product label may vary. Series devices have certification according to ATEX and IECEX.

### Electrical Data

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

### Ambient Conditions

<b>Ambient temperature</b>	-50 °C ... +40 °C (max. 16 A)
	-50 °C ... +55 °C (max. 12 A)
	-50 °C ... +60 °C (max. 10 A)

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

### Mechanical Data

<b>Degree of protection (IP)</b>	IP66
<b>Degree of protection note</b>	according to IEC/EN 60529
<b>Enclosure material</b>	Polyamide, Glass fibre reinforced
<b>Silicone-free</b>	No
<b>Silicone-free note</b>	Optional: Silicone-free variant (ambient temperature -40 °C to +60 °C)
<b>Connection terminals min.</b>	0.75 mm <sup>2</sup>
<b>Connection terminals solid max.</b>	2 x 4 mm <sup>2</sup>
<b>Connection terminals finely-stranded max.</b>	2 x 4 mm <sup>2</sup>

### Components

<b>Cable glands</b>	1 x M25 x 1.5
<b>Cable diameter</b>	7 ... 17 mm
<b>Material cable gland</b>	Polyamide, black
<b>Stopping plug</b>	1 x M25 x 1.5
<b>Stopping plug material</b>	Polyamide, black

**Notes** Cable glands: 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

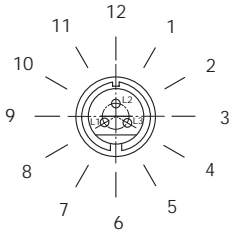
Accessories found on page 446

Dimensional Drawings on the Internet [r-stahl.com](http://r-stahl.com)

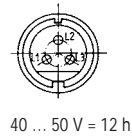
E3

## Arrangement of the Earth Contact Sleeves

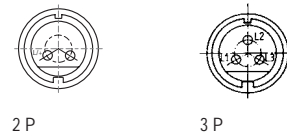
Example:  
Clock hour position,  
Front view of socket

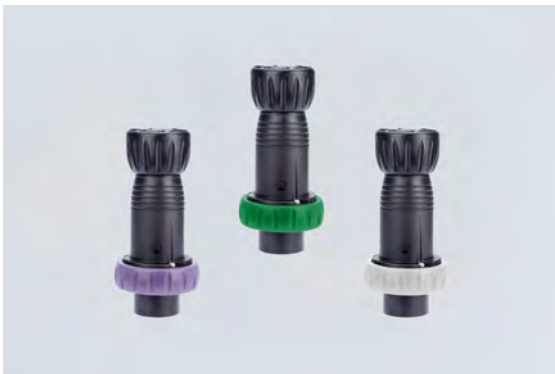


Example:  
Clock hour position



Marking of connections  
Front view of socket





- 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										
Product Description		Plug								
Rated operational current		12 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	4	20 – 25 V / 40 – 50 V	–	Green	100 – 200 Hz	8573/12-304	243193	10	0.300
Product Description		Plug								
Rated operational current		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
	2 P	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
	3 P	0	20 – 25 V	–	Violet	50 – 60 Hz	8573/12-300	243190 ▲	10	0.300

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8573D

## Technical Data

### Explosion Protection

IECEX gas explosion protection	Ex eb IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T70 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex eb IIC T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T70 °C Db
EAC gas explosion protection	Ⓜ 1 Ex db e IIC T6 Gb
EAC dust explosion protection	Ⓜ Ex tb IIIC T70 °C Db Ⓜ Ex tb IIIC T60 °C...T75°C Db

### Certificates

ATEX (PTB), EAC (CCVE), IECEX (PTB)

### Notes

Product label may vary. Series devices have certification according to ATEX and IECEX.

### Ambient Conditions

Ambient temperature	-50 °C ... +40 °C (max. 16 A) -50 °C ... +55 °C (max. 12 A) -50 °C ... +60 °C (max. 10 A)
---------------------	---

### Notes

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

### Mechanical Data

Degree of protection (IP)	IP66
Degree of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	No
Silicone-free note	Optional: Silicone-free variant (ambient temperature -40 °C to +60 °C)
Connection terminals min.	0.75 mm <sup>2</sup>
Connection terminals finely-stranded max.	1 x 4 mm <sup>2</sup>

### Components

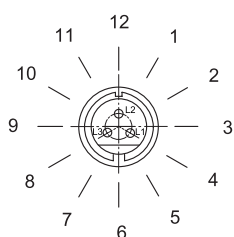
Cable diameter	8 ... 15 mm
----------------	-------------

Accessories found on page 446

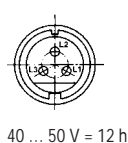
Dimensional Drawings on the Internet [r-stahl.com](http://r-stahl.com)

## Arrangement of the Earth Contact Sleeves

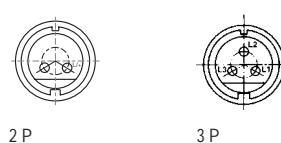
Example:  
Clock hour position,  
Front view of plug



