

CONTROL DEVICES



Product	Installation in Zone						Series	Page	WebCode
	0	1	2	20	21	22			
Control and Distribution Boxes									
Control and Distribution Boxes made of Stainless Steel		•	•		•	•	8150	489	8150B
Control Stations made of Polyester Resin		•	•		•	•	8146	483	8146F
Control Devices for Panel Mounting									
Control Buttons / Switches for Panel Mounting Plug-in Connection with Connection Line and Connection Chamber		•	•		•	•	8003	470	8003D
Control Buttons / Switches for Panel Mounting Spring Clamp Terminals with Connection Chamber		•	•		•	•	8003	467	8003A
LED Illuminated Pushbutton for Panel Mounting		•	•		•	•	8018	474	8018A
LED Indicating Lamps for Panel Mounting with Connection Chamber		•	•		•	•	8013	472	8013A
Control Equipment for Surface Mounting									
Control Device System		•	•		•	•	8040	479	8040B
Motion Sensor									
Motion Sensor		•	•		•	•	8265	494	8265E
Position Switch									
Metal Position Switch		•	•		•	•	8074	455	8074D
Position Switch		•	•		•	•	8060	459	8060B
Position Switch		•	•		•	•	8070	463	8070C
Accessories and Spare Parts									
Accessories and Spare Parts Series 8003, 8013, 8018								476	

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



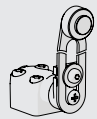

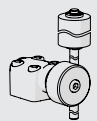
- Operating temperature range: -40 °C to +70 °C
- Large inner connection chamber
- High-quality metal Ex e enclosure with outer PE connection
- Degree of protection IP66/67
- Five different contact versions
- Ten different actuator versions

WebCode **8074D**



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

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

Selection Table							
Actuator		Adjustable rotary lever					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	No	8074/2-1-DS-40	257189 ▲	17	0.386
Actuator		Long rotary lever					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8074/2-1-DL-40	257188	17	0.422
Actuator		Misalignment switch					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	No	8074/2-1-SR-40	257201	17	0.486

E4

Selection Table

Actuator		Parallel roller lever					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8074/2-1-WPH-40	257186	17	0.307
Actuator		Plunger					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8074/2-1-W-40	257197	17	0.298
Actuator		Rod lever					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	No	8074/2-1-DD-40	257190	17	0.340
Actuator		Roller plunger					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8074/2-1-R-40	257184	17	0.299
Actuator		Rotary lever					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8074/2-1-D-40	257187	17	0.360
Actuator		Safety switch					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8074/2-1-AZ-20	257202	17	0.340

The actuators enclosed are not mounted.
Actuators without positive opening are not suitable for safety circuits!

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

Technical Data

Variant	8074/2-1-...	8074/2-1-AZ-20
Explosion Protection		
IECEx gas explosion protection	Ex de IIC T6/T5 Gb	Ex de IIC T6/T5 Gb
IECEx dust explosion protection	Ex tb IIIC T80 °C ... T95 °C Db	Ex tb IIIC T80 °C ... T95 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex de IIC T6/T5 Gb	Ⓔ II 2 G Ex de IIC T6/T5 Gb

Technical Data		
Variant	8074/2-1-...-	8074/2-1-AZ-20
Explosion Protection		
ATEX dust explosion protection	⊕ II 2 D Ex tb III C T80 °C ... T95 °C Db	⊕ II 2 D Ex tb III C T80 °C ... T95 °C Db
EAC gas explosion protection	⊕ 1 Ex db e IIC T6 Gb	⊕ 1 Ex db e IIC T6 Gb
EAC dust explosion protection	⊕ Ex tb III C T80 °C Db	⊕ Ex tb III C T80 °C Db
Certificates	ATEX (BVS), EAC (CCVE), IECEx (BVS)	ATEX (BVS), EAC (CCVE), IECEx (BVS)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.	
Electrical Data		
Rated operational voltage DC	125 V	230 V
Rated operational voltage AC (equal potential)	500 V	250 V
Rated operational voltage (unequal potential)	250 V	250 V
Rated operational current	4.4 A 6.6 A	0.25 A 6 A
Rated operational current note	4.4 A at T6 6.6 A at T5	0.25 A at 230 V DC 6 A at 250 V AC
Electrical service life	Max. 10 ⁶ operating cycles	Max. 10 ⁶ operating cycles
Mechanical service life	Max. 10 ⁶ operating cycles	Max. 10 ⁶ operating cycles
Rated surge voltage	4 kV	4 kV
Short-circuit protection max.	10 A	10 A
Maximum operating frequency	1800 operating cycles/h	1800 operating cycles/h
Ambient Conditions		
Ambient temperature	-40 °C ... +70 °C (T6) -40 °C ... +70 °C (T5)	-20 °C ... +40 °C (T6) -20 °C ... +60 °C (T5)
Mechanical Data		
Degree of protection IP (IEC 60529)	IP66	IP66
Type of protection (IEC 60529) note	-40 °C	-20 °C
Enclosure material	Corrosion resistant aluminium, powder-coated	Corrosion resistant aluminium, powder-coated
Cover material	1.4401 stainless steel, blaste	1.4401 stainless steel, blaste
Max. earth connection	4 mm ²	4 mm ²
Contact material	Silver-nickel	Silver-nickel
Connection cross-section finely stranded	0.75 – 2.5 mm ²	0.75 – 1.5 mm ²
Connection cross-section solid	0.75 – 2.5 mm ²	0.75 – 1.5 mm ²
Contact system	2-pole, galvanically separated with double break	2-pole, galvanically separated with double break
Contact opening	≥ 1.5 mm (isolating distance ≥ 3 mm)	≥ 1.5 mm (isolating distance ≥ 3 mm)
Components		
Cable glands	1 x M20 Ø 4 – 13 mm	1 x M20 Ø 4 – 13 mm
Material cable gland	Polyamide, Glass fibre reinforced	Polyamide, Glass fibre reinforced
Accessories and spare parts on the Internet r-stahl.com		
Dimensional Drawings on the Internet r-stahl.com		

E4

Switching Capacity

	Version 8074/2-2-..	Version 8074/2-2-AZ-20
AC-12	max. 250 V max. 500 V for equal potential max. 4 A max. 5000 VA	-
AC-15	max. 250 V max. 500 V for equal potential max. 4 A max. 1000 VA	max. 250 V max. 6 A
DC-12	max. 125 V max. 4 A max. 400 W	-
DC-13	-	max. 230 V max. 0.25 A



