

Technical Data

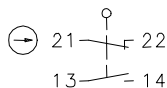
Safety switch

Series SLM – with separate actuator

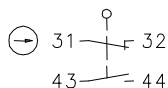
Description **SLM-FVTW120AC-55-AR**

Article number **6017119032**

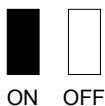
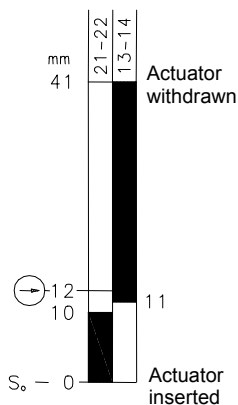
Position monitoring
of guard locking



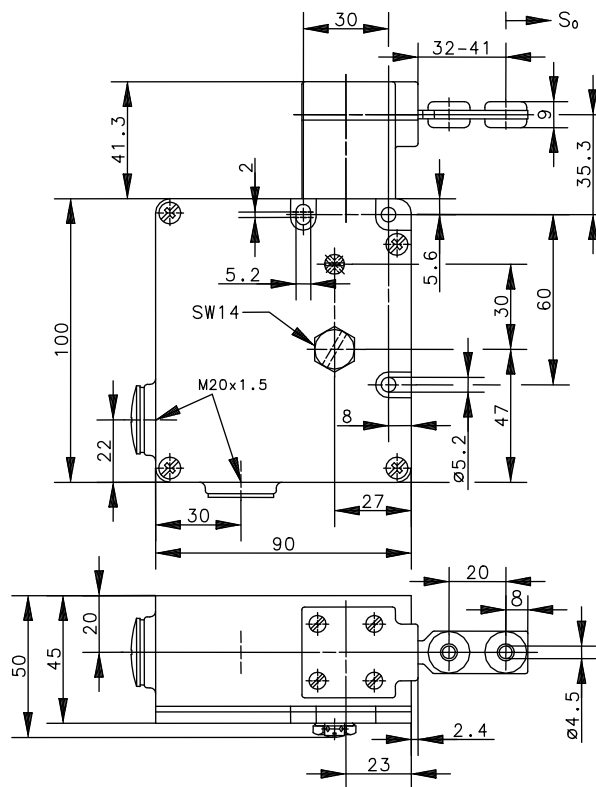
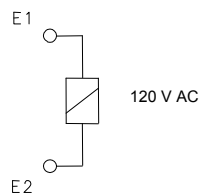
Position monitoring
of electromagnet



Operating diagram



Termination
electromagnet



Electrical data

Protection class	I	
Contact elements		
Rated insulation voltage	U_i	250 V
Rated impulse withstand voltage	U_{imp}	2,5 kV
Conv. thermal current	I_{the}	5A
Utilization category	AC-12, U_e/I_e 250 V / 10 A AC-15, U_e/I_e 230 V / 4 A	
Direct opening action	⊖	according to IEC/EN 60947-5-1, Annex K
Short-circuit protective device	10A gG	
Electro magnets		
Duty cycle	100 % ED (at E1; E2)	
Temperature class	B (130 °C)	
Power consumption P20	5,2 W	
Operating voltage	120 V AC	

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Technical Data

Safety switch



Mechanical data			
Enclosure			AI-GD
Cover			AL-sheet
Actuating head			Zn-GD
Actuator			Separate actuator (St / PA)
	Minimum actuating radius	R_{min}	400 mm
	Velocity for actuating	V_{max}	1,5 m/s
	Extraction force		$\geq 30 \text{ N} \pm 15\%$
Interlocking principle			Spring force
Unlocking			a) Magnetic force b) Auxiliary release
Hold on force		F_{Zh}	$\leq 1000 \text{ N}$ acc. to GS-ET-19
Ambient air temperature			-30 °C ... +60 °C
Contact type			2 NC, 2 NO
Switching principle			4 slow make and break contact elements
Mechanical life			1 x 10 ⁶ switching cycles (at ≤ 10 switching cycles / min)
Assembly			3 x M5
Connection			10 Screws M3,5; 2 non-fused earthed conductor M4 0,8 Nm \leq torque \leq 1,2 Nm
Conductor cross-sections	solid		0,5 - 2,5 mm ²
	finely stranded with ferrules		0,5 - 1,5 mm ²
Cable entrance			2 x M20x1,5
Weight			$\approx 0,83 \text{ kg}$
Installation position			Operator definable
Protection type			IP67 acc. to IEC/EN 60529

Actuation

4 different actuating directions achievable by rotating the actuating head.
Turning the actuator head (4 x 90 °) only when the actuator is plugged in.

ID for safety engineering

B10d 2 x 10⁶ switching cycles

Standards

VDE 0660 T100, DIN EN 60947-1, IEC 60947-1
VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1
GS-ET-19
DIN EN ISO 13849-1

EU Conformity

acc. to directive 2006/42/EG

Approvals

DGUV
cCSA_{US} B300, R300 (same polarity)
UL

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.

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

Remove hexagonal screw plug and push internal resin plunger in order to activate auxiliary release function.

Pre-travel actuator (compensation of shock and vibrations) approx. 9 mm.

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