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 ... +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		•	•		•	•

Selection Table									
Product Description		Coupler socket							
Rated operational current		10 – 12 A							
Auxiliary contacts available		10 A No							
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	3 P	4	20 – 25 V / 40 – 50 V	Green	100 ... 200 Hz	8573/14-304	243178	10	0.300
Product Description		Coupler socket							
Rated operational current		10 – 16 A							
Auxiliary contacts available		10 – 12 A No							
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	2 P	0	20 – 25 V	Violet	50 / 60 Hz	8573/14-200	243182	10	0.300
	3 P	0	20 – 25 V	Violet	50 / 60 Hz	8573/14-300	243175	10	0.300

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8573C

For information on compatible plugs, see page 429

E3



## Technical Data

### Explosion Protection

IECEX gas explosion protection	Ex db eb IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T70 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db eb IIC T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T70 °C Db
EAC gas explosion protection	Ⓜ 1 Ex db e IIC T6 Gb
EAC dust explosion protection	Ⓜ Ex tb IIIC T70 °C Db Ⓜ Ex tb IIIC T60 °C...T75°C Db

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

**Notes** Product label may vary. Series devices have certification according to ATEX and IECEx.

### Electrical Data

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

### Ambient Conditions

Ambient temperature	-50 °C ... +40 °C (max. 16 A) -50 °C ... +55 °C (max. 12 A) -50 °C ... +60 °C (max. 10 A)
---------------------	---

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

### Mechanical Data

Degree of protection (IP)	IP66
Degree of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	No
Silicone-free note	Optional: Silicone-free variant (ambient temperature -40 °C to +60 °C)
Connection terminals min.	0.75 mm <sup>2</sup>
Connection terminals finely-stranded max.	1 x 4 mm <sup>2</sup>

### Components

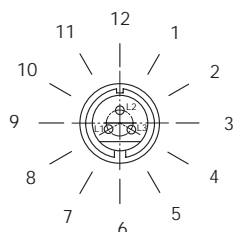
Cable diameter	8 ... 15 mm
----------------	-------------

Accessories found on page 446

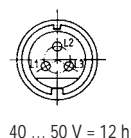
Dimensional Drawings on the Internet [r-stahl.com](http://r-stahl.com)

## Arrangement of the Earth Contact Sleeves

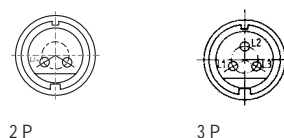
Example:  
Clock hour position,  
Front view of socket



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
- Shock resistance IK09 according to 62262-0

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									
Product Description	Switch socket								
Rated operational current	32 A								
Auxiliary contacts available	No								
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	4 P (3 P + PE)	5	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	150890▲	10	2.200
		7	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	150898	10	2.200
		11	440 – 460 V	Red	60 Hz	8571/11-411	150910	10	2.200
	5 P (3 P + N + PE)	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-S012	214069	10	2.200
		6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8571/11-506	150854▲	10	2.200
		7	277 – 288 V / 480 – 500 V	Black	50 – 60 Hz	8571/11-507	150863	10	2.200

### Selection Table

Product Description		Switch socket							
Rated operational current		32 A							
Auxiliary contacts available		Yes							
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	4 P (3 P + PE)	7	480 – 500 V	Black	50 – 60 Hz	8571/11-407-S001	166610	10	2.200

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

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8571A

For information on compatible plugs, see page 436

For information on cable glands and other accessories, see Chapter E10, page 648

### Technical Data

Variant	8571/11-...	8571/11-...-S001	8571/11-...-S012
<b>Explosion Protection</b>			
IECEX gas explosion protection	Ex db eb IIC T5/T6 Gb	Ex db eb IIC T5/T6 Gb	Ex db eb IIC T5/T6 Gb
IECEX dust explosion protection	Ex tb IIIC T75 °C ... T60 °C Db	Ex tb IIIC T75 °C ... T60 °C Db	Ex tb IIIC T75 °C ... T60 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db eb IIC T5/T6 Gb	⊕ II 2 G Ex db eb IIC T5/T6 Gb	⊕ II 2 G Ex db eb IIC T5/T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T75 °C ... T60 °C Db	⊕ II 2 D Ex tb IIIC T75 °C ... T60 °C Db	⊕ II 2 D Ex tb IIIC T75 °C ... T60 °C Db
Certificates	ATEX (PTB), Brazil (ULB), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)	ATEX (PTB), Brazil (ULB), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)	ATEX (PTB), Brazil (ULB), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.		
<b>Electrical Data</b>			
Notes	The current must be reduced to 25 A for frequencies > 100 Hz		
<b>Ambient Conditions</b>			
Ambient temperature	-30 °C ... +55 °C (IIC T5) (T75 °C) (max. 32 A) -30 °C ... +40 °C (IIC T6) (T60 °C) (max. 32 A)	-30 °C ... +55 °C (IIC T5) (T75 °C) -30 °C ... +40 °C (IIC T6) (T60 °C)	-30 °C ... +55 °C (IIC T5) (T75 °C) -30 °C ... +40 °C (IIC T6) (T60 °C)
Notes	Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.		
<b>Mechanical Data</b>			
Degree of protection (IP)	IP66	IP66	IP66
Degree 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 <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Connection terminals solid max.	2 x 10 mm <sup>2</sup>	2 x 10 mm <sup>2</sup>	2 x 10 mm <sup>2</sup>
Connection terminals finely-stranded max.	2 x 6 mm <sup>2</sup>	2 x 6 mm <sup>2</sup>	2 x 6 mm <sup>2</sup>
<b>Components</b>			
Plate with threaded holes			With 2 x M32 x 1.5
Cable glands	1 x M32 x 1.5	1 x M32 1 x M25 x 1.5	Can be ordered as accessories
Cable diameter	9 ... 21 mm	9 ... 21 mm	
Cable diameter 2		7 – 17 mm	
Material cable gland	Polyamide, black	Polyamide, black	
Stopping plug	1 x M32 x 1.5		1 x M32 x 1.5
Stopping plug material	Polyamide, black		Polyamide, black
Notes	Plate with threaded holes: made of brass, for metal cable glands Cable glands: positioning on the top or at the side, according to the order		

