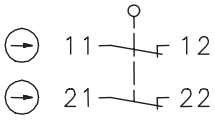
Safety switch

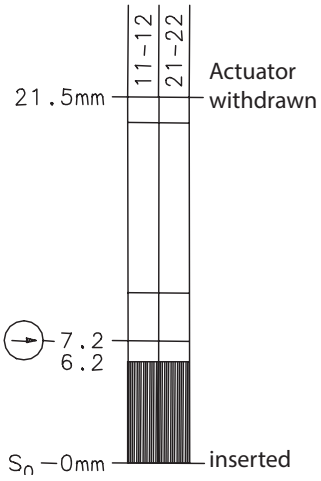
Series SK- with separate actuator

Description **SK-A2Z M**	Article number **6016169036**

Operating symbol

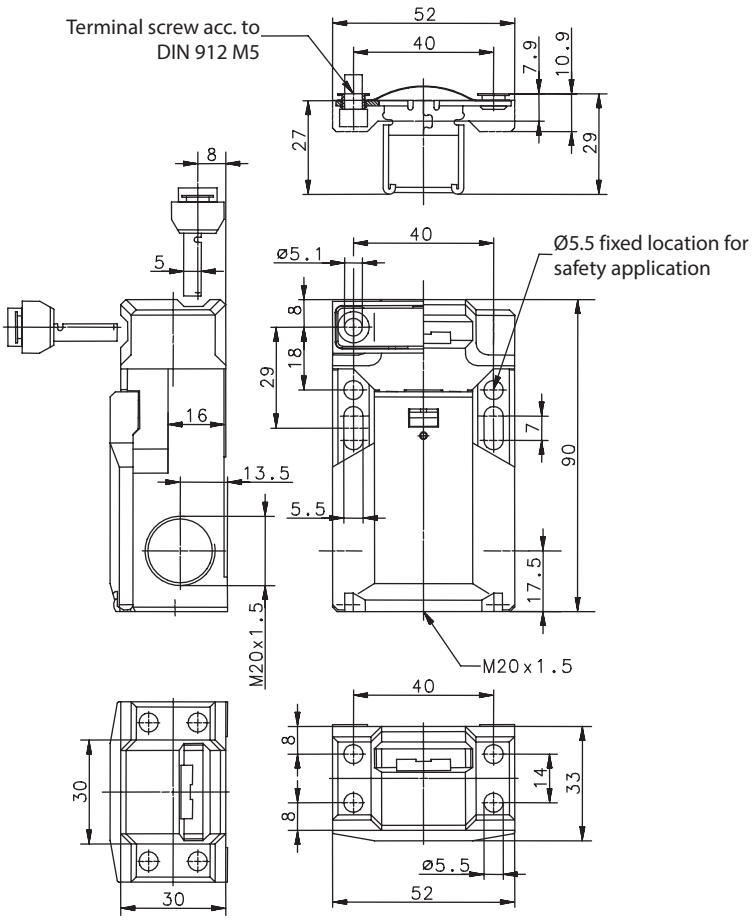


Operating diagram



On Off

Tolerance:
Operating Point ± 0,25 mm;
Operating force ± 10 %



Electrical Data		
Rated insulation voltage	U_i	250 V AC
Conv. thermal current	I_{the}	10 A
Utilization category		AC-15, U_e /I_e 240 V / 3 A DC-13, U_e /I_e 24 V / 4 A
Direct opening action	⊖	according to IEC/EN 60947-5-1, Annex K
Short-circuit protective device		Fuse 6 A gG
Protection class		II, totally insulated
Electrical life (90%)		2,1 x 10^5 switching cycles (at DC-13; 24V; Ie2 = 1.0A at frequency 60/min)

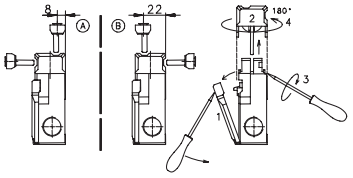
Technical modifications and errors excepted.
The technical datasheet corresponds to the technical state as of 2022-05-03 and will not be removed in case of changes.

Mechanical data		
Enclosure		Thermoplastic, glass fibre reinforced (UL94-V0)
Cover		Thermoplastic, glass fibre reinforced (UL94-V0)
Actuator		Separate actuator (St-stainless steel)
Extraction force		10 N
Ambient air temperature		-30 °C … +80 °C
Contact type		2 NC (Zb)
Mechanical life		1 x 10^6 switching cycles
Switching frequency		≤ 30 / min.
Assembly	Safety switch Actuator	2 x M5 2 x M5
Connection		4 screw connections (M3,5)
Conductor cross-sections		Solid: 0,5 ... 1,5 mm^2 Litz wire with ferrules: 0,5 ... 1,5 mm^2
Cable entrance		3 x M20 x 1,5
Weight		≈ 0,13 kg
Installation position		operator definable
Protection type		IP65 acc. to IEC/EN 60529

Characteristics for functional safety	
$B10_d$ - NC contact	2 x 10^6 switching cycles (at DC-13; 24 V; I_{e2} = 0,1 A)
$B10_d$ - NC contact	7,8 x 10^5 switching cycles (at DC-13; 24 V; Ie2 = 1,0 A at frequency 60/min)
$B10_d$ - NO contact	0,5 x 10^6 switching cycles (at DC-13; 24 V; I_{e2} = 0,1 A)

Actuation

Turning the cap (pos A/B) allows 4 different directions of drive.
Cover (1) has to be opened before turning the cap (2).
Insert the screwdriver into the gap between housing and cap and turn until the cap snaps off.
Remove the cap, turn it 180° (4), latch it into the housing and close the cover.



Standards
DIN EN 60947-5-1
DIN EN ISO 13849-1
DIN EN ISO 14119-1

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

Approvals
TÜV Rheinland, Product Safety
$_cCSA_{US}$ A300 (same polarity)
CCC

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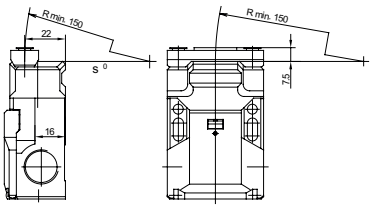
Notes

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.
Radial actuation may reduce the mechanical life.
The min. radius refers to a pivot at the top of the cap (S_0).
Tapped holes not in use must be closed with blind plugs.