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

WebCode **8060B**



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

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

Selection Table							
Actuator		Adjustable rotary lever					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	No	8060/2-1-DS-60	254890	11	0.130
		Snap-action contact	No	8060/2-2-DS-60	254899	11	0.130
Actuator		Parallel roller lever					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8060/2-1-WPH-60	254885	11	0.102
		Snap-action contact	Yes	8060/2-2-WPH-60	254888	11	0.102
Actuator		Plunger					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8060/2-1-W-60	254793▲	11	0.096
		Snap-action contact	Yes	8060/2-2-W-60	254799	11	0.096

E4

Selection Table

Actuator		Rod lever					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	No	8060/2-1-DD-60	254891	11	0.133
		Snap-action contact	No	8060/2-2-DD-60	254900	11	0.133
Actuator		Roller lever					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8060/2-1-WH-60	254881 ▲	11	0.101
		Snap-action contact	Yes	8060/2-2-WH-60	254884 ▲	11	0.101
Actuator		Roller plunger					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8060/2-1-R-60	254794	11	0.100
		Snap-action contact	Yes	8060/2-2-R-60	254800 ▲	11	0.100
Actuator		Rotary lever					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8060/2-1-D-60	254889 ▲	11	0.115
		Snap-action contact	Yes	8060/2-2-D-60	254898 ▲	11	0.115
Actuator		Safety switch					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8060/2-1-AZ-60	254902	11	0.127
Actuator		Spring rod head					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Snap-action contact	No	8060/2-2-TK-60	254901	11	0.122

The actuators enclosed are not mounted.
Actuators without positive opening are not suitable for safety circuits!

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

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

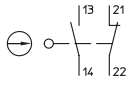
Technical Data	
Explosion Protection	
EAC gas explosion protection	Ex db e IIC T6 Gb
EAC dust explosion protection	Ex tb IIIC T80 °C Db
Certificates	ATEX (BVS), Canada / USA (CSA), EAC (CCVE), IECEx (BVS), India (PESO), Korea (KGS)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.
Electrical Data	
Rated operational voltage DC	250 V
Rated operational voltage AC (equal potential)	500 V
Rated operational voltage (unequal potential)	250 V
Rated insulation voltage	500 V
Rated operational current	2 A 4 A
Rated operational current note	at 2 A: -60 °C < Ta < +60 °C at 4 A: -60 °C < Ta < +55 °C
Electrical service life	Max. 10 ⁶ operating cycles
Mechanical service life	Max. 10 ⁶ operating cycles
Rated surge voltage	6 kV
Maximum operating frequency	1800 operating cycles/h
Ambient Conditions	
Ambient temperature	-60 °C ... +55 °C
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	Thermoplast GF, impact resistant
Cover material	Duroplast GF, impact resistant
Contact material	Silver-nickel
Connection cross-section finely stranded	0.75 – 1.5 mm ²
Connection cross-section solid	0.75 – 1.5 mm ²
Contact system	2-pole, galvanically separated with double break
Contact opening	≥ 1.5 mm (isolating distance ≥ 3 mm)
Seal	Silicone
Components	
Cable glands	1 x M20 Ø 7 – 13 mm
Material cable gland	Polyamide, Glass fibre reinforced
Accessories and spare parts on the Internet r-stahl.com	
Dimensional Drawings on the Internet r-stahl.com	

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Switching Capacity	
Version 8060/2-1-... and 8060/2-2-...	
AC-12	max. 250 V max. 500 V for equal potential max. 4 A max. 5000 VA
AC-15	max. 250 V max. 500 V for equal potential max. 4 A max. 1000 VA
DC-12	max. 125 V max. 4 A max. 400 W

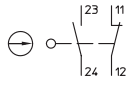
Contact Element Version

Slow-action contact



8060/2-1

Snap-action contact



8060/2-2

Note: the positive opening operation function depends on the actuator used



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

WebCode **8070C**



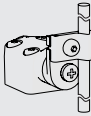



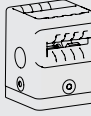
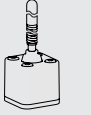
Plastic Position switch; switch dimensions meet the requirements of DIN EN 50041. It is designed to detect the position of moving components. Certified versions fulfil the requirements for safety switches as set out in EN 13849-1 and have positive-opening contacts in accordance with EN 60947-5-1.

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

Selection Table							
Actuator		Adjustable rotary lever					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	No	8070/2-1-DS-U60	258224 ▲	11	0.256
		Snap-action contact	No	8070/2-2-DS-U60	258232 ▲	11	0.256
Actuator		Parallel roller lever					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8070/2-1-WPH-U60	258222	11	0.170
		Snap-action contact	Yes	8070/2-2-WPH-U60	258230	11	0.170
Actuator		Plunger					
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8070/2-1-W-U60	258219 ▲	11	0.167
		Snap-action contact	Yes	8070/2-2-W-U60	258227 ▲	11	0.167

E4

Selection Table

Actuator							
Rod lever							
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	No	8070/2-1-DD-U60	258225	11	0.242
		Snap-action contact	No	8070/2-2-DD-U60	258233	11	0.242
Actuator							
Roller lever							
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8070/2-1-WH-U60	258221	11	0.168
		Snap-action contact	Yes	8070/2-2-WH-U60	258229 ▲	11	0.168
Actuator							
Roller plunger							
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8070/2-1-R-U60	258220	11	0.168
		Snap-action contact	Yes	8070/2-2-R-U60	258228	11	0.168
Actuator							
Rotary lever							
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8070/2-1-D-U60	258223 ▲	11	0.234
		Snap-action contact	Yes	8070/2-2-D-U60	258231 ▲	11	0.234
	2 NCs	Slow-action contact	Yes	8070/2-3-D-U60	258238 ▲	11	0.234
Actuator							
Safety switch							
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8070/2-1-AZ-U50	258226 ▲	11	0.194
Actuator							
Spring rod head							
Figure	Contacts	Switching function	Positive opening contact	Product Type	Art. No.	PS	Weight kg
	1 NC + 1 NO	Snap-action contact	No	8070/2-2-TK-U60	258234 ▲	11	0.204


The actuators enclosed are not mounted.
Actuators without positive opening are not suitable for safety circuits!

