


Selection table for safety switches GP

Connection		Switching element		Page
M	SR11	Two contacts	Four contacts	
		<p>Thread M20 x 1.5 for cable gland Plug connector; 11 pin + PE</p>		
			<p>1 NC ⊖ + 1 NO, 2 NC ⊖ 2 NC ⊖ + 2 NO, 3 NC ⊖ + 1 NO, 4 NC</p>	
M	SR11	Two contacts	Four contacts	32
•		•	•	33
	•		•	





Safety switch GP

- ▶ Cable entry M20 x 1.5
- ▶ Plug connector optional



Approach direction



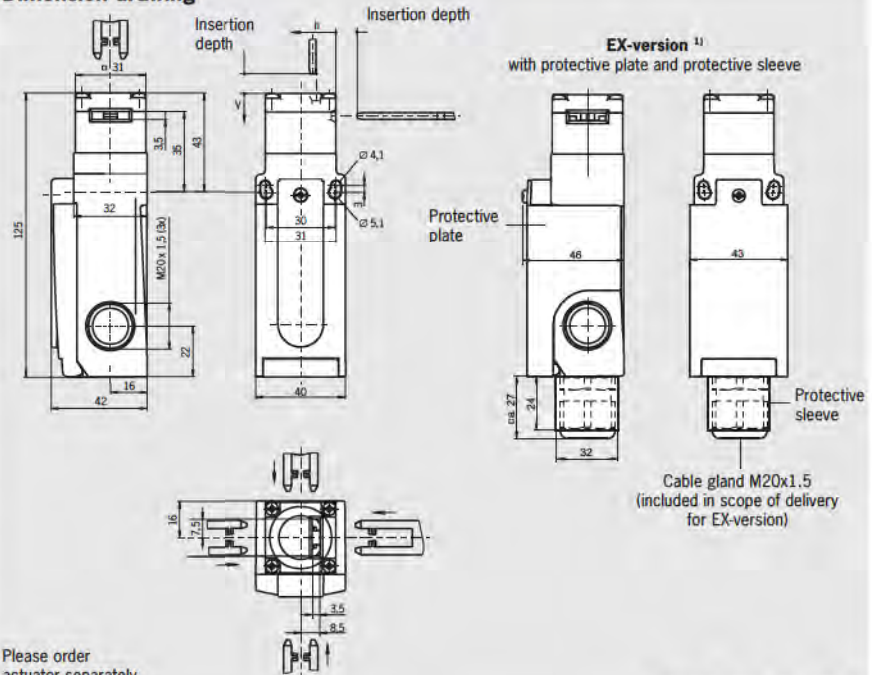
Horizontal and vertical
Can be adjusted in 90° steps

Switching elements

- ▶ **528** Slow-action switching element
1 NC ⊖ + 1 NO
- ▶ **538** Slow-action switching element
2 NC ⊖
- ▶ **2121** Slow-action switching element
4 NC ⊖
- ▶ **2131** Slow-action switching element
3 NC ⊖ + 1 NO
- ▶ **3131** Slow-action switching element
2 NC ⊖ + 2 NO

