

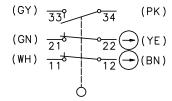
Safety switch

Series Safety Hinge Switch SHS3

Description SHS3-U15Z-SRR

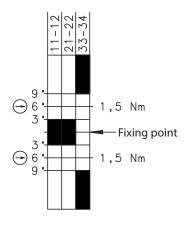
Article number 6019390036

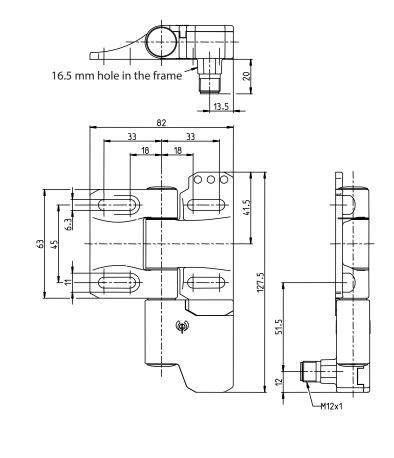
Operating symbol



The colour allocation refers to the plug-in-cables which we have in our range.

Operating diagram

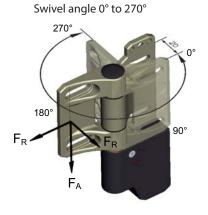




Point of fixation is in range of 0° ... 270° free selectable.



Tolerances: switching angle (opening) $\pm 1,5$ °, direct opening torque 10 %, direct opening angle +2°





	ith jiggle protectior				
Article number	Description	Cable length x	Article number	Description	Cable length x
325.1006.291	AN-KAB.SHS3	2 m straight	325.1006.294	AN-KAB.SHS3	2 m angled
325.1006.292	AN-KAB.SHS3	5 m straight	325.1006.295	AN-KAB.SHS3	5 m angled
325.1006.293	AN-KAB.SHS3	10 m straight	325.1006.296	AN-KAB.SHS3	10 m angled
Connector straight 10.3 10.3 10.3 10.3 10.3 10.3			Connector angled 50 M12x1 P1 4014.5		

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

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 2 N.C., 1 N.O.
Mechanical life	1 x 10 ⁶ operating cycles
Switching frequency	max. 300 switching operations / hour
Attachment	4 x M6 screws DIN EN ISO 7984 (on flat and stiff ground)
Wiring	6-pin connector M12x1 (Dual-Key-Way) Equivalent connecting cable available as accessory
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 (see dimensioned drawing for the introduction direction of the forces)	F_{R1} = max. 1800 N F_{R2} = max. 750 N F_A = max. 1800 N

ID for safety engineering	
B10d	2 x 10 ⁶ cycles

Technical Data



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	
cCSA _{US}	B300

Notes

The safety guard shall always be mounted using two SHS3 at least! See max. load. If the risk assessment of the machine permits a single-channel monitoring a blank hinge can used as bearing element.

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

In case that the SHS3 is used at an ambient temperature of 70° an accelerated ageing of the connecting cable can occur.

The connecting cable shall be protected against mechanical damages.

The installation of the connecting cable can be done via pipes or cable ducts.

The manufacturer / supplier of the machine / equipment is obliged to take the applicable standards for the calculation of the safety distances of separating safety guards to hazardous areas into account.

Especially these standards apply: DIN EN 349, DIN EN 953, DIN EN ISO 14119, DIN EN ISO 13857,

The switch shall not be used as a mechanical stop.