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

Technical Data

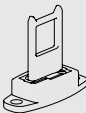

Variant	8070/2-1-... and 8070/2-2-... 1 NC + 1 NO	8070/2-3-... 2 NCs	8070/2-1-AZ-U50 1 NC + 1 NO
Explosion Protection			
IECEx gas explosion protection	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb
IECEx dust explosion protection	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db

Technical Data			
Variant	8070/2-1-... and 8070/2-2-... 1 NC + 1 NO	8070/2-3-... 2 NCs	8070/2-1-AZ-U50 1 NC + 1 NO
Explosion Protection			
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
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
EAC gas explosion protection	1 Ex db e IIC T6 Gb	1 Ex db e IIC T6 Gb	1 Ex db e IIC T6 Gb
EAC dust explosion protection	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
Certificates	ATEX (BVS), Canada / USA (CSA), EAC (CCVE), IECEx (BVS), India (PESO), Korea (KGS)	ATEX (BVS), Canada / USA (CSA), EAC (CCVE), IECEx (BVS), India (PESO), Korea (KGS)	ATEX (BVS), Canada / USA (CSA), EAC (CCVE), IECEx (BVS), India (PESO)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.		
Electrical Data			
Rated operational voltage DC	250 V	250 V	250 V
Rated operational voltage AC (equal potential)	500 V	400 V	500 V
Rated operational voltage (unequal potential)	250 V	250 V	250 V
Rated insulation voltage	500 V	500 V	500 V
Rated operational current	2 A 4 A	2 A 4 A	2 A 4 A
Rated operational current note	at 2 A: -60 °C < Ta < +60 °C at 4 A: -60 °C < Ta < +55 °C	at 2 A: -60 °C < Ta < +60 °C at 4 A: -60 °C < Ta < +55 °C	at 2 A: -60 °C < Ta < +60 °C at 4 A: -60 °C < Ta < +55 °C
Electrical service life	Max. 10 ⁶ operating cycles	Max. 10 ⁶ operating cycles	Max. 10 ⁶ operating cycles
Mechanical service life	Max. 10 ⁶ operating cycles	Max. 10 ⁶ operating cycles	Max. 10 ⁶ operating cycles
Rated surge voltage	6 kV	6 kV	6 kV
Maximum operating frequency	1800 operating cycles/h	1800 operating cycles/h	1800 operating cycles/h
Ambient Conditions			
Ambient temperature	-60 °C ... +55 °C (max. 4 A) -20 °C ... +60 °C (IP67 (EN 60529)) (max. 2 A)	-60 °C ... +55 °C (max. 4 A) -20 °C ... +60 °C (IP67 (EN 60529)) (max. 2 A)	-50 °C ... +55 °C (max. 4 A) -20 °C ... +60 °C (IP67 (EN 60529)) (max. 2 A)
Mechanical Data			
Degree of protection (IP)	IP66	IP66	IP66
Enclosure material	Thermoplast GF, impact resistant	Thermoplast GF, impact resistant	Thermoplast GF, impact resistant
Cover material	Duroplast GF, impact resistant	Duroplast GF, impact resistant	Duroplast GF, impact resistant
Contact material	Silver-nickel	Silver-nickel	Silver-nickel
Connection cross-section finely stranded	0.75 – 1.5 mm ²	0.75 – 1.5 mm ²	0.75 – 1.5 mm ²
Connection cross-section solid	0.75 – 1.5 mm ²	0.75 – 1.5 mm ²	0.75 – 1.5 mm ²
Contact system	2-pole, galvanically separated with double break	2-pole, galvanically separated with double break	2-pole, galvanically separated with double break
Contact opening	≥ 1.5 mm (isolating distance ≥ 3 mm)	≥ 1.5 mm (isolating distance ≥ 3 mm)	≥ 1.5 mm (isolating distance ≥ 3 mm)
Seal	Silicone	Silicone	Silicone
Components			
Cable glands	1 x M20 Ø 7 – 13 mm	1 x M20 Ø 7 – 13 mm	1 x M20 Ø 7 – 13 mm
Material cable gland	Polyamide, Glass fibre reinforced	Polyamide, Glass fibre reinforced	Polyamide, Glass fibre reinforced

Accessories				
Figure	Description	Art. No.	PS	Weight kg
Actuator				
	Bent actuator	258608	18	0.100

E4

Accessories

Figure	Description	Art. No.	PS	Weight kg
Actuator				
	Movable actuator	258609	18	0.100
	Straight actuator	258607	18	0.100

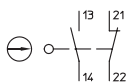
Dimensional Drawings on the Internet r-stahl.com

Switching Capacity

	Version 8070/2-1-... und 8070/2-2-...	Version 8070/2-3-...
AC-12	max. 250 V max. 500 V for equal potential max. 4 A max. 5000 VA	max. 250 V max. 400 V for equal potential max. 4 A max. 4000 VA
AC-15	max. 250 V max. 500 V for equal potential max. 4 A max. 1000 VA	max. 250 V max. 400 V for equal potential max. 4 A max. 1000 VA
DC-12	max. 125 V max. 4 A max. 400 W	max. 125 V max. 4 A max. 400 W

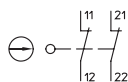
Contact Element Version

Slow-action contact



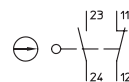
8060/2-1

Slow-action contact



8060/2-3

Snap-action contact



8060/2-2

Note: the positive opening operation function depends on the actuator used



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

WebCode **8003A**



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

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

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

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

Selection Table						
Actuator	Key-operated switch actuator With key-operated switch actuator					
Number of switching positions	2					
Certificates	ATEX (PTB), Canada / USA (UL), China (CQST), IECEx (PTB), India (PESO), Korea (KGS)					
Figure	Number of NCs	Number of NOs	Product Type	Art. No.	PS	Weight kg
	1	1	8003/111-008-2-r-MS1	127240 ▲	11	0.230
	-	2	8003/131-008-2-r-MS1	127244	11	0.220
Actuator	Mushroom pushbutton					
Certificates	ATEX (PTB), China (CQST), IECEx (PTB), India (PESO), Korea (KGS)					
Figure	Number of NCs	Number of NOs	Product Type	Art. No.	PS	Weight kg
	1	1	8003/111-003	269811	11	0.140
Actuator	Mushroom stay-put button EM-STOP					
Certificates	ATEX (PTB), Canada / USA (UL), China (CQST), IECEx (PTB), India (PESO), Korea (KGS)					
Figure	Number of NCs	Number of NOs	Product Type	Art. No.	PS	Weight kg
	2	-	8003/121-010S	217916 ▲	11	0.125

