

IP 66



- Enclosures made of glass-fibre reinforced polyester resin or stainless steel **AISI 316L**
- 3 basic enclosure sizes in GRP
- 3 basic enclosure sizes in stainless steel
- Alone or in various combinations of merged set
- Equipped with built-in components
  - ⇒ Control devices
  - ⇒ Indicating lamps
  - ⇒ Pushbuttons
  - ⇒ Switches
  - ⇒ Ammeters
- Version with hinged doors

### CONSTRUCTION

Enclosure: polyester plastic reinforced with glass fiber, color - black  
Stainless steel AISI 316L, brush finished, thickness 1.5mm

Cover: with integrated thermoplastic elastomer gasket, closes with four/six M5/M6 stainless steel screws.

### TECHNICAL DATA

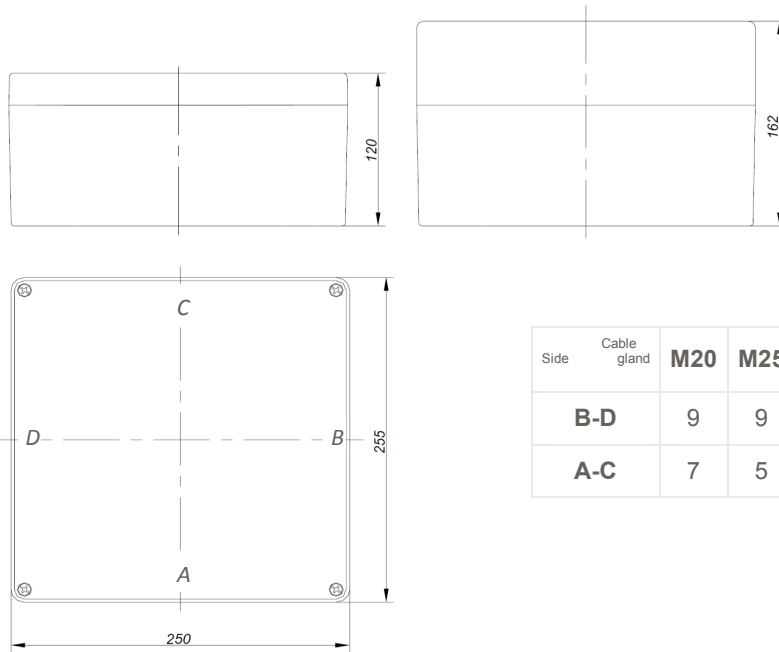
<b>Certificate:</b>	EXA 14 ATEX 0029, EXA 15 ATEX 0036 RU C-HR.AB24.B.03291, RU C-HR.AB24.B.03294
<b>Marking:</b>	CE 0722
<b>Apparatus category:</b>	II 2GD
<b>Marking of explosion protection:</b>	Ex db eb mb ia/ib IIC T4...T6 Gb Ex tb IIIC T80°C Db
<b>Ambient temperature ATEX:</b> <b>EAC:</b>	-20°C ≤ T <sub>a</sub> ≤ +50°C -50°C ≤ T <sub>a</sub> ≤ +50°C
<b>Degree of protection:</b>	IP 66 category 1
<b>Resistance to shock:</b>	IK 08
<b>Protection class :</b>	I (protective earthing)
<b>Rated voltage:</b>	690 V AC (with mantle terminals block SL5, SL8 U <sub>i</sub> = 400V AC)
<b>Nominal current:</b>	Up to 80 A
<b>PE terminals (inside of the enclosure):</b>	max. 2x4 mm <sup>2</sup> +2x2,5 mm <sup>2</sup> , 3x4 mm <sup>2</sup> , 2x6 mm <sup>2</sup>
<b>Connection:</b>	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.

Control units SKX 16, SKX 18, SKX 20 are Ex combinations configured according to customer demand. Type designation consists of a basic type designation - SKX 16, SKX 18, SKX 20, "I" for enclosure made of SS AISI 316L and SRU number that represents the number of production and assigns to the increment.

