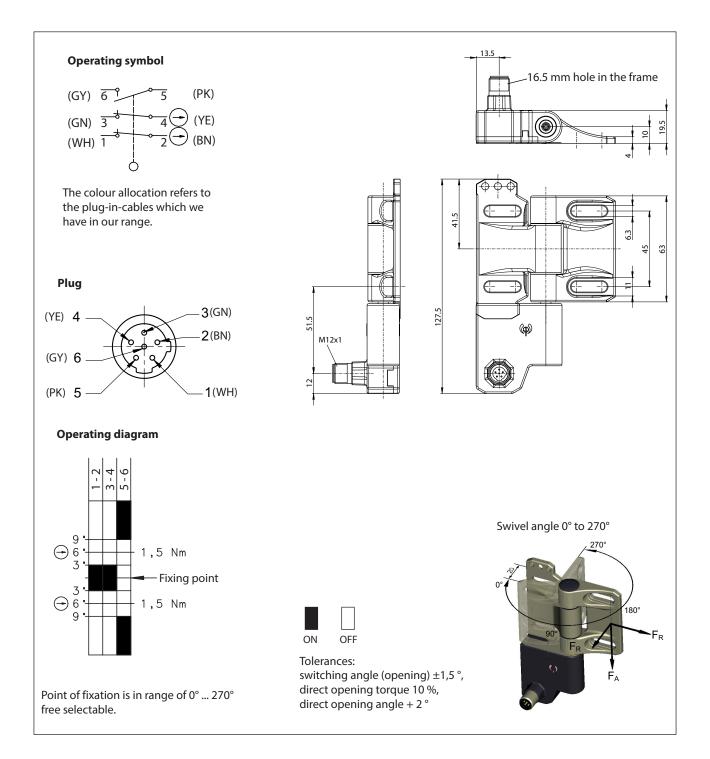


Safety switch

Series Safety Hinge Switch SHS3

Description SHS3-U15Z-SRL

Article number 6019390037



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Technical Data

Connector M12x1 with jiggle protection and molded cable							
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		Connector angled					
			10.3 + 29.2	M12x1 w14.5 x			

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	Θ	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	РВТ			
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	

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The technical datasheet corresponds to the technical state as of 2023-03-16 and will not be removed in case of changes.



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 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.

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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.