E4

Selection Table

Actuator Certificates						
Mushroom stay-put button EM-STOP ATEX (PTB), China (CQST), IECEx (PTB), India (PESO), Korea (KGS)						
Figure	Number of NCs	Number of NOs	Product Type	Art. No.	PS	Weight kg
	1	1	8003/111-010S	269835 ▲	11	0.125
Actuator Certificates						
Mushroom stay-put button EM-STOP, 55 mm ATEX (PTB), Canada / USA (UL), China (CQST), IECEx (PTB), India (PESO), Korea (KGS)						
Figure	Number of NCs	Number of NOs	Product Type	Art. No.	PS	Weight kg
	2	-	8003/121-015S	217919	11	0.145
Actuator Certificates						
Mushroom stay-put button EM-STOP, 55 mm ATEX (PTB), China (CQST), IECEx (PTB), India (PESO), Korea (KGS)						
Figure	Number of NCs	Number of NOs	Product Type	Art. No.	PS	Weight kg
	1	1	8003/111-015S	269838 ▲	11	0.145
Actuator Certificates						
Mushroom stay-put button With key-operated switch actuator EM-STOP ATEX (PTB), China (CQST), IECEx (PTB), India (PESO), Korea (KGS)						
Figure	Number of NCs	Number of NOs	Product Type	Art. No.	PS	Weight kg
	1	1	8003/111-009S-MS1	269834	11	0.140
Actuator Certificates						
Pushbutton ATEX (PTB), Canada / USA (UL), China (CQST), IECEx (PTB), India (PESO), Korea (KGS)						
Figure	Number of NCs	Number of NOs	Product Type	Art. No.	PS	Weight kg
	1	1	8003/111-001	126993 ▲	11	0.140
	-	2	8003/131-001	127125 ▲	11	0.140
Actuator Certificates						
Rotary actuator, small Not padlockable 2 ATEX (PTB), Canada / USA (UL), China (CQST), IECEx (PTB), India (PESO), Korea (KGS)						
Figure	Number of NCs	Number of NOs	Product Type	Art. No.	PS	Weight kg
	-	2	8003/131-726-2-r	213534 ▲	11	0.125

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

Technical Data

Variant	8003/1.1-...	8003/1.1-...S
Explosion Protection		
IECEx gas explosion protection	Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb

Control Buttons / Switches for Panel Mounting

Series 8003 Spring Clamp Terminals with Connection Chamber



Technical Data		
Variant	8003/1.1-...	8003/1.1-...S
Explosion Protection		
IECEX dust explosion protection	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
ATEX dust explosion protection	Ⓜ II 2 D Ex tb IIIC T80 °C Db	Ⓜ II 2 D Ex tb IIIC T80 °C Db
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.	
Electrical Data		
Rated operational voltage AC	500 V	500 V
Rated operational current	6 A	6 A
Ambient Conditions		
Ambient temperature	-20 °C ... +60 °C	-55 °C ... +60 °C
Mechanical Data		
Enclosure protection type (IP) front	IP66	IP66
Enclosure protection type (IP) rear	IP65	IP65
Contact material	Silver-nickel	Silver-nickel
Silicone-free	Yes	No
Conductor cross-section min.	0.75 mm ²	0.75 mm ²
Conductor cross-section max.	1.5 mm ²	1.5 mm ²
Components		
Cable glands	1 x M16 x 1.5	1 x M16 x 1.5
Entry type	Standard 8161, moulded material	Standard 8161, moulded material
Accessories and spare parts see page 476		
Dimensional Drawings on the Internet r-stahl.com		

E4



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

WebCode **8003D**



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

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

Selection Table



Actuator		Key-operated switch actuator With key-operated switch actuator				
Number of switching positions		2				
Figure	Number of NCs	Number of NOs	Product Type	Art. No.	PS	Weight kg
	1	1	8003/113-008-2-r-MS1-6	269849	11	0.125
Actuator		Key-operated switch actuator With key-operated switch actuator				
Number of switching positions		3				
Figure	Number of NCs	Number of NOs	Product Type	Art. No.	PS	Weight kg
	-	2	8003/133-008-3-rr-MS1-6	269827	11	0.125
Actuator		Mushroom stay-put button EM-STOP				
Figure	Number of NCs	Number of NOs	Product Type	Art. No.	PS	Weight kg
	1	1	8003/113-010S-6	269841	11	0.125
	2	-	8003/123-010S-6	269842	11	0.125
Actuator		Pushbutton				
Figure	Number of NCs	Number of NOs	Product Type	Art. No.	PS	Weight kg
	1	1	8003/113-001-6	269819	11	0.125
	-	2	8003/133-001-6	269826	11	0.125

E4

Control Buttons / Switches for Panel Mounting

Series 8003 Plug-in Connection with Connection Line and Connection Chamber

STAHL
Selection Table

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

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

Technical Data

Variant	8003/1.3-...	8003/1.3-...S
Explosion Protection		
IECEx gas explosion protection	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
ATEX gas explosion protection	Ⓔ 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
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.	
Electrical Data		
Rated operational voltage AC	500 V	500 V
Rated operational current	6 A	6 A
Ambient Conditions		
Ambient temperature	-20 °C ... +60 °C	-55 °C ... +60 °C
Mechanical Data		
Enclosure protection type (IP) front	IP66	IP66
Enclosure protection type (IP) rear	IP65	IP65
Contact material	Silver-nickel	Silver-nickel
Silicone-free	Yes	No
Conductor length	6 m	6 m
Type of connection cable	ÖLFLEX 4x1 mm ²	ÖLFLEX 4x1 mm ²
Components		
Screw connections	1 x M16 x 1.5	1 x M16 x 1.5
Entry type	Standard 8161, moulded material	Standard 8161, moulded material

Accessories and spare parts see page 476

 Dimensional Drawings on the Internet r-stahl.com
E4



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

WebCode **8013A**



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

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

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

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

Selection Table

Product variant Certificates		Ex d e ATEX (PTB), Canada / USA (UL), IECEx (PTB), India (PESO)				
Connection	Conductor cross-section	Conductor length	Product Type	Art. No.	PS	Weight kg
Spring terminal connection	0.75 – 1.5 mm ²	-	8013/311-al	129095 ▲	11	0.130
Product variant Certificates		Ex d e ATEX (PTB), IECEx (PTB), India (PESO)				
Connection	Conductor cross-section	Conductor length	Product Type	Art. No.	PS	Weight kg
Connection cable plug connection	0.75 mm ²	3 m	8013/313-al-3	269755	11	0.625
		6 m	8013/313-al-6	269752 ▲	11	0.625
Product variant Certificates		Ex i ATEX (PTB), Canada / USA (UL), IECEx (PTB), India (PESO)				
Connection	Conductor cross-section	Conductor length	Product Type	Art. No.	PS	Weight kg
Spring terminal connection	0.75 – 1.5 mm ²	-	8013/321-al	129110 ▲	11	0.140
Product variant Certificates		Ex i ATEX (PTB), IECEx (PTB), India (PESO)				
Connection	Conductor cross-section	Conductor length	Product Type	Art. No.	PS	Weight kg
Connection cable plug connection	0.75 mm ²	6 m	8013/323-al-6	269753	11	0.625