*Example: SKX 18 I / SRU -1280*

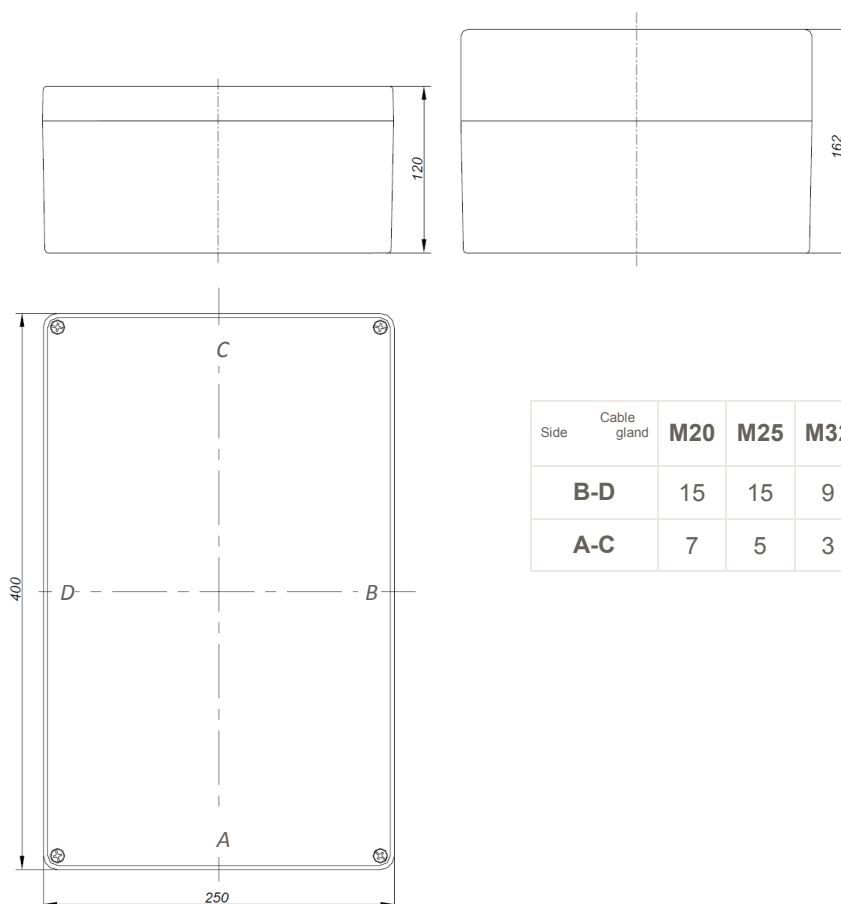
- ⇒ *managing the combination of the housing MMK 403016*
- ⇒ *I - stainless steel enclosure AISI 316L*
- ⇒ *performed by production number 1280*

## GRP enclosure SKX 16



Side	Cable gland	M20	M25	M32	M40	M50	M63
<b>B-D</b>		9	9	5	3	3	2
<b>A-C</b>		7	5	3	3	-	-

