

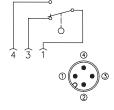
Safety switch

Series Safety Hinge Switch SHS

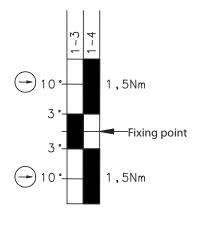
Description SHS-A1Z-SR

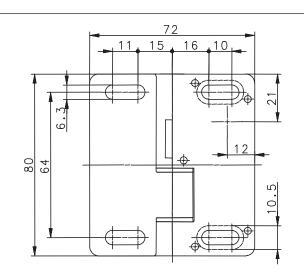
Article number 6019261010

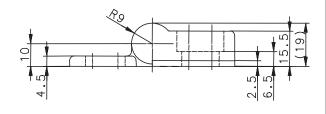
Circuit diagram



Operating diagram







Fixing point in the range 0° ... 225° freely selectable

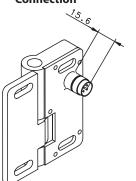


OFF ON

Tolerances:

switching angle (opening) +2,0 ° / -1,5 °, direct opening torque 10 %, direct opening angle +0,5 ° / -3 ° Switching angle hysteresis (closing the N.C. contact -1,0°) from the hinge's typical switch-off point





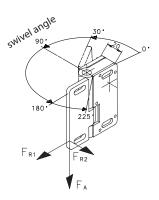


Illustration with fixed shaft and sheared-off set screw.

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Technical Data



Electrical Data		
Rated insulation voltage	U _i	250 V
Rated impulse withstand voltage	U_{imp}	2,5 kV
Conv. thermal current	l _{the}	3 A
Rated operational voltage	U _e	230 V AC / 60 V DC
Utilization category		DC-13, 60 V DC / 0,5 A
Direct opening action	Θ	acc. to IEC/EN 60947-5-1, annex K
Short-circuit protective device		Fuse 4 A gG
Protection class		SELV

Mechanical data	
Enclosure	GD-Zn
Cover	GD-Zn
Wing	GD-Zn
Ambient air temperature	-25 °C to +70 °C
Contact type	1 Change-over
Mechanical life	1 x 10 ⁶ operating cycles
Switching frequency	max. 1200 switching operations / hour
Attachment	4 x M6 screws DIN 7984 or DIN 6912
Connection type	plug M12 x1, plastic thread
Weight	≈ 0,4 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 _{R1} = max. 1000 N
(see dimensioned drawing for the introduction direction of the forces)	$F_{R2} = max. 500 N$
	$F_A = max. 750 N$

ID for safety engineering	
B10d	2 x 10 ⁶ cycles

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

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

Approvals	
_C CSA _{US}	C300
CCC	

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 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: DIN EN ISO 13857, DIN EN ISO 13854, DIN EN ISO 14120, DIN EN ISO 14119,

The switch may not be used as a stop.

For a CSA/UL application it is essential to use CSA/UL approved cable for connection.

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