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

E4

Technical Data		
Variant	Ex d e	Ex i
Explosion Protection		
IECEX gas explosion protection	Ex db eb mb IIC T6 Gb	Ex db mb ia IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex db eb mb IIC T6 Gb	Ⓔ II 2 G Ex db mb ia 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
EAC gas explosion protection	Ⓔ 2 Ex d e m IIC T6 X Ⓔ 1 Ex ia IIC T6 X	Ⓔ 2 Ex d e m IIC T6 X Ⓔ 1 Ex ia IIC T6 X
EAC dust explosion protection	Ⓔ Ex tD A21 IP65 T80 °C	Ⓔ Ex tD A21 IP65 T80 °C
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.	
Electrical Data		
Rated operational voltage AC	12 – 254 V	10.8 – 28 V
Rated operational voltage DC	12 – 254 V	10.8 – 28 V
Ambient Conditions		
Ambient temperature	-30°C ... +60°C	-30°C ... +60°C
Lighting Data		
Luminous colour	Blue Green Red White Yellow	Blue Green Red White Yellow
Mechanical Data		
Degree of protection note	acc. IEC/EN 60529	acc. IEC/EN 60529
Enclosure protection type (IP) front	IP66	IP66
Enclosure protection type (IP) rear	IP65	IP65
Silicone-free	Yes	Yes
Cable entry	M16 x 1,5 (Ø2 ... 9 mm)	M16 x 1,5 (Ø2 ... 9 mm)
Components		
Entry type	Standard 8161, moulded material	Standard 8161, moulded material
Accessories and spare parts see page 476		
Dimensional Drawings on the Internet r-stahl.com		



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

WebCode **8018A**



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

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

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

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

Selection Table

LED illuminated pushbutton Ex e ATEX (PTB), Canada (UL), EAC (LPE), IECEx (PTB), USA (UL)						
Contact material	Number of NCs	Number of NOS	Product Type	Art. No.	PS	Weight kg
Silver-nickel	1	1	8018/3113-al-6	129769 ▲	11	0.740
	2	-	8018/3123-al-6	129777	11	0.740
	-	2	8018/3133-al-6	129784	11	0.740
LED illuminated pushbutton Ex i ATEX (PTB), Canada / USA (UL), EAC (LPE), IECEx (PTB)						
Contact material	Number of NCs	Number of NOS	Product Type	Art. No.	PS	Weight kg
Silver-nickel, gold-plated	1	1	8018/3213-al-6	210174	11	0.740
	2	-	8018/3223-al-6	210175 ▲	11	0.740
	-	2	8018/3233-al-6	210176	11	0.740





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

Technical Data







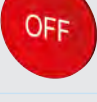




Variant	LED illuminated pushbutton Ex e	LED illuminated pushbutton Ex i
Explosion Protection		
IECEx gas explosion protection	Ex db mb IIC T6 Gb	Ex db mb ia IIC T6 Gb
IECEx dust explosion protection	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db mb IIC T6 Gb	⊕ II 2 G Ex db mb ia 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
EAC gas explosion protection	⊕ 1 Ex d mb IIC T6 Gb X ⊕ 1 Ex d mb ia IIC T6 Gb X	⊕ 1 Ex d mb IIC T6 Gb X ⊕ 1 Ex d mb ia IIC T6 Gb X

Technical Data		
Variant	LED illuminated pushbutton Ex e	LED illuminated pushbutton Ex i
Explosion Protection		
EAC dust explosion protection	Ex tb IIIC T80 °C Db X	Ex tb IIIC T80 °C Db X
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.	
Electrical Data		
Rated operational voltage indicating lamp part	12(-10%) ... 254(+6%) V AC/DC	U _i = 10.8 ... 28 V DC
Rated operational current indicating lamp part	0.014 A at 24 V DC	I _i = 150 mA
Frequency	0 ... 60 Hz	
Rated operational current	6 A	100 mA
Ambient Conditions		
Ambient temperature	-30 °C ... +60 °C	-30 °C ... +60 °C
Lighting Data		
Lamp	White LED	White LED
Luminous colour	White Blue Green Yellow Red	White Blue Green Yellow Red
Mechanical Data		
Enclosure protection type (IP) front	IP66	IP66
Enclosure protection type (IP) rear	IP65	IP65
Degree of protection note	acc. to IEC/EN 60529	acc. to IEC/EN 60529
Enclosure material	Polyamide	Polyamide
Silicone-free	Yes	Yes
Conductor length	6 m	6 m
Mounting / Installation		
Connection	H05 6 x 0.75 mm ² conductor	H05 6 x 0.75 mm ² conductor
Accessories and spare parts see page 476		
Dimensional Drawings on the Internet r-stahl.com		

E4



Accessories				
Figure	Description	Art. No.	PS	Weight kg
Actuator				
	for illuminated pushbutton (spring-return)	155163	11	0.019
Symbol label for pushbutton and selector switch				
	Colour: blue Blank label without text	155911 ▲	Z1	0.001
	Colour: yellow Blank label without text	155914 ▲	Z1	0.001
	Colour: red Blank label without text	155897 ▲	Z1	0.001
	Colour: green Blank label without text	155901 ▲	Z1	0.001
	Colour: white Blank label without text	155908 ▲	Z1	0.001
	Colour: black Blank label without text	155905 ▲	Z1	0.001
	Colour: black Text: I	155846	Z1	0.001
	Colour: green Text: I	155689 ▲	Z1	0.001
	Colour: white Text: I	155892	Z1	0.001
	Colour: black Text: II	155854	Z1	0.001
	Colour: green Text: II	155706	Z1	0.001

E4




Accessories				
Figure	Description	Art. No.	PS	Weight kg
Symbol label for pushbutton and selector switch				
	Colour: red Text: O	155596 ▲	Z1	0.001
	Colour: black Text: O	155783	Z1	0.001
	Colour: black Text: I O	155771 ▲	Z1	0.001
	Colour: red Symbol: Arrow	155567 ▲	Z1	0.001
	Colour: black Symbol: Arrow	155761	Z1	0.001
	Colour: black Text: EIN	155862	Z1	0.001
	Colour: red Text: OFF	155654	Z1	0.001
	Colour: red Text: Aus	155634	Z1	0.001
	Colour: black Text: Aus	155806	Z1	0.001
	Colour: red Text: STOP	155615 ▲	Z1	0.001
	Colour: black Text: STOP	155795	Z1	0.001
	Colour: blue Text: RESET	155894	Z1	0.001