## GRP enclosure SKX 18

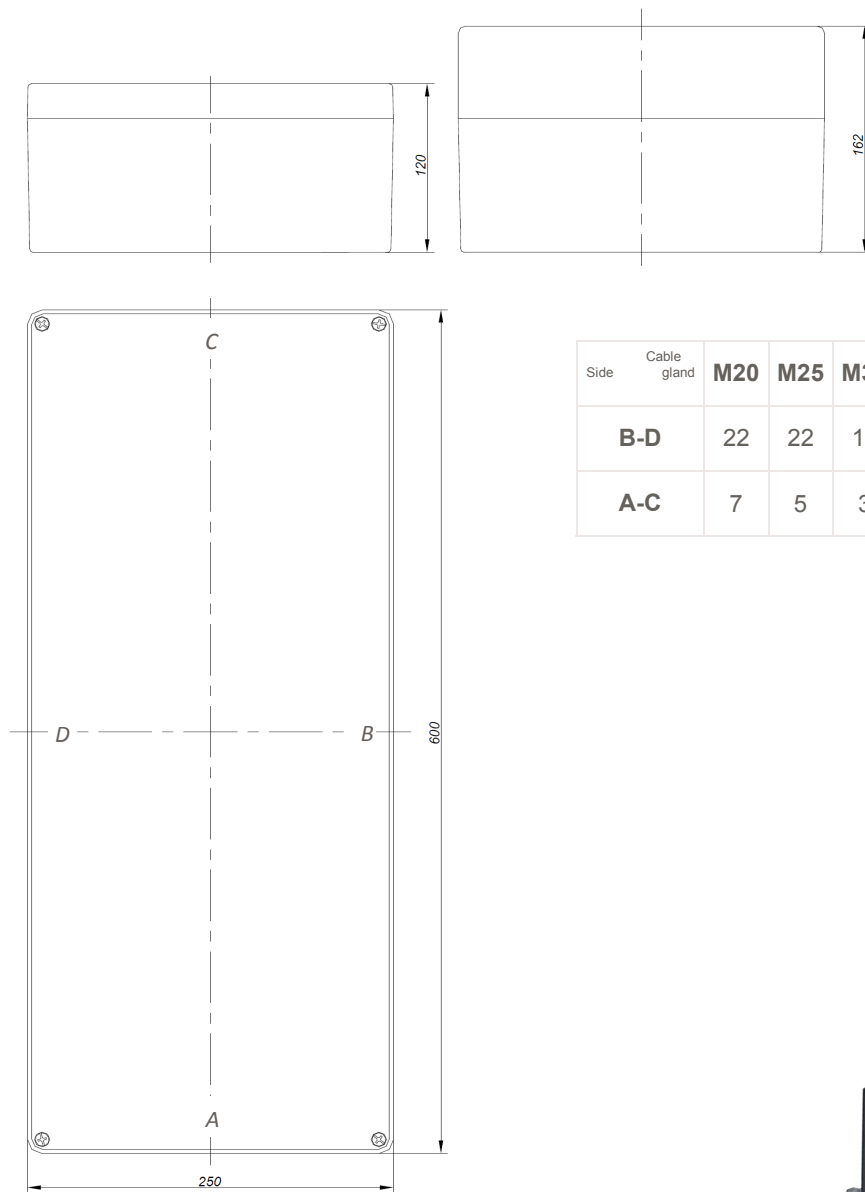


Side	Cable gland	M20	M25	M32	M40	M50	M63
<b>B-D</b>		15	15	9	6	5	4
<b>A-C</b>		7	5	3	3	-	-

All technical data is relevant at the time of print.

