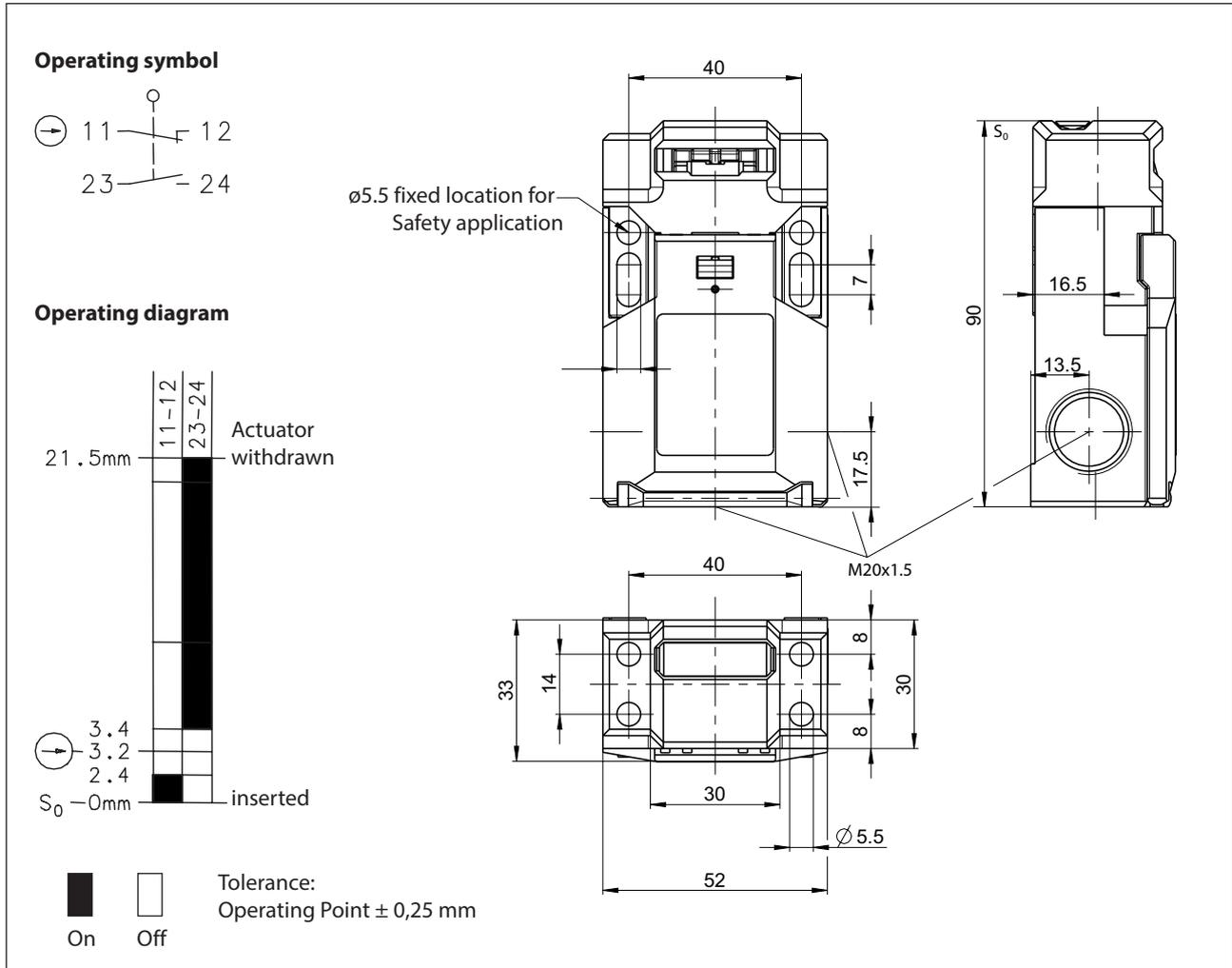


# Safety switch Series SK

Description **SK-U1Z**

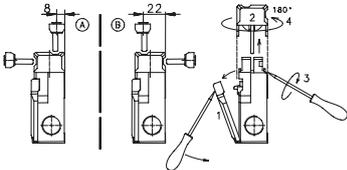
Article number **6016119181**



Electrical Data		
Rated insulation voltage	U <sub>i</sub>	250 V AC
Conv. thermal current	I <sub>the</sub>	10 A
Utilization category		AC-15, U <sub>e</sub> /I <sub>e</sub> 240 V / 3 A DC-13, U <sub>e</sub> /I <sub>e</sub> 24 V / 4 A
Direct opening action	⊖	according to IEC/EN 60947-5-1, Annex K
Short-circuit protective device		Fuse 10 A gG
Protection class	□	II
Electrical life (90%)		8,0 x 10 <sup>5</sup> switching cycles (at DC-13; 24 V; I <sub>e2</sub> = 1.0 A at frequency 60/min)

Mechanical data	
Enclosure	Polyamid PA6 GF FR (UL94-V0)
Cover	Polyamid PA66/6 GF FR (UL94-V0)
Extraction force	10 N
Ambient air temperature	-30 °C ... +80 °C
Contact type	1 NC, 1 NO (Zb)
Mechanical life	1 x 10 <sup>6</sup> switching cycles
Switching frequency	≤ 30 / min.
Assembly	2 x M5
Connection	4 screw connections (M3,5)
Conductor cross-sections	0,5 ... 1,5 mm <sup>2</sup> (solid or stranded wire with ferrules)
Cable entrance	3 x M20 x 1,5
Weight	≈ 0,12 kg
Installation position	operator definable
Protection type	IP65 acc. to IEC/EN 60529

Characteristics for functional safety	
B10 <sub>d</sub> - NC contact	2 x 10 <sup>6</sup> switching cycles (at DC-13; 24 V; I <sub>e2</sub> = 0,1 A)
B10 <sub>d</sub> - NC contact	1,9 x 10 <sup>6</sup> switching cycles (at DC-13; 24 V; I <sub>e2</sub> = 1,0 A at frequency 60/min)
B10 <sub>d</sub> - NO contact	0,5 x 10 <sup>6</sup> switching cycles (at DC-13; 24 V; I <sub>e2</sub> = 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

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

UK Conformity	
	Supply of Machinery (Safety) Regulations 2008, 2008 No. 1597

Approvals	
	TÜV Rheinland, Product Safety
	cCSA <sub>US</sub> A300 (same polarity)
	CCC

**Notes**

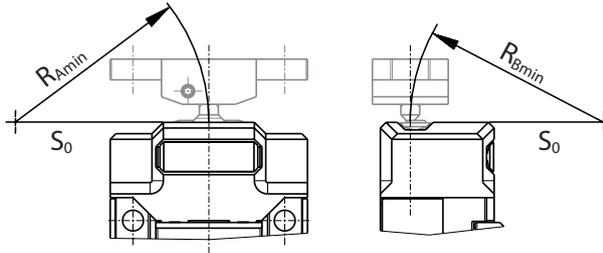
The specified degree of protection (IP code) of the safety switch only applies when the cover is closed and an at least equivalent cable gland with corresponding cable or corresponding cable coupling is used.

The arrangement and fastening of the safety switch and actuator must be carried out in accordance with DIN EN ISO 14119.

With radius actuation, the mechanical service life may be reduced.

The minimum radii can be found in the data sheet of the respective actuator or in the operating and mounting instructions of the switchgear and apply to a pivot point on the level of the upper edge of the enclosure  $S_0$ .

The actuator slot that is not used must be closed by the cover.



$R_{Amin}$  and  $R_{Bmin}$  depend on the actuator.

Applies accordingly also to lateral retraction directions.