E4

Accessories

Figure	Description	Art. No.	PS	Weight kg
Symbol label for pushbutton and selector switch				
	Colour: green Text: ON	155671	Z1	0.001
Label mount				
	Label mount, size 1, without symbol label Text: 1 line for actuators to fit Ø 30.5 mm holes	155632	Z1	0.001
	Label mount, size 2, without symbol label Text: 1 or 2 lines for actuators to fit Ø 30.5 mm holes	155687	Z1	0.002
	Label mount, size 3, without symbol label Text: 1, 2 or 3 lines for actuators to fit Ø 30.5 mm holes	155844	Z1	0.002

Spare Parts

Figure	Description	Art. No.	PS	Weight kg
Closure part				
	for closing of unused mounting holes Ø 30.5 mm	155329	E1	0.016
Spare key				
	standard locking MS1 locking MS2-MS4 + MS17 also possible	107109 ▲	Z1	0.008
Colour filter				
	for illuminated pushbuttons white	155877	E1	0.001
	for illuminated pushbuttons red	155882	E1	0.001
	for illuminated pushbuttons yellow	155885	E1	0.001
	for illuminated pushbuttons green	155888	E1	0.001
	for illuminated pushbuttons blue	155891	E1	0.001

Designation plates, label holders and colour filters: Price given per 100 units.

E4



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

WebCode **8040B**



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

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




Selection Table										
Product variant 2 pushbuttons										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	Pushbutton Green - "I"	Contact element NC / NO	-	-	Pushbutton Red - "0"	Contact element NC / NO	8040/1280X-01L13SA05-01L08SA05	130692 ▲	11	0.460
Product variant Key-operated switch										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Key-operated switch Latching/latching	Contact element NC / NO	-	-	8040/1180X-08M01SA05	130902 ▲	11	0.450
Product variant LED illuminated pushbutton										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	LED illuminated pushbutton All colours	Contact element NO / LED / NC	-	-	8040/1180X-35C06SA45	130828 ▲	11	0.400

E4

Selection Table

LED indicating lamp										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Indicator lamp bezel All colours	LED indicator lamp	-	-	8040/1180X-54C06SXXX	130890 ▲	11	0.350
LED indicating lamp and 2 pushbuttons										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	Indicator lamp bezel All colours	LED indicator lamp	Pushbutton Green - "I"	Contact element NC / NO	Pushbutton Red - "0"	Contact element NC / NO	8040/1380X-54C06SA70-01L13SA05-01L08SA05	130900 ▲	11	0.640
LED indicating lamp and twin pushbutton										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	Indicator lamp bezel All colours	LED indicator lamp	-	-	Twin pushbutton Red "0", green "I"	Contact element NC / NO	8040/1280X-54C06SXXX-23D01SA05	130898 ▲	11	0.540
Mushroom pushbutton										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Mushroom pushbutton Black - "I"	Contact element NC / NO	-	-	8040/1180X-03L24SA05	130813 ▲	11	0.400
Mushroom stay-put button										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	EM-STOP mushroom stay-put but. Red - (rotating arrow)	Contact element NC / NO	-	-	8040/1180X-10L07SA05	130679 ▲	11	0.400
	-	-	EM-STOP mushroom stay-put but. Red - (rotating arrow)	Contact element NC / NO / NC	-	-	8040/1180X-10L07SA08	130819 ▲	11	0.410
	-	-	EM-STOP mush. stay-put but. 55 Red - (rotating arrow)	Contact element NC / NO	-	-	8040/1180X-15L07SA05	130816 ▲	11	0.400
Mushroom stay-put button with key lock										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	EM-STOP mushroom stay-put button with key lock	Contact element NC / NO	-	-	8040/1180X-09XXXSA05	130665 ▲	11	0.450

E4

Selection Table										
Product variant										
Pushbutton										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Pushbutton Red "0", green "I"	Contact element NC / NO	-	-	8040/1180X-01L50SA05	130686 ▲	11	0.370
Product variant										
Selector switch with contact element 8082										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Small handle Latching/ latching	Contact element NC / NO	-	-	8040/1180X-26M01SA05	130834 ▲	11	0.420
Product variant										
Twin pushbutton										
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	PS	Weight kg
	-	-	Twin pushbutton Red "0", green "I"	Contact element NC / NO	-	-	8040/1180X-23D01SA05	130825	11	0.400

Technical Data	
Explosion Protection	
IECEX gas explosion protection	Ex db eb IIC T6/T5 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C ... T95 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db eb IIC T6/T5 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C ... T95 °C Db
EAC gas explosion protection	⊕ 1 Ex d e IIC T6 Gb X
EAC dust explosion protection	⊕ Ex tb IIIC T80 °C Db X
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.
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)	IP66
Degree of protection note	acc. to IEC/EN 60529
Enclosure material	Polyester resin, Glass fibre reinforced
Cover fixing type	With captive screws, M4 stainless steel screws
Seal	Silicone, foamed
Components	
Flange and plates	Without flange, without plates
Cable glands	1 x M25 Ø 7 to 17 mm
Entry type	Standard 8161, moulded material
Dimensional Drawings on the Internet r-stahl.com	

Technical Data – Components for Control Devices Series 8040

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



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

WebCode 8146F



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

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

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

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

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



8082 Control unit with actuators Ø 38 mm



8010 Indicating lamp



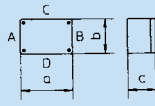
8082/8010 Illuminated lamp

E4

Equipment Configuration

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

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

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

E4

Table of max. number of entries possible with cable glands 8161 see terminal boxes Series 8146, page 392

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



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



8008 Control switch



8405 Ammeter

Equipment Configuration

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

Enclosure	Diagram				Product Type	Weight (empty enclosure) [kg]
	<p>a = width; b = height; c = depth</p>					
Enclosure size 3 a = 112.500 mm b = 112.500 mm c = 91.000 mm	Figure 3.2 	Figure 3.3 	Figure 3.4 		8146/5031-3.	0.64
Side facing down	D	D	D			
Enclosure size 4 a = 170.000 mm b = 112.500 mm c = 91.000 mm	Figure 4.4 	Figure 4.5 	Figure 4.6 	Figure 4.7 	8146/5041-3.	0.70
Side facing down	A	A	D	D		
Enclosure size 24 a = 227.000 mm b = 112.500 mm c = 91.000 mm	Figure 24.4 	Figure 24.5 			8146/5241-3.	0.93
Side facing down	A	A				
Enclosure size 5 a = 170.000 mm b = 170.000 mm c = 91.000 mm	Figure 5.5 	Figure 5.6 			8146/5051-3.	1.10
Side facing down	D	D				
Enclosure size 6 a = 227.000 mm b = 170.000 mm c = 91.000 mm	Figure 6.5 	Figure 6.6 			8146/5061-3.	1.40
Side facing down	A	A				