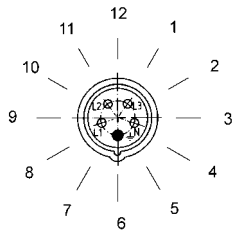
You can find more technical data online at [r-stahl.com](http://r-stahl.com)

Accessories found on page 446

Dimensional Drawings on the Internet [r-stahl.com](http://r-stahl.com)

## 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





- For use in Zones 1, 2, 21 and 22 worldwide
- Degree of protection IP66
- Extreme temperature range of -50 ... +55 °C
- Shock resistance IK09 according to 62262-0
- 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		•	•		•	•

E3

Selection Table									
Product Description	Plug 32 A								
Rated operational current	No								
Auxiliary contacts available	No								
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	4 P (3 P + PE)	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 Hz	8571/12-411	150911	10	0.500
	5 P (3 P + N + PE)	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

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

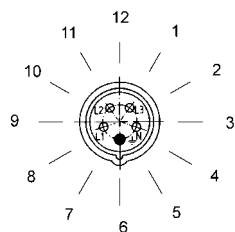
Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8571E

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex db eb IIC T5/T6 Gb
IECEx dust explosion protection	Ex tb IIIC T75 °C ... T60 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex db eb IIC T5/T6 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T75 °C ... T60 °C Db

Technical Data	
Explosion Protection	
Certificates	ATEX (PTB), Brazil (ULB), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.
Electrical Data	
Notes	The current must be reduced to 25 A for frequencies > 100 Hz
Ambient Conditions	
Ambient temperature	-30 °C ... +55 °C (IIC T5) (T75 °C) -30 °C ... +40 °C (IIC T6) (T60 °C)
Notes	Silicone is used as a sealing material for variants with an ambient temperature of -50 °C.
Mechanical Data	
Degree of protection (IP)	IP66
Degree of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	Yes
Silicone-free note	Optional: Silicone-free variant (ambient temperature -50 °C to +65 °C)
Connection terminals min.	2.5 mm <sup>2</sup>
Connection terminals finely-stranded max.	2 x 10 mm <sup>2</sup>
Components	
Cable diameter	13 ... 28 mm
Accessories found on page 446	
Dimensional Drawings on the Internet <a href="http://r-stahl.com">r-stahl.com</a>	

## Arrangement of the Earth Contact Sleeves

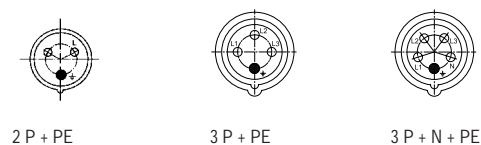
Example:  
Clock hour position,  
Front view of plug



Example:  
Clock hour position



Marking of connections  
Front view of plug



E3



- 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
- An integrated auxiliary contact for control and signalling purposes, can be optionally enhanced using pluggable Ex e or Ex i auxiliary contacts that are easily retrofittable
- With AC-3 motor switching capacity according to IEC/EN 60947-3
- Shock resistance IK09 according to 62262-0

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

Product Description		Switch socket							
Rated operational current		63 A							
Auxiliary contacts available		Yes							
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	4 P (3 P + PE)	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-S002	203496	10	7.800
		6	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
		11	440 – 460 V	Red	60 Hz	8579/31-411	202026	10	7.800
	5 P (3 P + N + PE)	6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8579/31-506-S001	203493	10	7.800
		6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8579/31-506-S002	203495	10	7.800
		6	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
		11	250 – 265 V / 440 – 460 V	Red	60 Hz	8579/31-511	203512	10	7.800

