

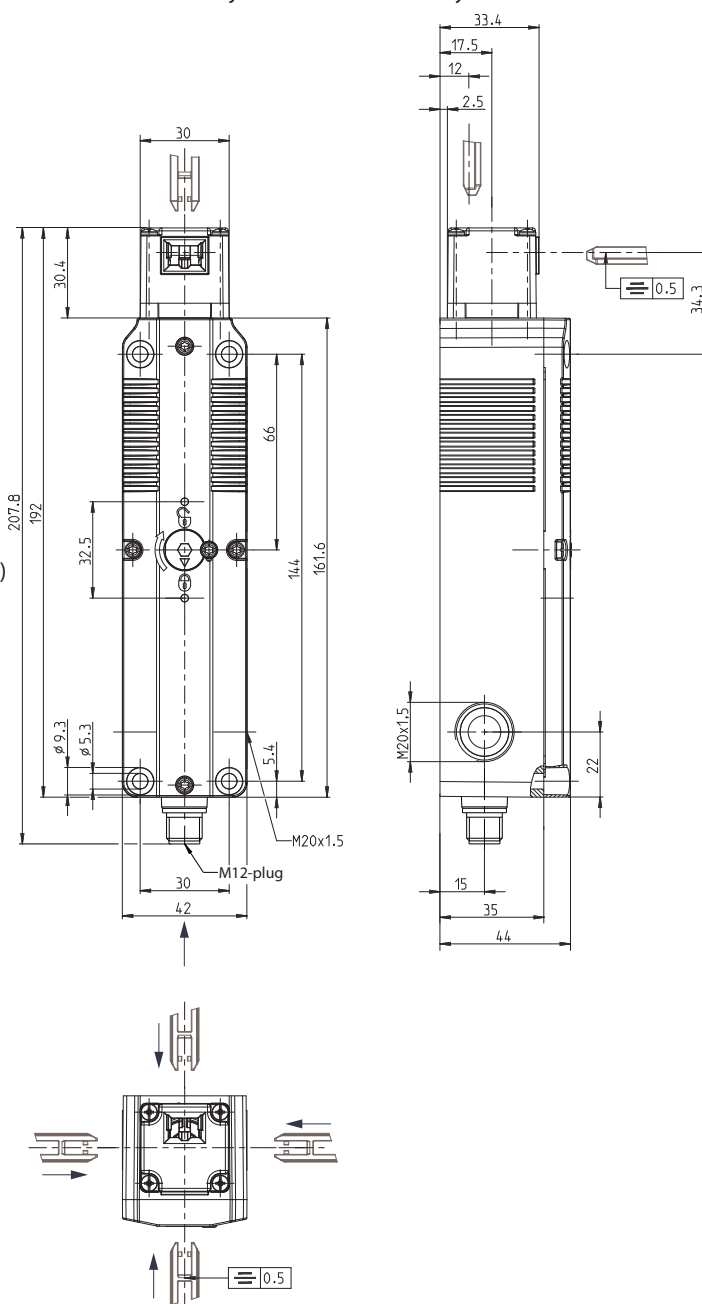
## Safety switch

### Series SLC

Description <b>SLC-F-024-10/20-R4-01</b>	Article number <b>6018200018</b>
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Position monitoring	
<p>Actuator inserted</p> <p>Protective device interlocked and guard locked</p> <p>without current</p>	<p>Actuator inserted</p> <p>Protective device interlocked and not guard locked</p> <p>with current</p>
<p>Pin 8- E1</p> <p>Pin 2- 11</p> <p>-- 21</p> <p>Pin 6- 31</p> <p>Pin 1- 41</p> <p>E2</p> <p>-Pin 7</p> <p>12 ⊖ -Pin 5</p> <p>22 ⊖ --</p> <p>32 ⊖ -Pin 3</p> <p>42 ⊖ -Pin 4</p>	<p>Pin 8-E1</p> <p>Pin 2- 11</p> <p>-- 21</p> <p>Pin 6- 31</p> <p>Pin 1- 41</p> <p>E2</p> <p>-Pin 7</p> <p>12 ⊖ -Pin 5</p> <p>22 ⊖ --</p> <p>32 ⊖ -Pin 3</p> <p>42 ⊖ -Pin 4</p>
<p>Actuator withdraw</p> <p>Protective device not interlocked and not guard locked</p> <p>with or without current</p>	<p><b>Plug</b></p> <p>(In the direction of the a</p>
<p>Pin 8- E1</p> <p>Pin 2- 11</p> <p>-- 21</p> <p>Pin 6- 31</p> <p>Pin 1- 41</p> <p>E2</p> <p>-Pin 7</p> <p>12 ⊖ -Pin 5</p> <p>22 ⊖ --</p> <p>32 ⊖ -Pin 3</p> <p>42 ⊖ -Pin 4</p>	

