

# Control switch/load disconnect switch

Series 8008



- > Versions
  - Control switch with 2, 3 or 4 pole
  - Load switch 3 pole + 1 auxiliary contact
- > Rated operational voltage up to 690 V AC
- > Positive opening contacts
- > Contacts suitable for EM-STOP
- > Isolating characteristics according to IEC/EN 60947-3
- > Latching or spring-return versions available

www.stahl.de



18172E00



E4

The control switches series 8008 can be used for EMERGENCY STOP functions according to IEC/EN 60204, DIN VDE 0113. The switching function can be selected, it is available in latching or spring-return version. The load switches meet all requirements for use as motor or main switch.

	ATEX / IECEx						Zone	Class I (NEC 505) (NEC 506)						Division	Class I		Class II		Class III	
	0	1	2	20	21	22		0	1	2	20	21	22		1	2	1	2	1	2
For use		x	x				For use in		x	x				For use in	x		x	x	x	

### Explosion Protection

#### Global (IECEx)

Gas and mining | IECEx PTB 06.0010U  
Ex db eb IIC Gb  
Ex db eb I Mb

#### Europe (ATEX)

Gas and mining | PTB 00 ATEX 1111 U  
⊕ II 2 G Ex db eb IIC Gb  
⊕ I M2 Ex db eb I Mb

#### Certifications and certificates


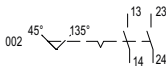
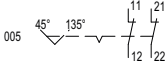
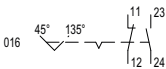
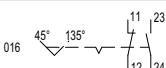
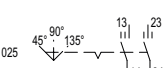
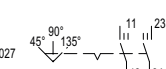

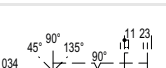
Certificates | IECEx, ATEX, USA (UL), Canada (UL)

**WebCode 8008A**

# Control switch/load disconnect switch

## Series 8008

Selection Table

Version	Switching arrangements Assembly Additional information	Order number	Weight  kg																												
8008/2 Control switch, 2 pole   01832E00	<table border="1" style="margin-bottom: 10px;"> <tr><td></td><td></td><td>13</td><td>23</td></tr> <tr><td>45°</td><td></td><td></td><td></td></tr> <tr><td>135°</td><td>X</td><td>X</td><td></td></tr> <tr><td></td><td></td><td>14</td><td>24</td></tr> </table> 002   08765E00			13	23	45°				135°	X	X				14	24	8008 / 2 - 002	0.128												
		13	23																												
45°																															
135°	X	X																													
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45°	X	X																													
135°																															
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45°																															
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45°	X																														
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45°																															
90°	X																														
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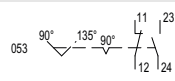
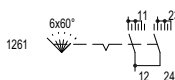
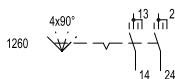

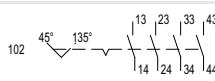
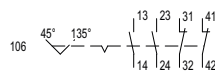
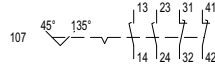
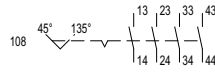
Version	Switching arrangements Assembly Additional information	Order number	Weight  kg																					
	<table border="1"> <tr><td>0°/360°</td><td>X</td><td></td></tr> <tr><td>60°</td><td></td><td>X</td></tr> <tr><td>120°</td><td>X</td><td></td></tr> <tr><td>180°</td><td></td><td>X</td></tr> <tr><td>240°</td><td>X</td><td></td></tr> <tr><td>300°</td><td></td><td>X</td></tr> <tr><td>360°/0°</td><td>X</td><td></td></tr> </table> <p>11 23 12 24</p> <p>035</p> <p>08760E00</p>	0°/360°	X		60°		X	120°	X		180°		X	240°	X		300°		X	360°/0°	X		<b>8008 / 2-035</b>	0.128
0°/360°	X																							
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45°																								
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45°	X																							
90°																								
135°		X																						
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45°	X	X																						
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45°	X																							
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E4

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	11	23																												
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	13	23																												
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90°	X	X																												
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360°/0°																														
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8008/2 Control switch, 4 pole  01833E00	<table border="1"> <tr><td></td><td>13</td><td>23</td><td>33</td><td>43</td></tr> <tr><td>45°</td><td></td><td></td><td></td><td></td></tr> <tr><td>135°</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>14</td><td>24</td><td>34</td><td>44</td></tr> </table> 102  08860E00		13	23	33	43	45°					135°	X	X	X	X		14	24	34	44	<b>8008 / 2 - 102</b>	0.186							
	13	23	33	43																										
45°																														
135°	X	X	X	X																										
	14	24	34	44																										
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	13	23	31	41																										
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135°	X	X																												
	14	24	32	42																										
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	13	23	31	41																										
45°	X	X	X	X																										
135°	X	X	X	X																										
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	13	23	33	43																										
45°																														
135°	X	X	X	X																										
	14	24	34	44																										

