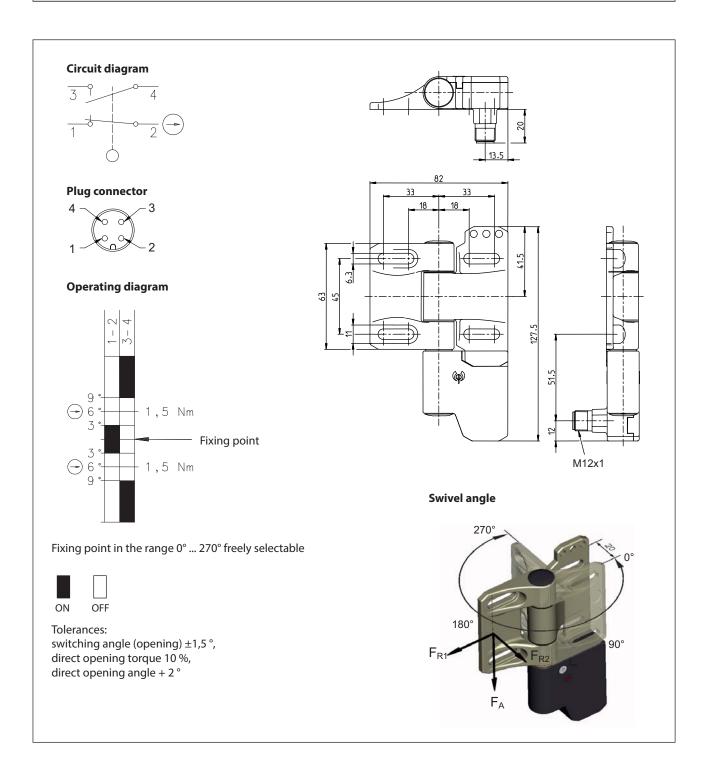


Safety switch

Series Safety Hinge Switch SHS3

Description SHS3-U1Z-SR-R

Article number 6019390045



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Technical Data



Electrical Data		
Rated insulation voltage	Ui	250 V
Rated impulse withstand voltage	U_{imp}	2,5 kV
Conv. thermal current	I_{the}	4 A
Rated operational voltage	U_{e}	230 V AC; 24 V DC
Utilization category		AC-15, Ue /le 230 V / 3 A; DC-13, Ue /le 24 V / 1 A
Direct opening action	\ominus	acc. to IEC/EN 60947-5-1, annex K
Short-circuit protective device		Fuse 4 A gG
Protection class		II (protective insulation)

Mechanical data	
Enclosure	PBT
Hinge	Cast stainless steel
Ambient air temperature	-25 °C to +70 °C (connecting cable permanently mounted; no freezing over / no condensation)
Contact type	Slow make and break contacts (1 N.C., 1 N.O.)
Mechanical life	1 x 10 ⁶ operating cycles (High forces, unfavourable force application as well as dynamic loads can shorten the service life.)
Switching frequency	max. 300 switching operations / hour
Attachment	4 x M6 screws DIN EN ISO 7984 (on flat and stiff ground)
Connection type	M12 plug connector / Ultra-Lock connector, A coded
Weight	≈ 0,45 kg
Installation position	operator definable
Protection type	IP 67 in acc. with IEC/EN 60529
Switching angle	+/- 3 ° from fixing point for the N.C. contacts and 9° for the N.O. contact
Forced disconnect angle	6°+2° from fixation point in both directions (for 0°-3° only in Plus-direction, for 267°-270° only in Minus-direction)
Forced disconnect torque	1,5 Nm
Mechanical load	F _{R1} = max. 1800 N
(see dimensioned drawing for the	$F_{R2} = max. 750 N$
introduction direction of the forces)	$F_{A} = max.$ 1800 N

ID for safety engineering		
B10d	2 x 10 ⁶ switching 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 13849-1	

EU Conformity

acc. to directive 2006/42/EC

Approvals	
DGUV	
CCC	
CCSAUS	B300

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The technical datasheet corresponds to the technical state as of 2016-01-22 and will not be removed in case of changes.

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. High forces, unfavourable force application as well as dynamic loads can shorten the service life.

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 349, DIN EN 953, DIN EN ISO 14119, DIN EN ISO 13857,

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.

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