

## Safety switch

### Series SLC

Description <b>SLC-F-024-11/20-R4</b>	Article number <b>6018200008</b>
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### Position monitoring (Interlock D)

Actuator  
inserted  
Guard closed and  
locked

Actuator  
inserted  
Guard closed and not  
locked

without current

with current

Actuator  
withdraw  
Guard not closed and  
not locked

with or without  
current

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>	250 V
Rated impulse withstand voltage	U <sub>imp</sub>	2,5 kV
Rated operational voltage	U <sub>e</sub>	240 V AC / 24 V AC/DC
Conv. thermal current	I <sub>the</sub>	5 A
Utilization category acc. to IEC		AC-15, U <sub>e</sub> / I <sub>e</sub> 240 V / 1,5 A DC-13, U <sub>e</sub> / I <sub>e</sub> 24 V / 1,5 A; 250 V / 0,11 A
Utilization category acc. to UL / CSA		B300 R300 (same polarity)
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		10 / min
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	$\leq 10$ N	
Interlocking principle	Spring force	
Unlocking	a) magnetic 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 (D): 1 NC, 1 NO Guard lock: 2 NC	
Switching principle	4 slow make and break contact elements	
Mechanical life	$1 \times 10^6$ switching cycles	
Assembly	4 x M5	
Connection	Screw connection	
Conductor cross-sections	0,34 ... 1,5 mm <sup>2</sup> flexible	
Cable entrance	3 x M20x1,5	
Weight	≈ 0,484 kg	
Installation position	operator definable	
Protection type	IP67 acc. to IEC/EN 60529 ; (UL 50 E / CSA C22.2) Type 6 indoor use only	

ID for safety engineering	
B10d	$2 \times 10^6$ Cycles (at DC-13; 24 V; 0,1 A)

Standards	
	DIN EN 60947-5-1
	UL 508 18th Edition, CSA-C22.2 No.14-18
	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>	
	CCC	

Notes
<p>The degree of protection (IP code) specified applies solely to a property closed cover and the use of an equivalent cable gland with adequate cable.</p> <p>The switch may not be used as a mechanical stop.</p> <p>In the event of a power failure, the guard remains locked.</p>