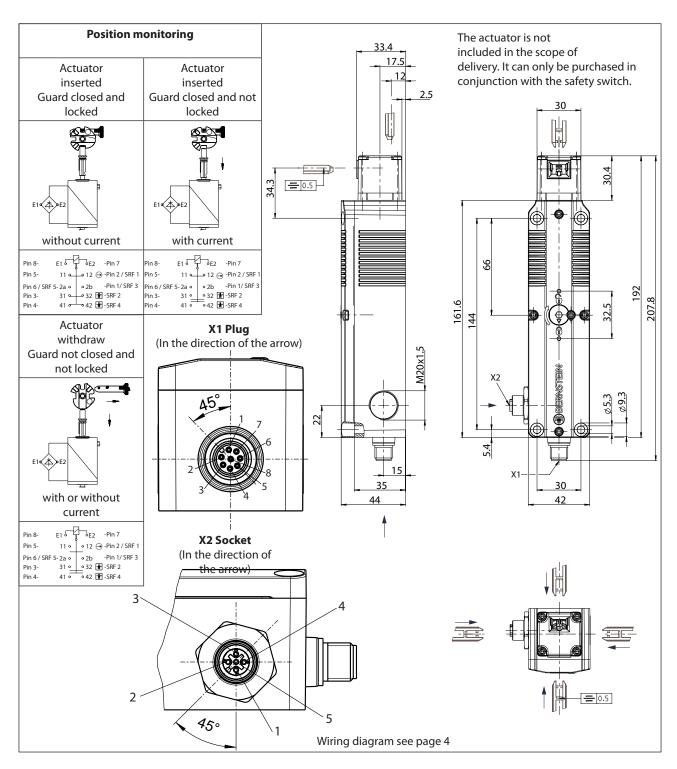


## Safety switch

Series SLC

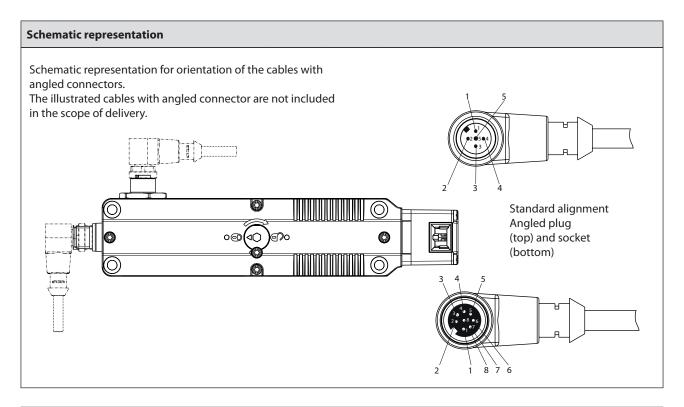
Description SLC-F-024-10/20-R4-11

Article number 6018200037



**BERNSTEIN AG** . Hans-Bernstein-Straße 1 . 32457 Porta Westfalica . www.bernstein.eu





Electrical data		
Protection class		II, totally insulated
Contact elements		
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 <sub>e</sub> / I <sub>e</sub> 24 V / 1,5 A
Utilization category acc. to UL / CSA		30 V / 2 A general use
Performance at min. current		1mA, at 24V DC, U <sub>KD</sub> 2,4V DC
Direct opening action	$\Theta$	according to IEC/EN 60947-5-1, Annex K
Short-circuit protective device		2 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 %)

## **Technical Data**



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	$V_{\text{max}}$	0,5 <sup>m</sup> / <sub>s</sub>
Extraction force		≤ 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: 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 Plug connector, M12-female plug, 5-pin, A-coded
Cable entrance		1 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

ID for safety engineering	
B10d	2 x 10 6 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	

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

Approvals	
	DGUV
	cCSA <sub>US</sub>

## **Technical Data**



## Notes

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.

The connector and the cable (fix or flexible mounted) must at least be suitable for the described ambient air temperatures.

The connector must not be connected or disconnected when voltage is applied.

The mechanical life of the connector is 100 connection cycles.

Suitable connector and cable must be used to meet approval requirements.

The switch may not be used as a mechanical stop.

When power is removed from the electromagnet (solenoid) the safety guard will be in locked position.

The M12 plug and the M12 socket cannot be dismantled.

With its internal wiring, the SLC solenoid interlock presented here is prepared to map a highly coded position monitoring of the protective device in accordance with EN ISO 14119 together with an RFID sensor (Bernstein SRF-2...-H).