Enclosure	Product Type	Weight (empty enclosure) [kg]
<p>Enclosure size 7</p> <p>a = 340.500 mm b = 170.000 mm c = 91.000 mm</p>	<p>Figure 7.5</p> <p>a = width; b = height; c = depth</p>	<p>8146/5071-3.</p> <p>2.00</p>
<p>Side facing down</p> <p>Enclosure size 7</p> <p>a = 340.500 mm b = 170.000 mm c = 91.000 mm</p>	<p>Figure 7.6</p>	<p>8146/5071-3.</p> <p>2.00</p>
<p>Side facing down</p> <p>Enclosure size 8</p> <p>a = 340.500 mm b = 340.500 mm c = 91.000 mm</p>	<p>Figure 8.3</p>	<p>8146/5081-3.</p> <p>3.40</p>
<p>Side facing down</p> <p>Enclosure size 9</p> <p>a = 681.500 mm b = 340.500 mm c = 91.000 mm</p>	<p>Figure 8.4</p>	<p>8146/5091-3.</p> <p>7.30</p>
<p>Side facing down</p> <p>Enclosure size 9</p> <p>a = 681.500 mm b = 340.500 mm c = 91.000 mm</p>	<p>Figure 9.4</p>	<p>8146/5091-3.</p> <p>7.30</p>
<p>Side facing down</p> <p>Order number supplement</p>	<p>Specify side facing down:</p>	<p>8146/50.1-.A 8146/50.1-.D</p>

E4

Technical Data	
Explosion Protection	
IECEX gas explosion protection	Ex db eb ia [ia Ga] ib [ib] mb q IIA, IIB, IIC T6, T4, T3 Gb
IECEX dust explosion protection	Ex tb IIIA, IIIB, IIIC T80 °C, T95 °C, T130 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db eb ia [ia Ga] ib [ib] mb q IIA, IIB, IIC T6, T4, T3 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIA, IIIB, IIIC T80 °C, T95 °C, T130 °C Db
EAC gas explosion protection	ⓘ 1 Ex e . IIC...IIA T6...T3 Gb X
EAC dust explosion protection	ⓘ Ex tb IIIC T80 °C...T130 °C Db X
Certifications	ATEX, Brazil (INMETRO), China (China-Ex), EAC (TR), IECEX, India (PESO), Canada (CSA / cFM), Korea (KCs), Taiwan (ITRI), Ukraine (TR), USA (FM / UL)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.
Electrical Data	
Rated operational voltage	max. 1100 V AC / DC
Frequency range	50 – 60 Hz
Rated operational current	630 A
Ambient Conditions	
Ambient temperature	-60 °C ... +100 °C
Ambient temperature note	Depending on explosion protected components used
Mechanical Data	
Degree of protection (IP)	IP66
Degree of protection note	according to IEC/EN 60529
Enclosure material	Polyester resin, glass-fibre-reinforced, dark-grey, similar to RAL 7024 impact resistance ≥ 7 J surface resistance ≤ 10 ⁹ Ω flame retardant acc. IEC/EN 60695, UL 94, ASTM D635
Sealing material	Standard: foamed silicone Special: PU, foamed (-20 ... +80 °C)
Silicone-free	No
Table of max. number of entries possible with cable glands 8161 see terminal boxes Series 8146, page 392	



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

WebCode **8150B**



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

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

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

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

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



8082 Control unit with actuators Ø 38 mm



8010 Indicating lamp



8082/8010 Illuminated lamp

E4

Equipment Configuration

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

		Product Type	
a = width; b = height; c = depth			
Dimensions a = 176.500 mm b = 116.000 mm c = 91.000 mm	Fig. 4.1 	8150/5-0176-0116-091-3.1	
a = 176.500 mm b = 176.500 mm c = 91.000 mm	Fig. 5.1 	8150/5-0176-0176-091-3.1	
	Fig. 5.2 		
	Fig. 5.3 		
	Fig. 5.4 		
a = 236.500 mm b = 176.500 mm c = 91.000 mm	Fig. 6.1 	8150/5-0236-0176-091-3.1	
	Fig. 6.2 		
	Fig. 6.3 		
	Fig. 6.4 		
a = 360.000 mm b = 176.500 mm c = 91.000 mm	Fig. 7.1 	8150/5-0360-0176-091-3.1	
	Fig. 7.2 		
a = 360.000 mm b = 360.000 mm c = 91.000 mm	Fig. 8.1 	8150/5-0360-0360-091-3.1	
	Fig. 8.2 		
a = 727.000 mm b = 360.000 mm c = 150.000 mm	Fig. 9.1 	8150/5-0727-0360-150-3.1	
a = 727.000 mm b = 360.000 mm c = 150.000 mm	Fig. 9.2 	8150/5-0727-0360-150-3.1 8150/5-0360-0727-150-3.1	
	Fig. 9.3 		
Order number supplement	Enclosure material Cam locks + Hinge	Stainless steel 1.4301 (AISI 304), brush finished Stainless steel 1.4404 (AISI 316L), brush finished without with	8150/5-0...-0...-...-23.1 8150/5-0...-0...-...-33.1 8150/5-0...-0...-...-311 8150/5-0...-0...-...-321