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		11	23	33	43																																		
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		13	21	33	43																																		
45°		X																																					
90°	X																																						
135°			X	X																																			
		14	22	34	44																																		
119	<table border="1"> <tr><td></td><td></td><td>11</td><td>23</td><td>31</td><td>43</td></tr> <tr><td>45°</td><td>X</td><td></td><td>X</td><td></td><td></td></tr> <tr><td>90°</td><td></td><td></td><td></td><td>X</td><td></td></tr> <tr><td>135°</td><td></td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td></td><td></td><td>12</td><td>24</td><td>32</td><td>44</td></tr> </table> <p>08768E00</p>			11	23	31	43	45°	X		X			90°				X		135°		X		X				12	24	32	44	8008/2-119	0.186						
		11	23	31	43																																		
45°	X		X																																				
90°				X																																			
135°		X		X																																			
		12	24	32	44																																		
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		13	21	31	43																																		
0°		X		X																																			
45°			X																																				
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		13	23	33	43																																		
45°	X		X																																				
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135°		X		X																																			
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		11	23	33	41																																		
0°	X	X	X	X																																			
45°	X			X																																			
90°					X																																		
135°			X																																				
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		11	23	33	43																																		
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		13	21	33																																			
45°	X																																						
90°		X																																					
135°			X																																				
		14	22	34																																			