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8579A

For information on compatible plugs, see page 440

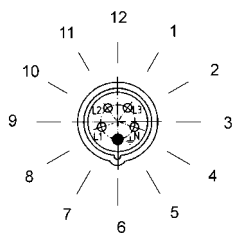
For information on cable glands and other accessories, see Chapter E10, page 648

Technical Data			
Variant	8579/31-...	8579/31-...-S001	8579/31-...-S002
Explosion Protection			
IECEX gas explosion protection	Ex db eb IIC T5/T6 Gb	Ex db eb IIC T5/T6 Gb	Ex db eb IIC T5/T6 Gb
IECEX dust explosion protection	Ex tb IIIC T75 °C ... T60 °C Db	Ex tb IIIC T75 °C ... T60 °C Db	Ex tb IIIC T75 °C ... T60 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db eb IIC T5/T6 Gb	⊕ II 2 G Ex db eb IIC T5/T6 Gb	⊕ II 2 G Ex db eb IIC T5/T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T75 °C ... T60 °C Db	⊕ II 2 D Ex tb IIIC T75 °C ... T60 °C Db	⊕ II 2 D Ex tb IIIC T75 °C ... T60 °C Db
EAC gas explosion protection	Ex 1 Ex d e IIC T6/T5 Gb Ex 1 Ex d e [ib] IIC T6/T5 Gb	Ex 1 Ex d e IIC T6/T5 Gb Ex 1 Ex d e [ib] IIC T6/T5 Gb	Ex 1 Ex d e IIC T6/T5 Gb Ex 1 Ex d e [ib] IIC T6/T5 Gb
EAC dust explosion protection	Ex tb IIIC T65 °C...T75 °C Db	Ex tb IIIC T65 °C...T75 °C Db	Ex tb IIIC T65 °C...T75 °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)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.		
Ambient Conditions			
Ambient temperature	-30 °C ... +55 °C (IIC T5) (T75 °C) (max. 63 A) -30 °C ... +40 °C (IIC T6) (T60 °C) (max. 63 A)	-30 °C ... +55 °C (IIC T5) (T75 °C) -30 °C ... +40 °C (IIC T6) (T60 °C)	-30 °C ... +55 °C (IIC T5) (T75 °C) -30 °C ... +40 °C (IIC T6) (T60 °C)
Notes	T6: 63 A -30 °C ≤ T <sub>a</sub> ≤ +40 °C T6: 50 A -30 °C ≤ T <sub>a</sub> ≤ +50 °C T5: 63 A -30 °C ≤ T <sub>a</sub> ≤ +55 °C		
Mechanical Data			
Degree of protection (IP)	IP66	IP66	IP66
Degree of protection note	according to IEC/EN 60529	according to IEC/EN 60529	according to IEC/EN 60529
Enclosure material	Polyester, Glass fibre reinforced	Polyester, Glass fibre reinforced	Polyester, Glass fibre reinforced
Silicone-free note	Optional: Silicone-free variant (ambient temperature -30 °C to +65 °C)	Optional: Silicone-free variant (ambient temperature -30 °C to +65 °C)	Optional: Silicone-free variant (ambient temperature -30 °C to +65 °C)
Silicone-free	No	No	No
Connection terminals min.	16 mm <sup>2</sup>	16 mm <sup>2</sup>	16 mm <sup>2</sup>
Connection terminals finely-stranded max.	2 x 50 mm <sup>2</sup>	2 x 50 mm <sup>2</sup>	2 x 50 mm <sup>2</sup>
Connection terminals stranded max.	2 x 50 mm <sup>2</sup>	2 x 50 mm <sup>2</sup>	2 x 50 mm <sup>2</sup>
Components			
Plate with threaded holes		With 1 x M42-M40 x 1,5	With 1 x M42-M50 x 1,5
Cable glands	1 x M50 x 1.5	Can be ordered as accessories	Can be ordered as accessories
Cable diameter	16 ... 35 mm		
Material cable gland	Polyamide, black		
Stopping plug	1 x M25 x 1.5	1 x M40 x 1.5	1 x M50 x 1.5
Stopping plug material	Polyamide, black	Polyamide, black	Polyamide, black
Notes	Plate with threaded holes: made of brass, for metal cable glands		
Accessories found on page 446			
Dimensional Drawings on the Internet r-stahl.com			

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







- Suitable for Zones 1, 2, 21 and 22 worldwide
- Degree of protection IP66
- Extreme temperature range of -45 ... +55 °C
- Shock resistance IK09 according to 62262-0
- 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

Product Description		Plug							
Rated operational current		63 A							
Auxiliary contacts available		No							
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	4 P (3 P + PE)	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
		11	440 – 460 V	Red	60 Hz	8579/12-411	203781▲	10	0.940
	5 P (3 P + N + PE)	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
		11	250 – 265 V / 440 – 460 V	Red	60 Hz	8579/12-511	203784	10	0.940

