

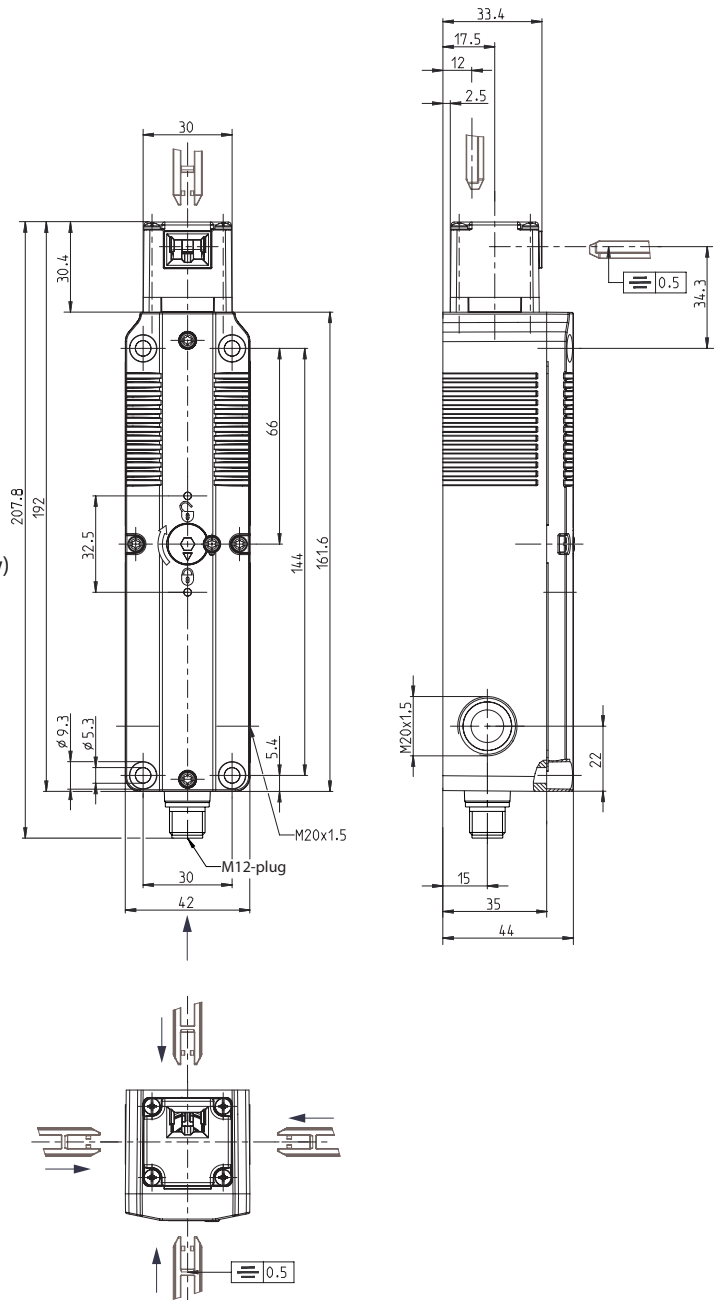
# Safety switch Series SLC


Description **SLC-M-024-10/20-R4-01**

Article number **6018200033**

Position monitoring	
<p>Actuator inserted Guard closed and locked</p> <p>with current</p>	<p>Actuator inserted Guard closed and not locked</p> <p>without current</p>
<p>Pin 8- E1  E2 -Pin 7 Pin 2- 11  12  -Pin 5 -- 21  22  -- Pin 6- 31  32  -Pin 3 Pin 1- 41  42  -Pin 4</p>	<p>Pin 8- E1  E2 -Pin 7 Pin 2- 11  12  -Pin 5 -- 21  22  -- Pin 6- 31  32  -Pin 3 Pin 1- 41  42  -Pin 4</p>
<p>Actuator withdraw Guard not closed and not locked</p> <p>with or without current</p>	<p><b>Plug</b> (In the direction of the arrow)</p>
<p>Pin 8- E1  E2 -Pin 7 Pin 2- 11  12  -Pin 5 -- 21  22  -- Pin 6- 31  32  -Pin 3 Pin 1- 41  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.



<b>Electrical data</b>	
Protection class	II, totally insulated
<b>Contact elements</b>	
Rated insulation voltage	$U_i$ 30 V
Rated impulse withstand voltage	$U_{imp}$ 800 V
Rated operational voltage	$U_e$ 24 V AC / DC
Conv. thermal current	$I_{the}$ 2 A
Utilization category acc. to IEC	DC-13, $U_e / I_e$ 24 V / 1,5 A
Utilization category acc. to UL / CSA	30 V / 2 A general use
Performance at min. current	1 mA, at 24V DC, $U_{KD}$ 2,4V DC
Direct opening action	 according to IEC/EN 60947-5-1, Annex K
Short-circuit protective device	2 A gG
Rated conditional short-circuit current	400 A
<b>Electro magnet</b>	
Duty cycle	100 % ED (at E1; E2)
Temperature class	F (155 °C)
Permanent power consumption	6,7 VA (W)
Switch operations permanent	10 / min
Operating voltage	24 V AC / DC (+10 % / -15 %)

<b>Mechanical data</b>	
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	≤ 10 N
Interlocking principle	Magnetic force
Unlocking	a) Spring force b) auxiliary release from front and back side
Holding force	$F_{Zh}$ 1500 N (EN ISO 14119)
Ambient air temperature	-25 °C to +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
Cable entrance	2 x M20x1,5
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 only

<b>ID for safety engineering</b>	
B10d	2 x 10 <sup>6</sup> Cycles (at DC-13; 24 V; 0,1 A)

Standards	
	DIN EN 60947-5-1, DIN EN 60947-5-4
	UL 508 18th Edition, CSA-C22.2 No.14-18
	GS-ET-19 (DGUV)
	DIN EN ISO 14119
	DIN EN ISO 13849-1

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

Approvals	
	DGUV
	cCSA <sub>US</sub>

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>In the event of a power failure, the guard does not remains locked.</p>	