E4

# Control switch/load disconnect switch

## Series 8008

**Selection Table**

Version	Switching arrangements Assembly Additional information	Order number	Weight  kg																																			
148	<table border="1"> <tr><td></td><td>13</td><td>23</td><td>31</td><td>41</td></tr> <tr><td>0°</td><td></td><td></td><td>X</td><td>X</td></tr> <tr><td>45°</td><td></td><td></td><td></td><td></td></tr> <tr><td>90°</td><td></td><td>X</td><td></td><td></td></tr> <tr><td>135°</td><td>X</td><td>X</td><td></td><td></td></tr> <tr><td></td><td>14</td><td>24</td><td>32</td><td>42</td></tr> </table> <p>10926E00</p>		13	23	31	41	0°			X	X	45°					90°		X			135°	X	X				14	24	32	42	<b>8008/2-148</b>	0.186					
	13	23	31	41																																		
0°			X	X																																		
45°																																						
90°		X																																				
135°	X	X																																				
	14	24	32	42																																		
162	<table border="1"> <tr><td></td><td>13</td><td>21</td><td>33</td><td>41</td></tr> <tr><td>45°</td><td>X</td><td>X</td><td></td><td></td></tr> <tr><td>90°</td><td></td><td>X</td><td></td><td>X</td></tr> <tr><td>135°</td><td></td><td></td><td>X</td><td>X</td></tr> <tr><td></td><td>14</td><td>22</td><td>34</td><td>42</td></tr> </table> <p>07370E00</p>		13	21	33	41	45°	X	X			90°		X		X	135°			X	X		14	22	34	42	<b>8008/2-162</b>	0.186										
	13	21	33	41																																		
45°	X	X																																				
90°		X		X																																		
135°			X	X																																		
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163	<table border="1"> <tr><td></td><td>6</td><td>4</td><td>2*</td></tr> <tr><td>45°</td><td></td><td></td><td>X</td></tr> <tr><td>90°</td><td>X</td><td></td><td></td></tr> <tr><td>135°</td><td>X</td><td>X</td><td></td></tr> <tr><td></td><td>5</td><td>3</td><td>1*</td></tr> </table> <p>02449E00</p> <p><b>Attention! The contact 2-1 is a normally open contact with positive closing</b></p>		6	4	2*	45°			X	90°	X			135°	X	X			5	3	1*	<b>8008/2-163</b>	0.186															
	6	4	2*																																			
45°			X																																			
90°	X																																					
135°	X	X																																				
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170	<table border="1"> <tr><td></td><td>11</td><td>21</td><td>33</td><td>43</td></tr> <tr><td>45°</td><td>X</td><td>X</td><td></td><td></td></tr> <tr><td>90°</td><td></td><td>X</td><td></td><td>X</td></tr> <tr><td>135°</td><td></td><td></td><td>X</td><td>X</td></tr> <tr><td></td><td>12</td><td>22</td><td>34</td><td>44</td></tr> </table> <p>10840E00</p>		11	21	33	43	45°	X	X			90°		X		X	135°			X	X		12	22	34	44	<b>8008/2-170</b>	0.186										
	11	21	33	43																																		
45°	X	X																																				
90°		X		X																																		
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	12	22	34	44																																		
196	<table border="1"> <tr><td></td><td>13</td><td>23</td><td>33</td><td>PE</td></tr> <tr><td>0°/360°</td><td></td><td></td><td></td><td></td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>180°</td><td></td><td></td><td></td><td></td></tr> <tr><td>270°</td><td>X</td><td>X</td><td>X</td><td></td></tr> <tr><td>360°/0°</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>14</td><td>24</td><td>34</td><td>N</td></tr> </table> <p>02450E00</p>		13	23	33	PE	0°/360°					90°	X	X	X		180°					270°	X	X	X		360°/0°						14	24	34	N	<b>8008/2-196</b>	0.186
	13	23	33	PE																																		
0°/360°																																						
90°	X	X	X																																			
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197	<table border="1"> <tr><td></td><td>6</td><td>4</td><td>2</td></tr> <tr><td>45°</td><td></td><td></td><td>X</td></tr> <tr><td>90°</td><td>X</td><td></td><td></td></tr> <tr><td>135°</td><td>X</td><td>X</td><td></td></tr> <tr><td></td><td>5</td><td>3</td><td>1</td></tr> </table> <p>02451E00</p> <p><b>Attention! The contact 2-1 is a normally open contact with positive closing</b></p>		6	4	2	45°			X	90°	X			135°	X	X			5	3	1	<b>8008/2-197</b>	0.186															
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45°			X																																			
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135°	X	X																																				
	5	3	1																																			
1114	<table border="1"> <tr><td></td><td>13</td><td>23</td><td>31</td><td>43</td></tr> <tr><td>0°</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>45°</td><td></td><td>X</td><td></td><td></td></tr> <tr><td>90°</td><td></td><td></td><td>X</td><td></td></tr> <tr><td>135°</td><td></td><td></td><td></td><td>X</td></tr> <tr><td></td><td>14</td><td>24</td><td>32</td><td>44</td></tr> </table> <p>10927E00</p>		13	23	31	43	0°	X				45°		X			90°			X		135°				X		14	24	32	44	<b>8008/2-1114</b>	0.186					
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1136	<table border="1"> <tr><td></td><td>13</td><td>21</td><td>33</td><td>43</td></tr> <tr><td>0°</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>45°</td><td></td><td>X</td><td></td><td></td></tr> <tr><td>90°</td><td></td><td></td><td>X</td><td></td></tr> <tr><td>135°</td><td></td><td></td><td></td><td>X</td></tr> <tr><td></td><td>14</td><td>22</td><td>34</td><td>44</td></tr> </table> <p>10833E00</p>		13	21	33	43	0°	X				45°		X			90°			X		135°				X		14	22	34	44	<b>8008/2-1136</b>	0.186					
	13	21	33	43																																		
0°	X																																					
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135°				X																																		
	14	22	34	44																																		

# Control switch/load disconnect switch

## Series 8008



Selection Table


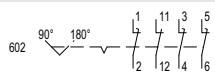
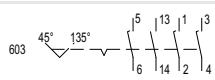
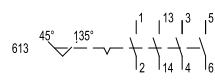
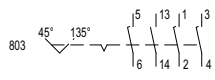
Version	Switching arrangements Assembly Additional information	Order number	Weight  kg																														
	<table border="1"> <tr><td></td><td>1</td><td>3</td><td>5</td></tr> <tr><td>0°</td><td></td><td></td><td></td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>2</td><td>4</td><td>6</td></tr> </table> <p>1140</p> <p>05697E00</p>		1	3	5	0°				90°	X	X	X		2	4	6	<b>8008 / 2-1140</b>	0.186														
	1	3	5																														
0°																																	
90°	X	X	X																														
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	11	23	33	43																													
0°	X																																
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	11	23	31	43																													
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	13	21	33	43																													
0°	X		X																														
45°			X																														
90°		X																															
135°				X																													
	14	22	34	44																													