# SKX 16, 18, 20

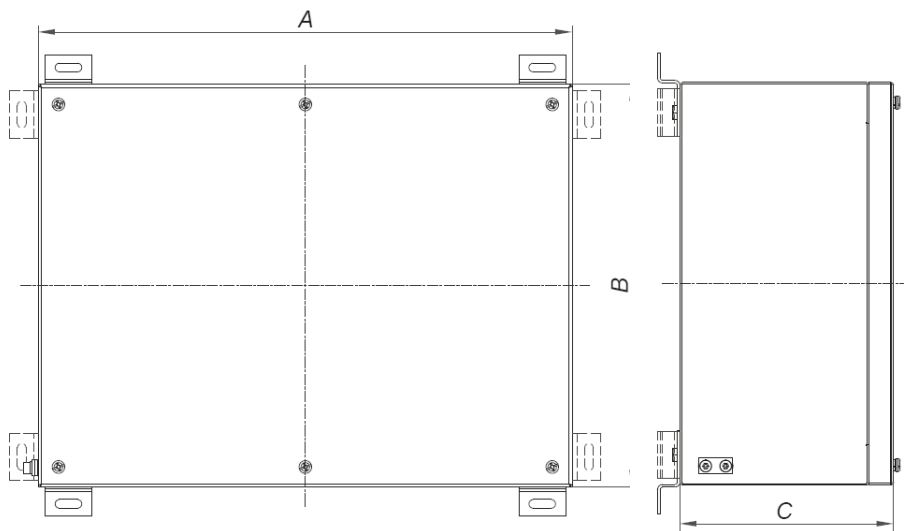
## GRP enclosure SKX 20



### Example: Ex control units with GRP enclosures

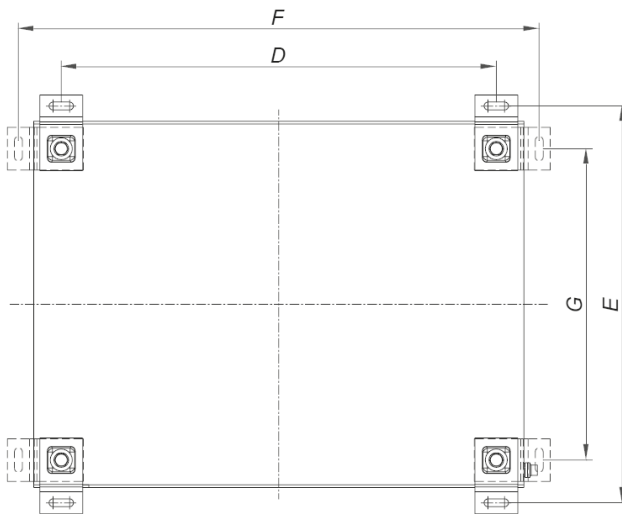


## Stainless steel AISI 316L enclosure SKX 16 I, SKX 18 I, SKX 20 I



	A[mm]	B[mm]	C[mm]
SKX 16 I	300	200	120
SKX 18 I	400	300	160
SKX 20 I	600	400	160

## MOUNTING



	D[mm]	E[mm]	F[mm]	G[mm]
SKX 16 I	255	227	330	152
SKX 18 I	355	327	430	252
SKX 20 I	555	427	630	352


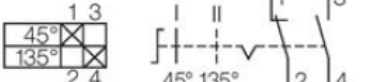
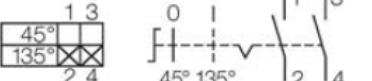
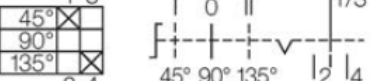
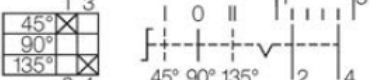
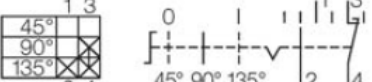
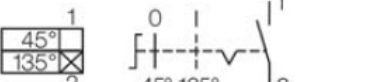

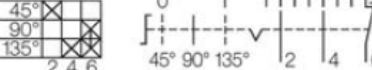
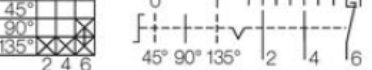
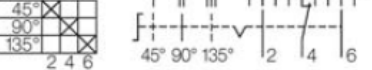
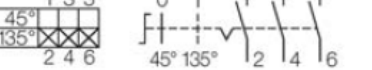
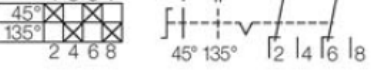
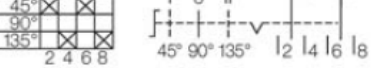
## Example: Ex control units with stainless steel AISI 316L enclosures



