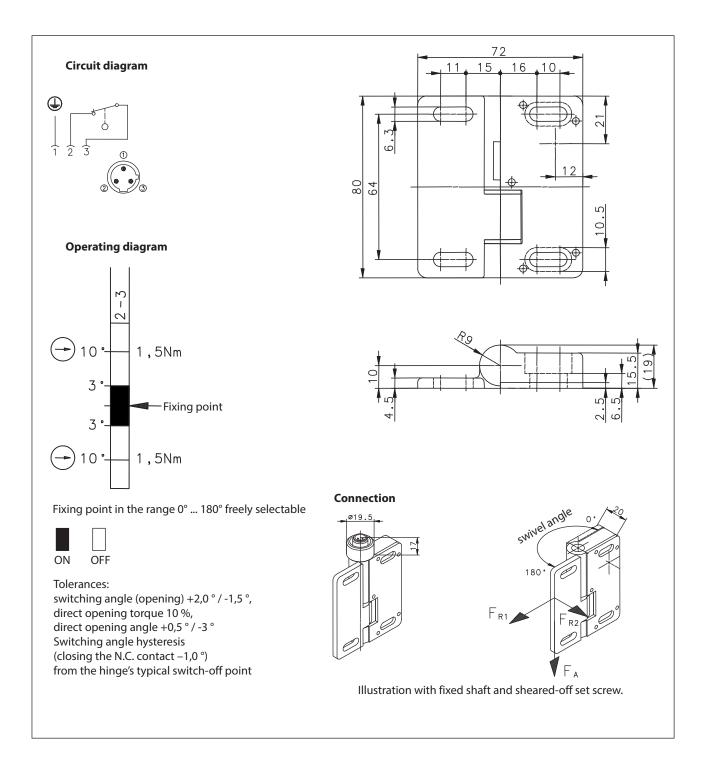


# Safety switch

Series Safety Hinge Switch SHS

### Description SHS-A1Z-SA-BG

Article number 6019261017



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# **Technical Data**



Electrical Data		
Rated insulation voltage	U	250 V
Rated impulse withstand voltage	U	2,5 kV
Conv. thermal current	l <sub>the</sub>	3 A
Rated operational voltage	Ue	230 V AC / 60 V DC
Utilization category		AC-15, 230 V AC / 1,5 A, DC-13, 60 V DC / 0,5 A
Direct opening action	$\ominus$	acc. to IEC/EN 60947-5-1, annex K
Short-circuit protective device		Fuse 4 A gG
Protection class		I

Mechanical data	
Enclosure	GD-Zn
Cover	GD-Zn
Wing	GD-Zn
Ambient air temperature	-25 °C to +70 °C
Contact type	1 NC
Mechanical life	1 x 10 <sup>6</sup> operating cycles
Switching frequency	max. 1200 switching operations / hour
Attachment	4 x M6 screws DIN 7984 or DIN 6912
Connection type	Plug M12x1, metal thread, with manipulation guard
Weight	$\approx 0.4 \text{ kg}$
Installation position	operator definable
Protection type	IP 67 in acc. with IEC/EN 60529
Switching angle	+/- 3 ° from fixing point
Direct opening angle	+/- 10 ° from fixing point
Direct opening torque	1,5 Nm
Mechanical load	F <sub>R1</sub> = max. 1000 N
(see dimensioned drawing for the introduction direction of the forces)	$F_{R2} = max. 500 N$
	F <sub>A</sub> = max. 750 N

ID for safety engineering		
B10d	2 x 10 <sup>6</sup> switching cycles	
Chan danda		

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 13849-1

### **EU Conformity**

acc. to directive 2006/42/EC

### Approvals

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DGUV	1
<sub>c</sub> CSA <sub>u</sub>	s C300
ССС	

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## **Technical Data**



#### Notes

The safety fixture must always be attached by at least two SHS! See max. load.

If the risk assessment of the machine permits a single-channel evaluation, an empty hinge can be used as the support element. If the SHS is used at an ambient temperature of 70 °C, it is possible that the connecting cable will age more rapidly!

The connecting cable must be protected against mechanical damage.

The cable can be installed in tubes or cable ducts.

The electrical connection for a SHS with DGUV inspection certificate is only permitted with

the following cable couplings (Bernstein range; cable length: 5 m):

3251103234 (with straight plug) or 3251103236 (with angled plug)

The manufacturer / supplier of the machine / system is obligated to observe the applicable standards for the size of the safety intervals between the separating safety fixture and the hazard point.

These regulations include: EN 294, EN 349, EN 953, EN 1088, ....

The switch may not be used as a stop.

The suggested protection type (IP code), applies only when at least an equivalent cable coupling is used.

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