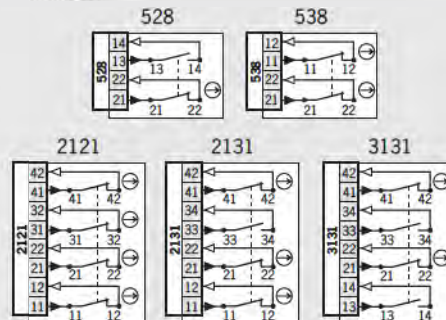
Cable entry M20 x 1.5

Dimension drawing



For cable glands see page 89

Wiring diagrams Actuator inserted



Ordering table

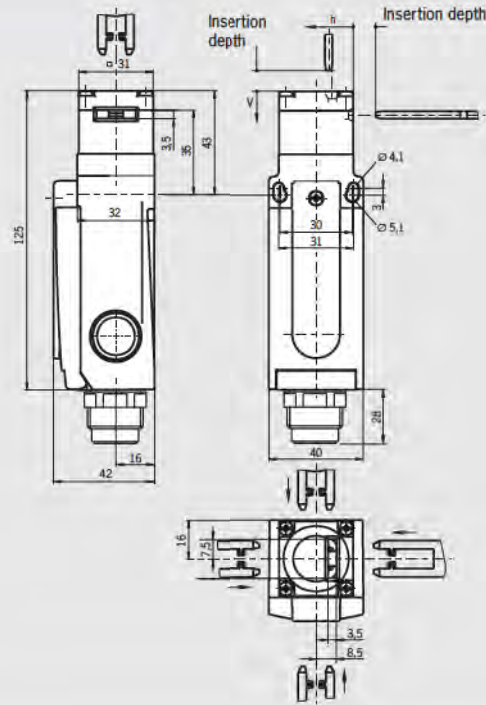
Series	Connection	Switching element	Version	Order No. / Item
GP	1 Cable entry 3 x M20 x 1.5	528 1 NC ⊖ + 1 NO		089 725 GP1-528A-M
		538 2 NC ⊖		090 250 GP1-538A-M
		2121 4 NC ⊖		090 252 GP1-2121A-M
		2131 3 NC ⊖ + 1 NO		090 255 GP1-2131A-M
		2131 3 NC ⊖ + 1 NO	ATEX Incl. cable gland	095 702 11 GP1-2131A-M-EX
		3131 2 NC ⊖ + 2 NO		090 258 GP1-3131A-M

1) Ⓢ II 3 G Ex nC IIC T5 X
Ⓢ II 3 D Ex tD A22 T90°C X



Plug connector SR11
11-pin + PE

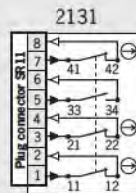
Dimension drawing



Please order actuator separately (see pages 76-79)

For plug connectors see page 86

Wiring diagrams Actuator inserted



Ordering table

Series	Connection	Switching element	Order No. / Item
GP	2 Plug connector SR11	2131 3 NC ⊖ + 1 NO	096 227 GP2-2131ASR11


For safety precautions see page 136
For technical data see page 99






Safety switch GP




The technical data on switches and switching elements apply to all connections. Further technical data are given for the connection selected.

Switch			
Parameter	Value		Unit
Housing material	Reinforced thermoplastic		
Mechanical life	2 x 10 ⁶ operating cycles		
Ambient temperature	-20 ... +80		°C
Weight	approx. 0.16		kg
Max. approach speed	20		m/min
Actuating force	10		N
Extraction force	20		N
Retention force	2		N
Insertion depth (minimum required travel + permissible overtravel)	Standard actuators	Overtravel actuator	
Approach direction side (h)	28 + 2	28 + 7	mm
Approach direction from top (v)	29.5 + 1.5	29.5 + 7	mm

Switching element				
Parameter	Value			Unit
Switching principle	Slow-action switching element			
Switching elements with 2 switching elements	528 1 NC \ominus + 1 NO		538 2 NC \ominus	
Switching elements with 4 switching elements	2121 4 NC \ominus	2131 3 NC \ominus + 1 NO	3131 2 NC \ominus + 2 NO	
Switching current, min., at DC 24 V	1			mA
Switching voltage, min., at 10 mA	12			V
Contact material	Silver alloy, gold flashed			

Connection, cable entry M20 x 1.5			
Parameter	Value		Unit
Connection	Screw terminal		
Version	M20 x 1.5		
Conductor cross-section	0.34 ... 1.5		mm ²
Degree of protection according to IEC 60529	IP 67		
Rated insulation voltage U _i	250		V AC/DC
Rated impulse withstand voltage U _{imp}	2.5		kV
Conventional thermal current I _{th}	4		A
Short circuit protection according to IEC 60269-1 (control circuit fuse)	4		A gG
Utilization category to IEC 60947-5-1	AC-15	I _e 4 A U _e 230 V	
	DC-13	I _e 4 A U _e 24 V	

Plug connector SR11 connection			
Parameter	Value		Unit
Connection	Plug connector		
Version	11-pin + PE		
Degree of protection according to IEC 60529	IP 65 ¹⁾		
Rated insulation voltage U _i	50		V AC/DC
Rated impulse withstand voltage U _{imp}	1.5		kV
Conventional thermal current I _{th}	4		A
Short circuit protection according to IEC 60269-1 (control circuit fuse)	4		A gG
Utilization category to IEC 60947-5-1	AC-15	I _e 4 A U _e 50 V	
	DC-13	I _e 4 A U _e 24 V	

1) Screwed tight with the related plug connector (see page 86)

