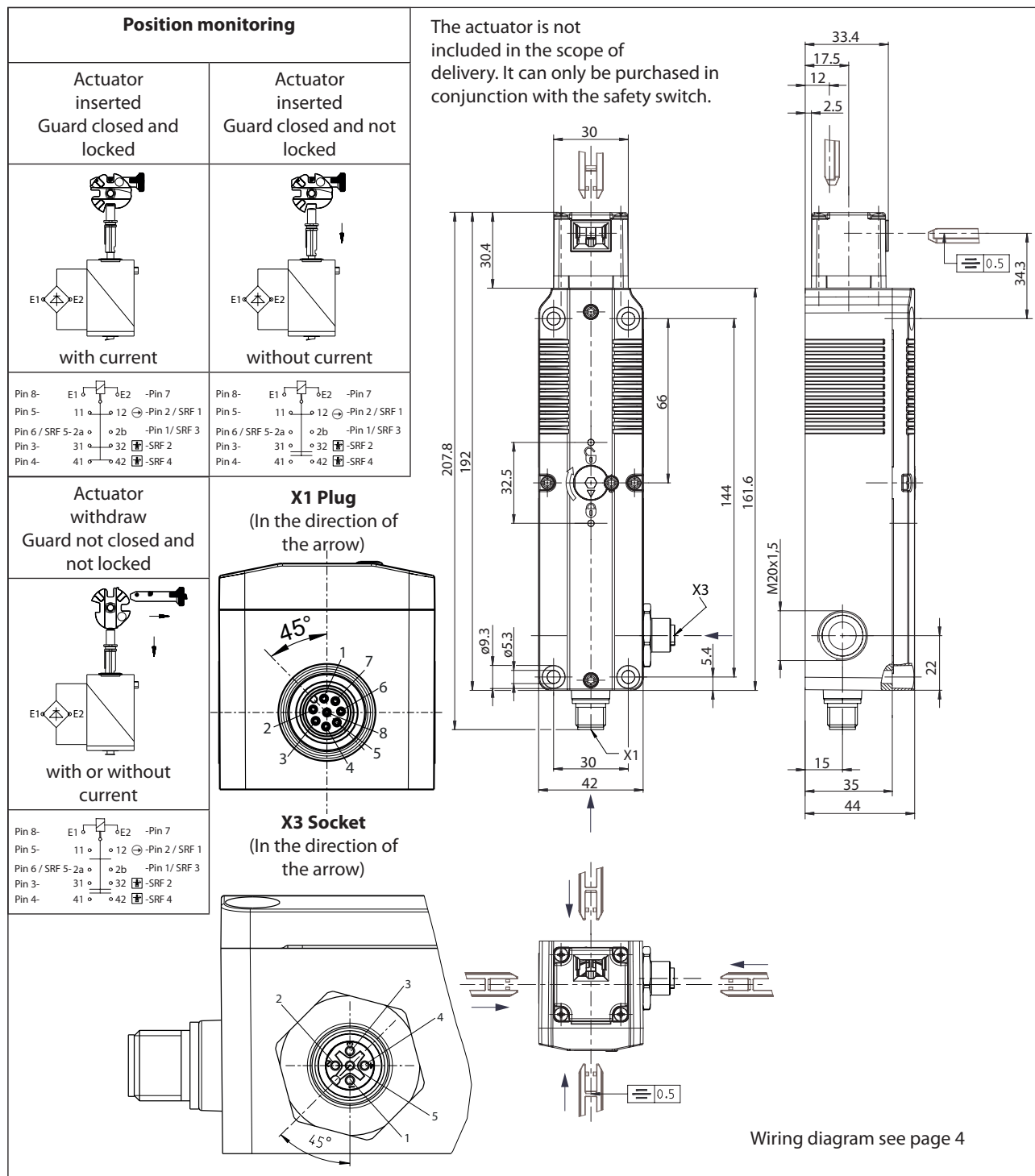


## Safety switch Series SLC

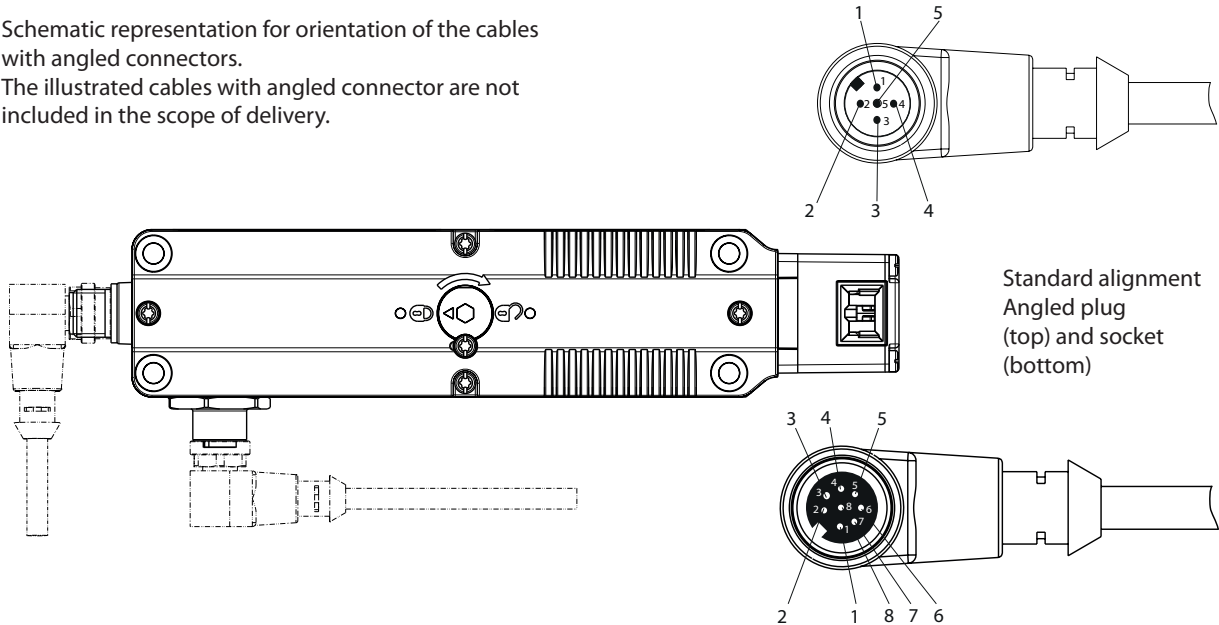
Description **SLC-M-024-10/20-R4-11**

Article number **6018200047**



## Schematic representation

Schematic representation for orientation of the cables with angled connectors.  
The illustrated cables with angled connector are not included in the scope of delivery.



## Electrical data

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	1mA, 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 %)	

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		≤ 10 N
Interlocking principle		Magnetic force
Unlocking		Spring force
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 <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

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.  
 In the event of a power failure, the guard does not remains locked.

**With its internal wiring, the SLC solenoid interlock presented here is not 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 ).**

## Wiring diagram