BUILD-IN COMPONENTS

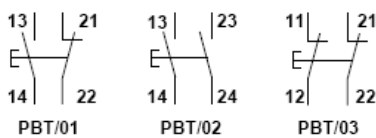



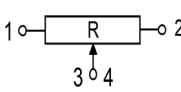



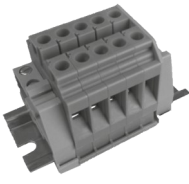

Description, type	Schema	Overview																										
<p>Control switch SMS 03/.</p> <p>II 2G I M2 Ex de I/IC Gb Mb</p> <ul style="list-style-type: none"> <li>• Rated voltage: 630 V AC</li> <li>• Rated current: 16 A</li> <li>• Terminals: 2,5 mm<sup>2</sup></li> </ul>	<table border="1"> <thead> <tr> <th data-bbox="459 287 889 332">SHEMA</th> <th data-bbox="889 287 1065 332">TYPE</th> </tr> </thead> <tbody> <tr> <td data-bbox="459 332 889 431"> </td> <td data-bbox="889 332 1065 431">SMS 03/1</td> </tr> <tr> <td data-bbox="459 431 889 530"> </td> <td data-bbox="889 431 1065 530">SMS 03/4</td> </tr> <tr> <td data-bbox="459 530 889 661"> </td> <td data-bbox="889 530 1065 661">SMS 03/5</td> </tr> <tr> <td data-bbox="459 661 889 753"> </td> <td data-bbox="889 661 1065 753">SMS 03/6</td> </tr> <tr> <td data-bbox="459 753 889 851"> </td> <td data-bbox="889 753 1065 851">SMS 03/12</td> </tr> <tr> <td data-bbox="459 851 889 943"> </td> <td data-bbox="889 851 1065 943">SMS 03/3</td> </tr> <tr> <td data-bbox="459 943 889 1042"> </td> <td data-bbox="889 943 1065 1042">SMS 03/2</td> </tr> <tr> <td data-bbox="459 1042 889 1141"> </td> <td data-bbox="889 1042 1065 1141">SMS 03/7</td> </tr> <tr> <td data-bbox="459 1141 889 1226"> </td> <td data-bbox="889 1141 1065 1226">SMS 03/10</td> </tr> <tr> <td data-bbox="459 1226 889 1317"> </td> <td data-bbox="889 1226 1065 1317">SMS 03/8</td> </tr> <tr> <td data-bbox="459 1317 889 1402"> </td> <td data-bbox="889 1317 1065 1402">SMS 03/9</td> </tr> <tr> <td data-bbox="459 1402 889 1517"> </td> <td data-bbox="889 1402 1065 1517">SMS 03/11</td> </tr> </tbody> </table>	SHEMA	TYPE		SMS 03/1		SMS 03/4		SMS 03/5		SMS 03/6		SMS 03/12		SMS 03/3		SMS 03/2		SMS 03/7		SMS 03/10		SMS 03/8		SMS 03/9		SMS 03/11	
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	SMS 03/9																											
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<p>Main current switch GHG 260</p> <ul style="list-style-type: none"> <li>• Rated voltage: 690 V AC</li> <li>• Rated current : 40 - 80 A</li> <li>• Terminals: 16 - 25 mm<sup>2</sup></li> </ul>																												

## BUILD-IN COMPONENTS

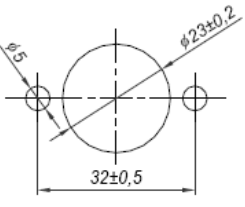
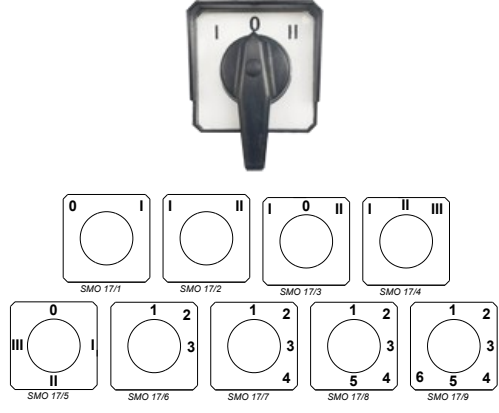
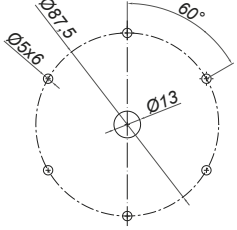