E4

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



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



8008 Control switch



8405 Ammeter

Equipment Configuration

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

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

E4

		Product Type
<p>a = width; b = height; c = depth</p>		
<p>a = 400.000 mm b = 300.000 mm c = 150.000 mm</p>	<p>Fig. 11.1 </p> <p>Fig. 11.2 </p>	8150/5-0400-0300-150-3.1
<p>a = 400.000 mm b = 400.000 mm c = 150.000 mm</p>	<p>Fig. 12.1 </p> <p>Fig. 11.2 </p>	8150/5-0400-0400-150-3.1
<p>a = 600.000 mm b = 400.000 mm c = 150.000 mm</p>	<p>Fig. 13.1 </p> <p>Fig. 13.2 </p>	8150/5-0600-0400-150-3.1
<p>a = 400.000 mm b = 600.000 mm c = 150.000 mm</p>	<p>Fig. 13.3 </p> <p>Fig. 13.4 </p>	8150/5-0600-0400-150-3.1 8150/5-0460-0600-150-3.1
<p>a = 727.000 mm b = 360.000 mm c = 150.000 mm</p>	<p>Fig. 9.4 </p>	8150/5-0727-0360-150-3.1
<p>a = 727.000 mm b = 360.000 mm c = 150.000 mm</p>	<p>Fig. 9.5 </p>	8150/5-0727-0360-150-3.1
<p>a = 600.000 mm b = 600.000 mm c = 150.000 mm</p>	<p>Fig. 14.1 </p> <p>Fig. 14.2 </p>	8150/5-0727-0360-150-3.1
<p>Order number supplement</p>	<p>Enclosure material</p> <p>Stainless steel 1.4301 (AISI 304), brush finished Stainless steel 1.4404 (AISI 316L), brush finished</p> <p>Cam locks + Hinge</p> <p>without with</p>	<p>8150/5-0...0...-23.1 8150/5-0...0...-33.1</p> <p>8150/5-0...0...-311 8150/5-0...0...-321</p>

E4

Technical Data	
Explosion Protection	
IECEX gas explosion protection	Ex db eb ia [ia Ga] ib [ib] ma mb op pr op is qb IIA, IIB, IIC T6, T4, T3 Gb
IECEX dust explosion protection	Ex tb IIIC IP6X T130 °C, T95 °C, T80 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db eb ia [ia Ga] ib [ib] ma mb op pr op is qb IIA, IIB, IIC T6, T4, T3 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC IP6X T130 °C, T95 °C, T80 °C Db
EAC gas explosion protection	ⓘ 1 Ex e . IIC...IIA T6...T3 Gb X
EAC dust explosion protection	ⓘ Ex tb IIIC T80 °C...T130 °C Db X
Certifications	ATEX, Brazil (INMETRO), China (China-Ex), EAC (TR), IECEX, India (PESO), Canada (CSA / cFM), Korea (KCs), Ukraine (TR), USA (FM / UL)
Ship certificates	GL, RS
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.
Electrical Data	
Rated operational voltage	max. 1100 V AC / DC
Frequency range	50 – 60 Hz
Rated operational current	630 A
Ambient Conditions	
Ambient temperature	-60 °C ... +85 °C
Ambient temperature note	depending on explosion protected components used
Mechanical Data	
Degree of protection (IP)	IP66
Degree of protection note	according to IEC/EN 60529
Enclosure material	8150/5-...-2... stainless steel 1.4301 (AISI 304), brush finished 8150/5-...-3... stainless steel 1.4404 (AISI 316L), brush finished
Sealing material	Silicone, foamed
Silicone-free	No
Terminals	Rated cross section which can be used: max. 300 mm ² . The maximum number of terminals for the respective enclosure size is indicated in the EC Type Examination Certificate.
Cover fixing type	Standard: with captive M6 stainless steel cheese-head screws with combined slot, option: with cover hinges
Notes	Hinge + cam lock without 8150/...-1. with 8150/...-2.
Mounting / Installation	
Connection	Depending on order requirements at the built-in components or at the terminal blocks. The rated operational voltage, the rated operational current and the rated cross section depend on the terminal type used and the explosion protected components.
Tightening torque	according to specifications of the terminal block manufacturer
Components	
Flange and plates	Standard: in the standard version, the enclosures are supplied without flanges. Depending on order requirements the enclosures can be installed on one or more sides with flanges. Flange material: stainless steel

Table of max. number of entries possible with cable glands 8161 see terminal boxes Series 8150, page 397



- High frequency motion sensor
- Intelligent sensor technology
- Adjustable switching time
- Operating point adjustable for dawn/dusk

WebCode 8265E

The motion sensor is equipped with intelligent sensor technology that provides additional security. With a range of 1–8 m, a switching load of 1000 W and an operating point of 2–2000 Lux, the motion detector is perfectly suited for controlling lights and lighting systems.

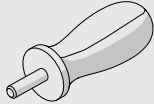


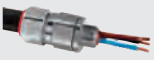
	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

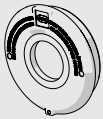
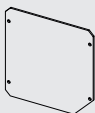

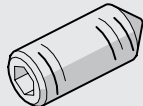
Selection Table

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

Technical Data

Explosion Protection	
IECEX gas explosion protection	Ex db IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db IIC T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), China (CQST), IECEx (PTB), India (PESO)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.
Electrical Data	
Rated operational voltage min. AC	230 V
Rated operational voltage max. AC	240 V
Ambient Conditions	
Ambient temperature	-20 °C ... +50 °C
Mechanical Data	
Degree of protection (IP)	IP66
Degree of protection note	With silicone seal
Enclosure material	Aluminium, copper-free, Seawater-resistant
Material note	For long-term use in marine environments, we recommend painting the unit
Components	
Stopping plug	2 x CMP-757D MsNi M20
Stopping plug note	With white seal PA M20

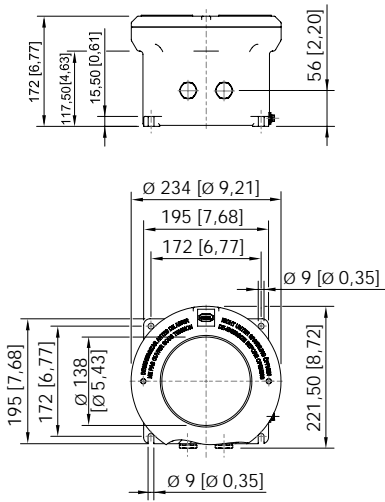
Accessories				
Figure	Description	Art. No.	PS	Weight kg
Box spanner				
	to open the enclosure cover for size 1, 2, 3, 4 2 socket keys are required	142059	Z1	0.060
Lubricating grease for thread gap				
	Grease for low temperatures	105077	Z1	1.070
Cable glands made of metal				
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	10	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	10	0.240

Spare Parts				
Figure	Description	Art. No.	PS	Weight kg
Cover with inspection window				
	for enclosure size 3 visible part of window Ø 141 mm	143452	E1	2.232
Mounting plate				
	for enclosure size 3	143485	E1	0.364
O-ring				
	silicone, for enclosure size 3	221718	E1	0.010
Threaded pin				
	M5x16-A2 with allen screw and point	110216	E1	0.001

If the cable is selected in accordance with IEC/EN 60079-14, other cable glands can be used.
Additional variants, such as heaters, paint, connection chambers or cable entries, are available on request.

E4

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



Enclosure size 3 with inspection window



E4