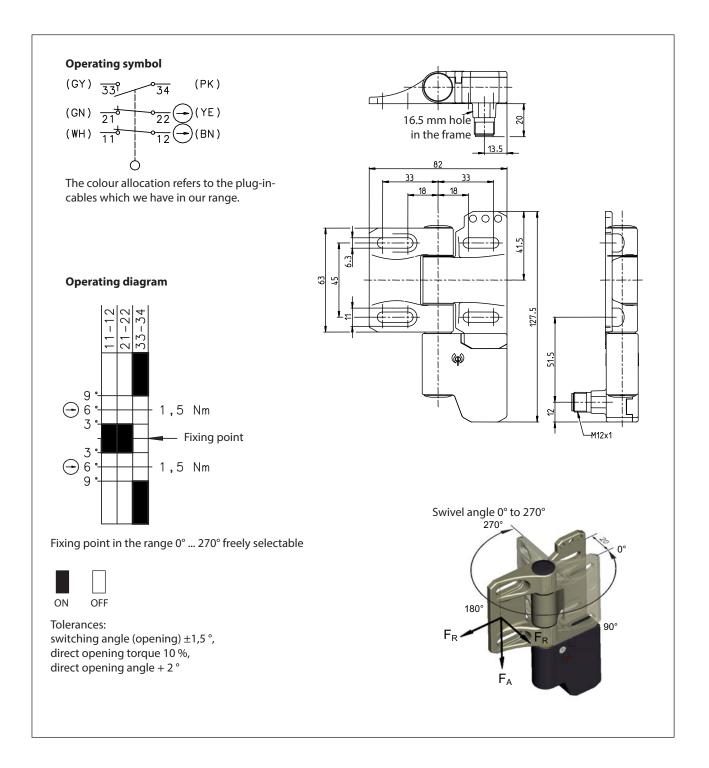


### Safety switch

Series Safety Hinge Switch SHS3Z

#### Description SHS3Z-U15Z-SR-R

Article number 6019490056



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## **Technical Data**

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Connector M12x1 with jiggle 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					

Electrical Data		
Rated insulation voltage	Ui	250 V
Conv. thermal current	$I_{\text{the}}$	4 A
Rated operational voltage	$U_{e}$	230 V AC; 24 V DC
Utilization category		AC-15, U <sub>e</sub> /I <sub>e</sub> 230 V / 3 A; DC-13, U <sub>e</sub> /I <sub>e</sub> 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 (totally insulated)

Mechanical data	
Enclosure	PBT
Hinge	zinc die cast / nickel matt
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 <sup>6</sup> 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	$\approx$ 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)	$F_{R1} = max. 1200 N$ $F_{R2} = max. 500 N$ $F_{A} = max. 1200 N$

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#### **Technical Data**



ID for safety engineering	
B10d	2 x 10 <sup>6</sup> 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
	ССС
	<sub>c</sub> CSA <sub>us</sub> B300
Notes	
The safety guard shall always be mo	ounted 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.