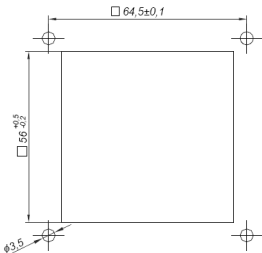

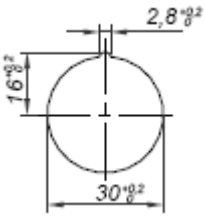

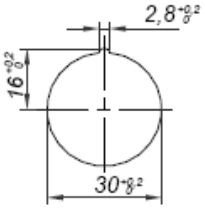

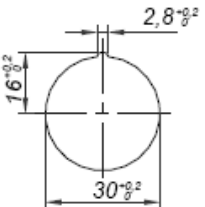

Description, type	Schema	Overview
		060
		062
		065
		061
		063
		067
Control switch GHG 23.		011
II 2GD Ex de IIC •Rated voltage: 690 V AC •Rated current : 10 A •Terminals: 2,5 mm <sup>2</sup>		034
		037
		049
		023
		019
		033
		024



## BUILD-IN COMPONENTS



Description, type	Schema	Overview
<p>Pushbutton PBT/.</p> <ul style="list-style-type: none"> <li>Rated voltage: 630V AC</li> <li>Rated current: 16A</li> <li>Terminals: 2,5 mm<sup>2</sup></li> </ul>		
<p>Signal lamp SLP</p> <ul style="list-style-type: none"> <li>Rated voltage: 12-250 V AC/DC</li> <li>Max. current: 20-8 mA</li> <li>Terminals: 2,5 mm<sup>2</sup></li> </ul>		
<p>Potentiometer PBT/POT</p> <ul style="list-style-type: none"> <li>Rated voltage: 315 V AC/DC</li> <li>Rated power: 1W</li> <li>Scale: 0-100% / 270°</li> <li>Tolerance: ±20%</li> <li>Characteristic: linear</li> <li>Terminals: 2,5 mm<sup>2</sup></li> </ul>	 <p>Resistance R:  1,0 kΩ  2,2 kΩ  4,7 kΩ  10 kΩ  470 kΩ</p>	
<p>Measuring instruments AM 72, VM 72</p> <ul style="list-style-type: none"> <li>Measuring range:  AM: n/1 A, 0-20 mA, 0-25 A  direct 4-20 mA  VM: n/1A, 6-415V, 6-660 V</li> <li>Scale: according to customer demand</li> <li>Terminals: 1,5 - 4 mm<sup>2</sup></li> </ul>	<p>-</p>	
<p>Mantle terminals SL5, SL8</p> <ul style="list-style-type: none"> <li>Rated voltage: 400 V</li> <li>Rated current: 16 A AC</li> <li>Terminals: 4 mm<sup>2</sup></li> <li>Max. No. of wire under one clamp:  2x4mm<sup>2</sup> + 2x2,5mm<sup>2</sup>, 3x4mm<sup>2</sup></li> </ul>	<p>-</p>	
<p>Terminals TH 35-7.5</p> <ul style="list-style-type: none"> <li>5 terminals 4mm<sup>2</sup></li> <li>2 terminals 16mm<sup>2</sup></li> <li>Rated voltage: 690 V AC</li> <li>Rated current: 16 A</li> </ul>	<p>-</p>	
<p>N/PE busbar (only for SKX 15)</p> <ul style="list-style-type: none"> <li>11x max. 2x4mm<sup>2</sup></li> </ul>	<p>-</p>	

