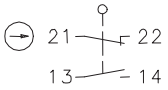
Safety switch

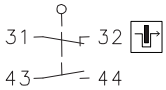
Series SLK – with separate actuator

Description **SLM-FVTW230AC-55ARRX90** Article number **6117119007**

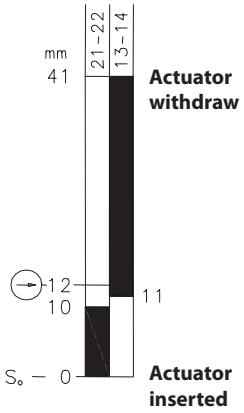
Position monitoring of guard locking



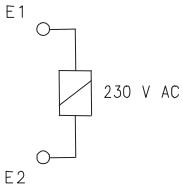
Position monitoring of electromagnet

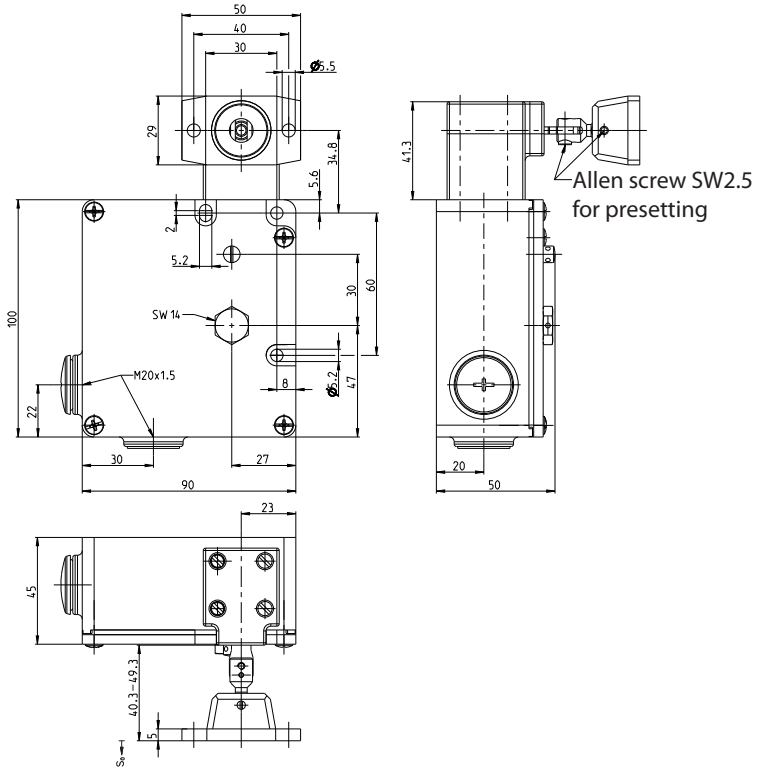


Operating diagram



Termination electromagnet





On Off

Tolerances:
Actuating force: ± 15 %

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}	5 A
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		10 A gG
Electro magnets		
Duty cycle		100 % ED (at E1; E2)
Temperature class		B (130 °C)
Power consumption P20		5,2 W
Operating voltage		230 V AC

Mechanical data		
Enclosure		Al-GD
Cover		Al-sheet
Actuating head		Zn-GD
Actuator		Separate actuator (Steel / PA)
Minimum actuating radius	R_{min}	400 mm
Velocity for actuating	V_{max}	1,5 $^{m}/_{s}$
Extraction force		≥ 30 N
Interlocking principle		Spring force
Unlocking		Auxiliary release
Hold on force	F_{Zh}	≤ 1350 N acc. to DIN EN ISO 14119
Ambient air temperature		-30 ° C ... +80 ° C
Contact type		2 NC, 2 NO
Switching principle		4 slow make and break contact elements
Mechanical life		1 x 10^6 switching cycles
Assembly		3 x M5
Connection		10 Screws M3,5; 2 non-fused earthed conductor M4
Conductor cross-sections		0,5 ... 2,5 mm^2 (solid) 0,5 ... 1,5 mm^2 (finely stranded with ferrules)
Cable entrance		2 x M20 x 1,5
Weight		≈ 0,93 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 10^6 cycles

Standards	
	VDE 0660 T100, DIN EN 60947-1, IEC 60947-1
	VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1
	DIN EN ISO 14119
	DIN EN ISO 13849-1

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

Approvals	
	$_{c}CSA_{US}$ 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.