E4

# Control switch/load disconnect switch

## Series 8008

### Selection Table

Version	Switching arrangements Assembly Additional information	Order number	Weight  kg																				
8008/2 Load switch 3 pole + auxiliary contact   01833E00	<table border="1"> <tr><td></td><td>1</td><td>11</td><td>3</td><td>5</td></tr> <tr><td>90°</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>180°</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>2</td><td>12</td><td>4</td><td>6</td></tr> </table> 602  10836E00		1	11	3	5	90°	X	X	X	X	180°						2	12	4	6	<b>8008/2-602</b>	0.225
		1	11	3	5																		
	90°	X	X	X	X																		
	180°																						
	2	12	4	6																			
<table border="1"> <tr><td></td><td>5</td><td>13</td><td>1</td><td>3</td></tr> <tr><td>45°</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>135°</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>6</td><td>14</td><td>2</td><td>4</td></tr> </table> 603  10837E00		5	13	1	3	45°	X	X	X	X	135°						6	14	2	4	<b>8008/2-603</b>	0.225	
	5	13	1	3																			
45°	X	X	X	X																			
135°																							
	6	14	2	4																			
<table border="1"> <tr><td></td><td>1</td><td>13</td><td>3</td><td>5</td></tr> <tr><td>45°</td><td></td><td></td><td></td><td></td></tr> <tr><td>135°</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>2</td><td>14</td><td>4</td><td>6</td></tr> </table> 613  10838E00		1	13	3	5	45°					135°	X	X	X	X		2	14	4	6	<b>8008/2-613</b>	0.225	
	1	13	3	5																			
45°																							
135°	X	X	X	X																			
	2	14	4	6																			
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	5	13	1	3																			
45°	X	X	X	X																			
135°																							
	6	14	2	4																			

Note

The standard contact arrangements are examples, other 3 or 4 pole versions are available

### Technical Data

#### Electrical data

Rated insulation voltage	max. 690 V AC
Rated frequency	50 / 60 Hz
Rated operational voltage	max. 690 V AC / 230 V DC
Rated impulse withstand voltage	max. 6 kV (load disconnect switch), 4 kV (control switch)
Rated operational current	max. 16 A
Contacts	max. 4-pole; NC with positive opening for EM-STOP



# Control switch/load disconnect switch

## Series 8008



### Technical Data

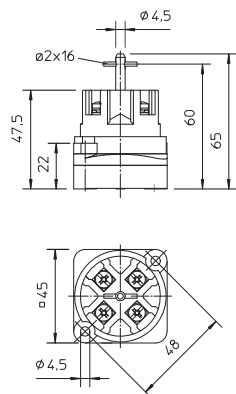
Switching capacity	acc. to IEC/EN 60947-1; IEC/EN 60947-3; IEC/EN 60947-5-1: Control switch 8008/2-0, 8008/2-1			
	AC-1	AC-11	AC-15	DC-13 (L/R=300 ms)
	690 V, 16 A	660 V, 2.5 A 500 V, 4 A 380 V, 6 A 220 V, 6 A	415 V, 16 A	230 V, 0.4 A
	DC-11 (L/R=100 ms)	DC-11 (L/R=50 ms)	DC-11 (L/R=1 ms)	
	220 V, 0.4 A	220 V, 0.6 A	220 V, 1.0 A	
	110 V, 1.0 A	110 V, 1.6 A	110 V, 4.0 A	
	60 V, 4.0 A	60 V, 6.0 A	60 V, 16.0 A	
	Load disconnect switch 8008/2-6			
	AC-3	DC-1	DC-3	DC-5
	690 V, 16 A	60 V, 10 A <sup>1)</sup> 60 V, 10 A <sup>2)</sup> 110 V, 10 A <sup>2)</sup> 60 V, 10 A <sup>3)</sup> 110 V, 10 A <sup>3)</sup> 220 V, 10 A <sup>3)</sup>	60 V, 4 A <sup>1)</sup> 60 V, 10 A <sup>2)</sup> 110 V, 6 A <sup>2)</sup> 60 V, 10 A <sup>3)</sup> 110 V, 10 A <sup>3)</sup> 220 V, 4 A <sup>3)</sup>	60 V, 2.5 A <sup>1)</sup> 60 V, 6 A <sup>2)</sup> 110 V, 4 A <sup>2)</sup> 60 V, 10 A <sup>3)</sup> 110 V, 6 A <sup>3)</sup> 220 V, 2 A <sup>3)</sup>
	<sup>1)</sup> 1 conducting path <sup>2)</sup> 2 conducting paths in series <sup>3)</sup> 3 conducting paths in series			
Short-circuit protection	Back-up fuse max. 32 A gG Note: The overload protection of the consumers must be performed independently of the back-up fuse.			
Rated short-time withstand current I <sub>cw</sub>	0.3 kA (1s)			
Service life	mechanical: 500,000 operating cycles			
<b>Ambient conditions</b>				
Operating temperature	-50 ... +80 °C Versions applicable in temperatures down to -60°C, with grease containing silicone, on request			
Contact opening	Control switch	Load disconnect switch		
	8008/2-0 8008/2-1	8008/2-6		
	min. 2 x 2 mm	min. 2 x 3 mm		
<b>Mechanical data</b>				
Material	Epoxy resin			
Enclosure	Silver-nickel, 8008/2-.....-AU (gold-plated)			
Contacts	3			
Degree of pollution	3			