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

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8579E

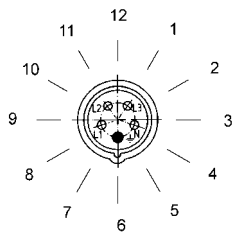
Technical Data

Explosion Protection	
IECEx gas explosion protection	Ex db eb IIC T5/T6 Gb
IECEx dust explosion protection	Ex tb IIIC T75 °C ... T60 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db eb IIC T5/T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T75 °C ... T60 °C Db
EAC gas explosion protection	Ex 1 Ex d e IIC T6/T5 Gb
	Ex 1 Ex d e [ib] IIC T6/T5 Gb

Technical Data	
Explosion Protection	
EAC dust explosion protection	Ex tb IIIC T60 °C...T75 °C Db
Certificates	ATEX (PTB), Brazil (ULB), EAC (LPE), IECEx (PTB), Korea (KGS), Taiwan (ITRI)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.
Ambient Conditions	
Ambient temperature	-30 °C ... +55 °C (IIC T5) (T75 °C) -30 °C ... +40 °C (IIC T6) (T60 °C)
Notes	T6: 63 A -45 °C ≤ T <sub>a</sub> ≤ +40 °C T6: 50 A -45 °C ≤ T <sub>a</sub> ≤ +50 °C T5: 63 A -45 °C ≤ T <sub>a</sub> ≤ +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
Degree of protection note	according to IEC/EN 60529
Enclosure material	Polyamide
Silicone-free	Yes
Connection terminals min.	2.5 mm <sup>2</sup>
Connection terminals finely-stranded max.	16 mm <sup>2</sup>
Components	
Cable diameter	24 ... 36 mm
Accessories found on page 446	
Dimensional Drawings on the Internet <a href="http://r-stahl.com">r-stahl.com</a>	

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





- 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 **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									
Product Description		Switch socket							
Rated operational current		110 – 125 A							
Auxiliary contacts available		110 A Yes							
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	4 P (3 P + PE)	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	206787	10	21.400
		7	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	206789	10	21.400
	5 P (3 P + N + PE)	6	346 – 415 V	Red	50 – 60 Hz	8581/31-506-S011	220121	10	21.400
		6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8581/31-506	206784	10	21.400
		7	277 – 288 V / 480 – 500 V	Black	50 – 60 Hz	8581/31-507	206786	10	21.400

Variants with a temperature range of -45 ... +55 °C are available on request.

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8581A

For information on compatible plugs, see page 444

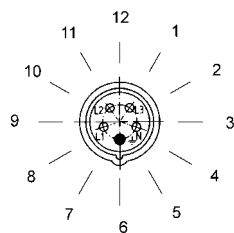
For information on cable glands and other accessories, see Chapter E10, page 648

Technical Data		
Variant	8581/31-...	8581/31-...-S011
Explosion Protection		
IECEX gas explosion protection	Ex db eb IIC T5/T6 Gb	Ex db eb IIC T5/T6 Gb
IECEX dust explosion protection	Ex tb IIIC T95 °C ... T80 °C Db	Ex tb IIIC T95 °C ... T80 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db eb IIC T5/T6 Gb	⊕ II 2 G Ex db eb IIC T5/T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T95 °C ... T80 °C Db	⊕ II 2 D Ex tb IIIC T95 °C ... T80 °C Db
EAC gas explosion protection	Ex 1 Ex d e IIC T6/T5 Gb Ex 1 Ex d e [ib] IIC T6/T5 Gb	Ex 1 Ex d e IIC T6/T5 Gb Ex 1 Ex d e [ib] IIC T6/T5 Gb
EAC dust explosion protection	Ex tb IIIC T65 °C...T85 °C Db	Ex tb IIIC T65 °C...T85 °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)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.	
Ambient Conditions		
Ambient temperature	-30 °C ... +55 °C (IIC T5) (T95 °C) -30 °C ... +40 °C (IIC T6) (T80 °C)	-30 °C ... +45 °C (IIC T5) (T95 °C) -30 °C ... +40 °C (IIC T6) (T80 °C)
Notes	T6: 125 A -30 °C ≤ T <sub>a</sub> ≤ +40 °C T6: 110 A -30 °C ≤ T <sub>a</sub> ≤ +45 °C T5: 125 A -30 °C ≤ T <sub>a</sub> ≤ +45 °C T5: 110 A -30 °C ≤ T <sub>a</sub> ≤ +55 °C Variants with a temperature range of -45 ... +55 °C are available on request.	
Mechanical Data		
Degree of protection (IP)	IP66	IP66
Degree 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 <sup>2</sup>	35 mm <sup>2</sup>
Connection terminals finely-stranded max.	2 x 150 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>
Connection terminals stranded max.	2 x 150 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>
Components		
Plate with threaded holes		With 2 x M63-M50 x 1,5
Cable glands	1 x M63 x 1,5	Can be ordered as accessories
Cable diameter	28 ... 48 mm	
Material cable gland	Polyamide, black	
Stopping plug	1 x M25 x 1,5	1 x M50 x 1,5
Stopping plug material	Polyamide, black	Polyamide, black
Notes	Plate with threaded holes: made of brass, for metal cable glands	
Accessories found on page 446		
Dimensional Drawings on the Internet r-stahl.com		