## ACTUATORS AND INDICATORS

Description, type	Mounting	Overview																				
<p>Switch actuator SMO 17/.</p> <p>II 2G II 2D I M2 Ex e I/IIC Gb Mb Ex t IIIC Db</p>																						
<p>Switch actuator GHG 260 1006</p>																						
<p>Front element of measuring instruments SAM 72</p> <p>II 2G II 2D I M2 Ex e I/IIC Gb Mb Ex t IIIC Db</p>																						
<p>Puschbitton actuator SPO 01/.</p> <p>II 2G II 2D I M2 Ex e I/IIC Gb Mb Ex t IIIC Db</p>		<p>Type SPO 01/.</p> <table border="1" data-bbox="1209 1297 1502 1630"> <tr><td>SPO 01/01</td><td>0</td></tr> <tr><td>SPO 01/02</td><td>I</td></tr> <tr><td>SPO 01/03</td><td>II</td></tr> <tr><td>SPO 01/04</td><td>RED</td></tr> <tr><td>SPO 01/05</td><td>GREEN</td></tr> <tr><td>SPO 01/06</td><td>WHITE</td></tr> <tr><td>SPO 01/07</td><td>START</td></tr> <tr><td>SPO 01/08</td><td>STOP</td></tr> <tr><td>SPO 01/09</td><td>ON</td></tr> <tr><td>SPO 01/10</td><td>OFF</td></tr> </table> 	SPO 01/01	0	SPO 01/02	I	SPO 01/03	II	SPO 01/04	RED	SPO 01/05	GREEN	SPO 01/06	WHITE	SPO 01/07	START	SPO 01/08	STOP	SPO 01/09	ON	SPO 01/10	OFF
SPO 01/01	0																					
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SPO 01/07	START																					
SPO 01/08	STOP																					
SPO 01/09	ON																					
SPO 01/10	OFF																					
<p>Front element of signal lamp SPO 02/.</p> <p>II 2G II 2D I M2 Ex e I/IIC Gb Mb Ex t IIIC Db</p>		<p>Type SPO 02/.</p> <table border="1" data-bbox="1209 1687 1502 1825"> <tr><td>SPO 02/01</td><td>RED</td></tr> <tr><td>SPO 02/02</td><td>GREEN</td></tr> <tr><td>SPO 02/03</td><td>YELLOW</td></tr> <tr><td>SPO 02/04</td><td>TRANSPARENT</td></tr> </table> 	SPO 02/01	RED	SPO 02/02	GREEN	SPO 02/03	YELLOW	SPO 02/04	TRANSPARENT												
SPO 02/01	RED																					
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SPO 02/04	TRANSPARENT																					
<p>Key-operated pushbutton actuator GHG 410 1904 R0012</p> <p>II 2GD Ex e II IP66</p>																						



## ACTUATORS AND INDICATORS

Description, type	Mounting	Overview
Mushroom-head pushbutton actuator GHG 418 815 ..R.. (EMERGENCY-STOP)  II 2GD Ex e II IP66		
Key-operated mushroom-head pushbutton actuator GHG 418 815 ..R.. (EMERGENCY-STOP)  II 2GD Ex e II IP66		
Potentiometer acuator GHG 410 1944 R0010  II 2GD Ex e II IP66		
Cable gland SPU ISO 16 - ISO 40  II 2G II 2D Ex e I/IIC Gb Ex t IIIC Db		
Cable gland for armoured cable SPU A ISO 16 - ISO 40  II 2G II 2D Ex e I/IIC Gb Ex t IIIC Db		
Plug SPC .. ISO 16 - ISO M40  II 2G II 2D Ex e I/IIC Gb Ex t IIIC Db		
Connection part SKX		

## BUILD-IN COMPONENTS

Description, type	Schema	Overview
<p>Main fuse NH0 300XX, NH0, 301XX</p>	-	
<p>BUILD IN SOCKET 16 A (3p/5p), 32A (4p)</p> <p>II 2G Ex de IIC II 2D Ex tD A21 IP66 T80°C</p>	-	
<p>RESIDUAL CURRENT CIRCUIT BREAKERS</p> <p>2p/4p 25/40/63 A, 30 mA, 10 kA with or without auxiliary contact</p> <p>II 2G Ex d e IIC Gb</p>	-	
<p>DIGITAL INDIKATOR VEGADIS 175 Ex</p> <p>II 1G EEx ia IIC T6</p>	-	
<p>HRC FUSE, Ex d HOUSING 3p NH00C the base and fuse</p> <p>II 2G Ex de IIC I M2 Ex de I</p>	-	