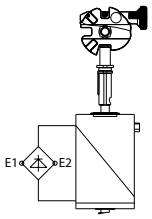
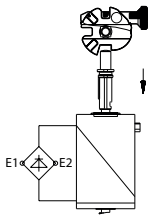
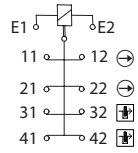
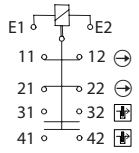
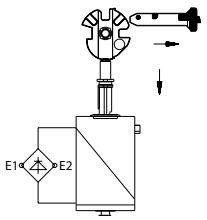
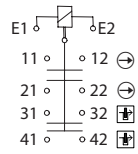
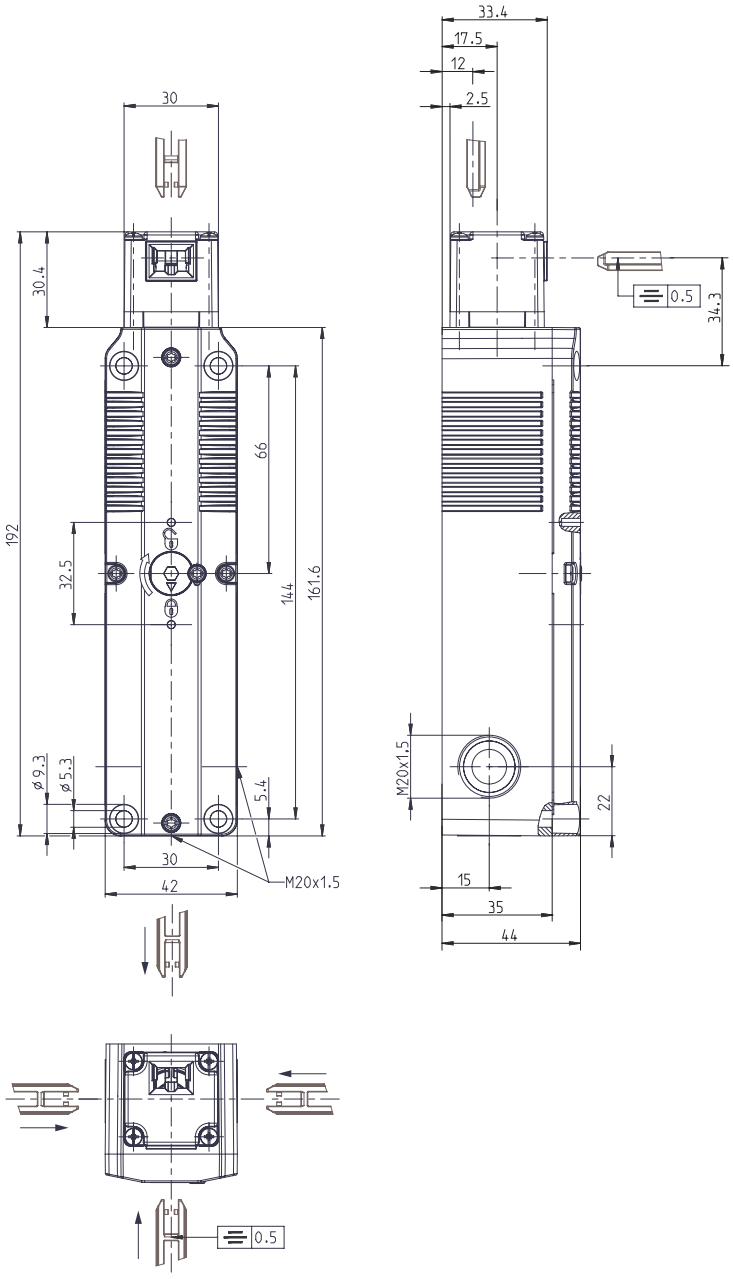
Safety switch
Series SLC

Description **SLC-F-024-20/20-R4** Article number **6018200007**

Position monitoring	
Actuator inserted Protective device interlocked and guard locked	Actuator inserted Protective device interlocked and not guard locked
 without current	 with current
	
Actuator withdraw Protective device not interlocked and not guard 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_i	250 V
Rated impulse withstand voltage	U_{imp}	2,5 kV
Rated operational voltage	U_e	240 V AC / 24 V AC/DC
Conv. thermal current	I_{the}	5 A
Utilization category acc. to IEC		AC-15, U_e / I_e 240 V / 1,5 A DC-13, U_e / I_e 24 V / 1,5 A; 250 V / 0,11 A
Utilization category acc. to UL / CSA		B300 R300 general use 240 V / 1,5 A general use M12 connector 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: 2 NC Guard lock: 2 NC
Switching principle		4 slow make and break contact elements
Mechanical life		1 x 10^6 switching cycles
Assembly		4 x M5
Connection		Screw connection
Conductor cross-sections		0,34 ... 1,5 mm^2 flexible
Cable entrance		3 x M20 x 1,5
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

ID for safety engineering	
B10d	2 x 10^6 cycles

Technical modifications and errors excepted.
The technical datasheet corresponds to the technical state as of 2019-03-11 and will not be removed in case of changes.

Standards	
	DIN EN 60947-5-1
	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	(in preparation)
	$_{c}CSA_{US}$ B300 (same polarity) / R300	(in preparation)
	CCC	

Notes
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. The switch may not be used as a mechanical stop. In the event of a power failure, the guard remains locked.