E3

## Arrangement of the Earth Contact Sleeves

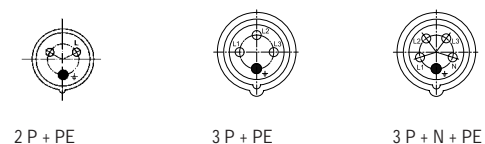
Example:  
Clock hour position,  
Front view of socket



Example:  
Clock hour position



Marking of connections  
Front view of socket





- Suitable for Zones 1, 2, 21 and 22 worldwide
- Degree of protection IP66
- 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**

Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	PS	Weight kg
	4 P (3 P + PE)	6	380 – 415 V	Red	50 – 60 Hz	8581/12-406	153514	10	1.280
		7	480 – 500 V	Black	50 – 60 Hz	8581/12-407	153521	10	1.280
	5 P (3 P + N + PE)	6	200 – 240 V / 346 – 415 V	Red	50 – 60 Hz	8581/12-506	153470 ▲	10	1.380
		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

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8581E

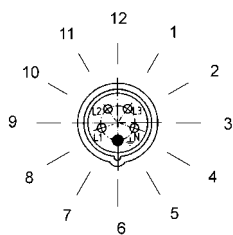
**Technical Data**

Explosion Protection	
IECEx gas explosion protection	Ex db eb IIC T5/T6 Gb
IECEx dust explosion protection	Ex tb IIIC T95 °C ... T80 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex db eb IIC T5/T6 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T95 °C ... T80 °C Db
Certificates	ATEX (PTB), Brazil (ULB), EAC (LPE), IECEx (PTB), Korea (KGS), Taiwan (ITRI)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.

Technical Data	
Ambient Conditions	
Ambient temperature	-30 °C ... +55 °C (IIC T5) (T95 °C) -30 °C ... +40 °C (IIC T6) (T80 °C)
Notes	T6: 125 A $-30\text{ °C} \leq T_a \leq +40\text{ °C}$ T6: 110 A $-30\text{ °C} \leq T_a \leq +45\text{ °C}$ T5: 125 A $-30\text{ °C} \leq T_a \leq +45\text{ °C}$ T5: 110 A $-30\text{ °C} \leq T_a \leq +55\text{ °C}$ Silicone is used as a sealing material for variants with an ambient temperature of $-45\text{ °C} \leq T_a \leq \dots\text{ °C}$ .
Mechanical Data	
Degree of protection (IP)	IP66
Degree of protection note	according to IEC/EN 60529
Enclosure material	Polyamide, Glass fibre reinforced
Silicone-free	Yes
Connection terminals min.	35 mm <sup>2</sup>
Components	
Cable diameter	30 ... 49 mm
Accessories found on page 446	
Dimensional Drawings on the Internet <a href="http://r-stahl.com">r-stahl.com</a>	

### 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

E3

## Accessories



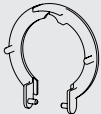

Figure	Description	Art. No.	PS	Weight kg
<b>Auxiliary contact (retrofitable) for Series 8570/11, 8571/11</b>				
	1 NC max. 500 V AC, max. 110 V DC max. 6 A 2 x 0.5 ... 2.5 mm <sup>2</sup> solid / finely stranded	150680	Z1	0.125
	1 NC, gold contact max. 500 V AC, max. 110 V DC max. 6 A 2 x 0.5 ... 2.5 mm <sup>2</sup> solid / finely stranded	150684	Z1	0.125
	1 NO max. 500 V AC, max. 110 V DC max. 6 A 2 x 0.5 ... 2.5 mm <sup>2</sup> solid / finely stranded	150682	Z1	0.125
	1 NO, gold contact max. 500 V AC, max. 110 V DC max. 6 A 2 x 0.5 ... 2.5 mm <sup>2</sup> solid / finely stranded	150686	Z1	0.125
<b>Auxiliary contact (retrofitable) for Series 8579, 8581</b>				
	2 NC contacts (8080/1-3) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm <sup>2</sup> solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: synchronising	168356	Z1	0.026
	1 NC contact + 1 NO contact (8080/1-1) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm <sup>2</sup> solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left: delayed (ON), leading (OFF) Right: synchronising	168351	Z1	0.026
	2 NO contacts (8080/1-4) 250 V AC/DC max. 6 A 1.5 ... 2.5 mm <sup>2</sup> solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: synchronising	168353	Z1	0.026
<b>Protective cap for plugs 16 A</b>				
	3 pole	150496	Z1	0.043
	4 pole	150510 ▲	Z1	0.049
	5 pole	150520	Z1	0.056
<b>Protective cap for plugs 32 A</b>				
	4 pole	150856 ▲	Z1	0.070
	5 pole	150865	Z1	0.077
<b>Protective cap for plugs 63 A</b>				
	4-/5-poles	153261 ▲	Z1	0.100
<b>Protective cap for plugs 125 A</b>				
	4-/5-poles	153730	Z1	0.120