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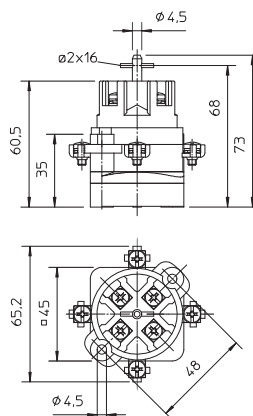
# Control switch/load disconnect switch

## Series 8008

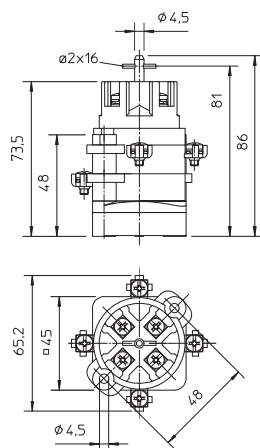
### Dimensional Drawings (all dimensions in mm) - Subject to alterations



8008/2-0..



8008/2-1..



8008/2-6..

### Accessories and Spare Parts







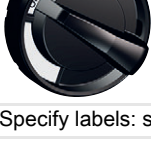





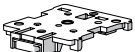
Designation	Picture	Description	Note	Art. no.	Weight kg
Small rotary actuator with knob		Ø39, can be locked with one lock, 90° position	with standard seal for up to -20 °C	227359	0.040
		Ø39, can be locked with one lock, 90° position	with silicone seal for up to -60 °C	227360	0.040
		Ø39, can be locked with one lock, 45° position	with standard seal for up to -20 °C	227391	0.040
		Ø39, can be locked with one lock, 45° position	with silicone seal for up to -60 °C	227392	0.040
Specify labels: see below					

# Control switch/load disconnect switch

## Series 8008



### Accessories and Spare Parts

Designation	Picture	Description	Note	Art. no.	Weight kg
Additional symbol disc for small actuators		Label holder, size 1, without insert disc, 1-row label	--	<b>223566</b>	
		Label holder, size 2, without insert disc, 1- or 2-row label	--	<b>223567</b>	
		Label holder, size 3, without insert disc, 1-, 2- or 3-row label	--	<b>223568</b>	
	Other designation plates available on request				
Large rotary actuator		Black handle, black protective collar, Ø65, handle in 90° position, uninstalled	with standard seal for up to -20 °C	<b>227223</b>	0.040
		Black handle, black protective collar, Ø65, handle in 90° position, uninstalled	with silicone seal for up to -60 °C	<b>227224</b>	0.040
		Black handle, black protective collar, Ø65, handle in 45° position, uninstalled	with standard seal for up to -20 °C	<b>227225</b>	0.040
		Black handle, black protective collar, Ø65, handle in 45° position, uninstalled	with silicone seal for up to -60 °C	<b>227226</b>	0.040
Specify labels: see below					
Symbol discs for large actuators		Ø58; 0/OFF I/ON	--	<b>227004</b>	0.002
		Ø58; 0 operation I	--	<b>227005</b>	0.002
		Ø58; 0 I II	--	<b>227006</b>	0.002
Other designation plates available on request					
Rotary actuator for safety switch		Black handle, black protective collar, Ø65, handle in 90° position, uninstalled	with silicone seal for up to -60 °C	<b>253174</b>	
		Red handle, yellow protective collar, Ø65, handle in 90° position, pre-installed with 0/OFF I/ON label	with silicone seal for up to -60 °C	<b>253175</b>	
Adaptor		for installation of control switch 8008 on mounting rail TS35	--	<b>130954</b>	0.022

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We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.