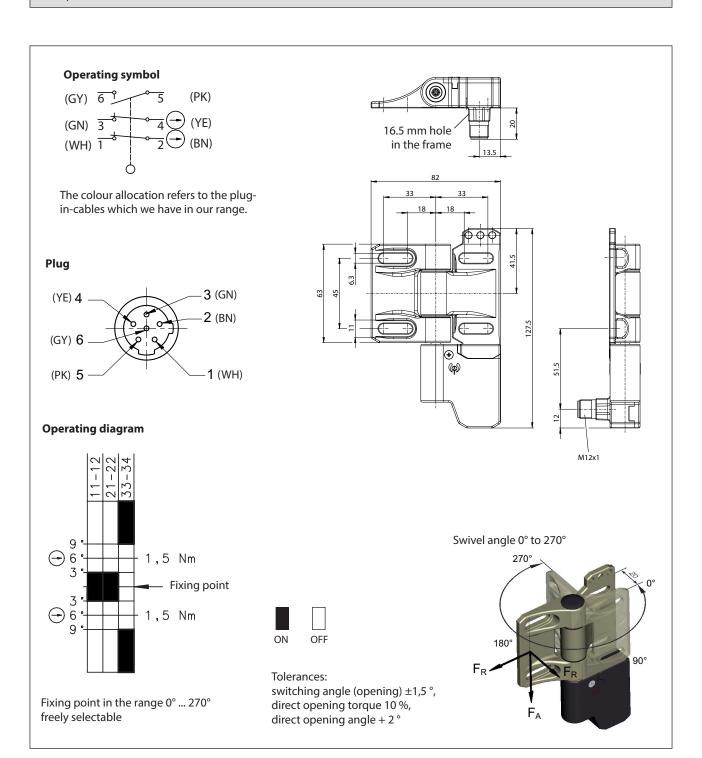


Safety switch

Series Safety Hinge Switch SHS3Z

Description SHS3Z-U15Z-SR-R

Article number 6019490056





onnoctor M12v1 with iid	gle protection and molded cable		
Article number	Description	cable length x	Version
3251006291	AN-KAB.SHS3 2M GERADE	2 m	straight
3251006292	AN-KAB.SHS3 5M GERADE	5 m	straight
3251006293	AN-KAB.SHS3 10M GERADE	10 m	straight
3251006294	AN-KAB.SHS3 2M WINKEL	2 m	angled
3251006295	AN-KAB.SHS3 5M WINKEL	5 m	angled
3251006296	AN-KAB.SHS3 10M WINKEL	10 m	angled
Connector straight		Connector angled	
10.3 44.5 x		31 80 M12x1 014.5	

Electrical Data		
Rated insulation voltage	Ui	250 V
Conv. thermal current	I_{the}	4 A
Rated operational voltage	$U_{\rm e}$	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	zinc die cast / nickel matt
Ambient air temperature	-25 $^{\circ}$ C to +70 $^{\circ}$ 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)
Connection type	6-pin connector M12x1 (Dual-Key-Way) Equivalent connecting cable available as accessory
Weight	≈ 0,4 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)	$F_{R1} = \text{max.} \ 1200 \text{ N}$ $F_{R2} = \text{max.} \ 500 \text{ N}$ $F_{A} = \text{max.} \ 1200 \text{ N}$

Technical Data



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 (Machinery Directive)	

Approvals	
	DGUV
	CCC
	cCSA _{US} B300

Notes

The safety guard shall always be mounted using two SHS3Z 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 SHS3Z 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.