E3

# Accessories for Plug and Socket Devices

Series 8570, 8571, 8572, 8573, 8579, 8581



Accessories				
Figure	Description	Art. No.	PS	Weight kg
Dust cover for wall mounting sockets, compact Series 8572/13				
	retrofitable dust protection for 3-pole sockets	257438	Z1	0.010
Dust cover for wall mounting sockets, compact, extra low voltage Series 8573/13				
	retrofitable dust protection for 2-/3-pole sockets	257439	Z1	0.010
Dust cover for wall mounting sockets 16 A Series 8570/11				
	retrofitable dust protection for 2-/3-pole sockets	253118	Z1	0.006
	retrofitable dust protection for 4-pole sockets	255003	Z1	0.008
	retrofitable dust protection for 5-pole sockets	255004	Z1	0.008
Dust cover for wall mounting sockets 32 A Series 8571/11				
	retrofitable dust protection for 4-pole sockets	255005	Z1	0.009
	retrofitable dust protection for 5-pole sockets	253117	Z1	0.009

E3





- 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 Clamping range	miniCLIX plug connector Coupling 4 ... 7.5 mm									
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Product Type	Art. No.	PS	Weight kg
	Nickel-plated brass	2 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> crimp	8591/131-06-3001	154025	53	0.145
		4 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/131-08-3001	169180	53	0.010
		4 P + PE	230 – 250 V	–	10	1.5 mm <sup>2</sup> crimp	8591/431-10-3001	153995	53	0.152
	Plastic	2 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> crimp	8591/131-06-0001	169177	53	0.083
		4 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/131-08-0001	169178	53	0.081
		4 P + PE	230 – 250 V	–	10	1.5 mm <sup>2</sup> crimp	8591/431-10-0001	153998	53	0.083
	Stainless steel	4 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/131-08-1001	169179	53	0.888
		4 P + PE	–	24 V	5	1.5 mm <sup>2</sup> crimp	8591/431-05-1001	169200	53	0.145

# Ex Plug Connector

Series 8591/1, 8591/4 4-poles, 4-poles + PE Bracket



Selection Table										
Product Description miniCLIX plug connector Device plug < 2 dm <sup>3</sup>										
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Product Type	Art. No.	PS	Weight kg
	Nickel-plated brass	2 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> conductor 30 cm	8591/191-06-3000	154050	53	0.162
		4 P	–	24 V	8	1.5 mm <sup>2</sup> conductor 30 cm	8591/191-08-3000	154054	53	0.170
		4 P + PE	230 – 250 V	–	10	1.5 mm <sup>2</sup> conductor 30 cm	8591/491-10-3000	154019	53	0.193
	Plastic	2 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> crimp	8591/191-06-0000	154048	53	0.162
		4 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/191-08-0000	154052	53	0.170
		4 P + PE	230 – 250 V	–	10	1.5 mm <sup>2</sup> crimp	8591/491-10-0000	154022	53	0.193
	Stainless steel	4 P	–	24 V	8	1.5 mm <sup>2</sup> conductor 30 cm	8591/191-08-1000	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	Product Type	Art. No.	PS	Weight kg
	Nickel-plated brass	2 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> conductor 30 cm	8591/181-06-3000	154042	53	0.148
		4 P	–	24 V	8	1.5 mm <sup>2</sup> conductor 30 cm	8591/181-08-3000	154046	53	0.156
		4 P + PE	230 – 250 V	–	10	1.5 mm <sup>2</sup> conductor 30 cm	8591/481-10-3000	154013	53	0.174
	Plastic	2 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> crimp	8591/181-06-0000	154040▲	53	0.064
		4 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/181-08-0000	154044	53	0.065
		4 P + PE	230 – 250 V	–	10	1.5 mm <sup>2</sup> crimp	8591/481-10-0000	154016	53	0.067
	Stainless steel	4 P	–	24 V	8	1.5 mm <sup>2</sup> conductor 30 cm	8591/181-08-1000	169193	53	0.100
Product Description miniCLIX plug connector Plug 4 ... 7.5 mm										
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Product Type	Art. No.	PS	Weight kg
	Nickel-plated brass	2 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> crimp	8591/171-06-3001	154034	53	0.168
		4 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/171-08-3001	169188	53	0.168
		4 P + PE	230 – 250 V	–	10	1.5 mm <sup>2</sup> crimp	8591/471-10-3001	154004▲	53	0.162
	Plastic	2 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> crimp	8591/171-06-0001	169185	53	0.200
		4 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/171-08-0001	169186	53	0.083
		4 P + PE	230 – 250 V	–	10	1.5 mm <sup>2</sup> crimp	8591/471-10-0001	154007▲	53	0.082
	Stainless steel	4 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/171-08-1001	169187	53	0.002