The actuator is not included in the scope of delivery. It can only be purchased in conjunction with the safety switch.



Electrical data		
Protection class	II, totally insulated	
Contact elements		
Rated insulation voltage	U <sub>i</sub>	30 V
Rated impulse withstand voltage	U <sub>imp</sub>	800 V
Rated operational voltage	U <sub>e</sub>	30 V DC
Conv. thermal current	I <sub>the</sub>	3 A
Utilization category	DC-13, U <sub>e</sub> / I <sub>e</sub> 24 V / 1,5 A	
Direct opening action	⊙	according to IEC/EN 60947-5-1, Annex K
Short-circuit protective device	4 A gG	
Rated conditional short-circuit current	400 A	
Electro magnet		
Duty cycle	100 % ED (at E1; E2)	
Temperature class	F (155 °C)	
Permanent power consumption	6,7 VA (W)	
Switch operations permanent	600 / h	
Operating voltage	24 V AC / DC (+10 % /-15 %)	

Mechanical data		
Enclosure	Thermoplastic, glass fibre reinforced (UL 94-V0)	
Cover	Thermoplastic, glass fibre reinforced (UL 94-V0)	
Actuating head	Thermoplastic, glass fibre reinforced / Zn-GD	
Actuator	Separate actuator	
Minimum actuating radius	$R_{min}$	see separate actuators data sheet
Velocity for actuating	$V_{max}$	0,5 m/s
Extraction force	≥ 27 N	
Interlocking principle	Spring force	
Unlocking	a) magnetic force b) auxiliary release from front and back side	
Hold on force	$F_{Zh}$	1500 N (EN ISO 14119)
Ambient air temperature	-25 °C ... +55 °C	
Contact type	Interlock: 1 NC Guard lock: 2 NC	
Switching principle	4 slow make and break contact elements	
Mechanical life	1 x 10 <sup>6</sup> switching cycles	
Assembly	4 x M5	
Connection	Plug connector, M12-plug, 8-pin, A-coded, DIN EN 61076-2-101	
Conductor cross-sections	0,34 ... 1,5 mm <sup>2</sup> flexible	
Cable entrance	2 x M20 x 1,5	
Weight	≈ 0,50 kg	
Installation position	operator definable	
Protection type	IP67 acc. to IEC/EN 60529 ; (UL 50 E / CSA C22.2) Type 6 indoor use	

ID for safety engineering	
B10d	2 x 10 <sup>6</sup> cycles

Standards	
	VDE 0660 T100, DIN EN 60947-1, IEC 60947-1
	VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1
	GS-ET-19 (DGVU)
	DIN EN ISO 14119
	DIN EN ISO 13849-1

EU Conformity	
	acc. to directive 2006/42/EC (Safety-of-Machinery-Directive)

Approvals		
	DGVU	(in preparation)
	cCSA <sub>US</sub>	(in preparation)
	CCC	

Notes
<p>The degree of protection specified (IP code) applies only to a properly closed cover and the use of an equivalent connector and when required the use of an equivalent cable gland with adequate cable.</p> <p>The connector and the cable (fix or flexible mounted) must at least be suitable for the described ambient air temperatures.</p> <p>The connector must not be connected or disconnected when voltage is applied.</p> <p>The mechanical life of the connector is 100 connection cycles.</p> <p>Suitable connector and cable must be used to meet approval requirements.</p> <p>The switch may not be used as a mechanical stop.</p> <p>When power is removed from the electromagnet (solenoid) the safety guard will be in locked position.</p>