Further versions on the Internet r-stahl.com - WebCode 8591A

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

E3

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex db eb IIC T6 Gb
IECEx dust explosion protection	Ex tb IIIC T60 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex db eb IIC T6 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T60 °C Db
Certificates	ATEX (PTB), IECEx (BK1)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.
Electrical Data	
Switching capacity	IEC/EN 60947-4 AC-3: 250 V / 1 A DC-3: 60 V / 0.5 A  IEC/EN 61984 AC: 250 V / 10 A DC: 60 V / 2.5 A
Ambient Conditions	
Ambient temperature	-55 °C ... +40 °C
Note	-25 ... +40 °C plastic version -55 ... +40 °C plastic version, impact-protected, I <sub>n</sub> max. 10 A -55 ... +40 °C metal version, I <sub>n</sub> max. 10 A -55 ... +75 °C metal version, I <sub>n</sub> max. 2 A -55 ... +75 °C metal version, impact-protected, I <sub>n</sub> max. 2 A
Mechanical Data	
Degree of protection (IP)	IP66
Degree 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 on the Internet <a href="http://r-stahl.com">r-stahl.com</a>	



- 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 and 2

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		•	•			

Selection Table										
Product Description Clamping range	miniCLIX plug connector Coupling 7 ... 11 mm									
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Product Type	Art. No.	PS	Weight kg
	Nickel-plated brass	6 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> crimp	8591/231-06-3003	210731 ▲	53	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm <sup>2</sup> crimp	8591/231-10-3003	210733	53	0.100
		7 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/231-08-3003	210732	53	0.100
	Plastic	6 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> crimp	8591/231-06-0003	210726 ▲	53	0.127
		6 P + PE	380 – 415 V	–	10	1.5 mm <sup>2</sup> crimp	8591/231-10-0003	210728 ▲	53	0.100
		7 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/231-08-0003	210727 ▲	53	0.100
	Stainless steel	7 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/231-08-1003	210729	53	0.100

E3

## Selection Table

Product Description		miniCLIX plug connector Device plug < 2 dm <sup>3</sup>								
Cable entry		M25								
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Product Type	Art. No.	PS	Weight kg
	Nickel-plated brass	6 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> conductor 30 cm	8591/291-06-3000	210758	53	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm <sup>2</sup> conductor 30 cm	8591/291-10-3000	210759	53	0.100
		7 P	–	24 V	8	1.5 mm <sup>2</sup> conductor 30 cm	8591/291-08-3000	210760	53	0.100
	Plastic	6 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> crimp	8591/291-06-0000	210755	53	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm <sup>2</sup> crimp	8591/291-10-0000	210756	53	0.100
		7 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/291-08-0000	210757	53	0.100
Product Description		miniCLIX plug connector Flange socket								
Cable entry		M25								
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Product Type	Art. No.	PS	Weight kg
	Nickel-plated brass	6 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> conductor 30 cm	8591/281-06-3000	210749	53	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm <sup>2</sup> conductor 30 cm	8591/281-10-3000	210750	53	0.100
	Plastic	6 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> crimp	8591/281-06-0000	210746	53	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm <sup>2</sup> crimp	8591/281-10-0000	210747	53	0.100
		7 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/281-08-0000	210748	53	0.100
Product Description		miniCLIX plug connector Plug								
Clamping range		7 ... 11 mm								
Figure	Enclosure material	Detailed number of poles	Rated operational voltage AC	Rated operational voltage DC	Coding (clock hour position)	Connection type	Product Type	Art. No.	PS	Weight kg
	Nickel-plated brass	6 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> crimp	8591/271-06-3003	210741	53	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm <sup>2</sup> crimp	8591/271-10-3003	210743	53	0.100
		7 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/271-08-3003	210742	53	0.100
	Plastic	6 P + PE	230 – 250 V	–	6	1.5 mm <sup>2</sup> crimp	8591/271-06-0003	210736	53	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm <sup>2</sup> crimp	8591/271-10-0003	210738 ▲	53	0.100
		7 P	–	24 V	8	1.5 mm <sup>2</sup> crimp	8591/271-08-0003	210737	53	0.100

Further versions on the Internet [r-stahl.com](http://r-stahl.com) - WebCode 8591B

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

## Technical Data

### Explosion Protection

IECEx gas explosion protection Ex db eb IIC T6 Gb

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

Certificates ATEX (PTB), IECEx (BK1)

Notes Product label may vary. Series devices have certification according to ATEX and IECEx.

## Technical Data

### Electrical Data

Switching capacity	IEC/EN 60947 AC-1: 400 V / 16 A DC-1: 400 V / 1 A DC-3: 60 V / 0.5 A
--------------------	---

### Ambient Conditions

Ambient temperature	-55 °C ... +40 °C
Note	- 20 ... + 40 °C plastic version - 20 ... + 75 °C plastic version I <sub>n</sub> max. 1 A - 55 ... + 40 °C metal version - 55 ... + 75 °C metal version I <sub>n</sub> max. 1 A

### Mechanical Data

Degree of protection (IP)	IP66
Degree 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 on the Internet [r-stahl.com](http://r-stahl.com)