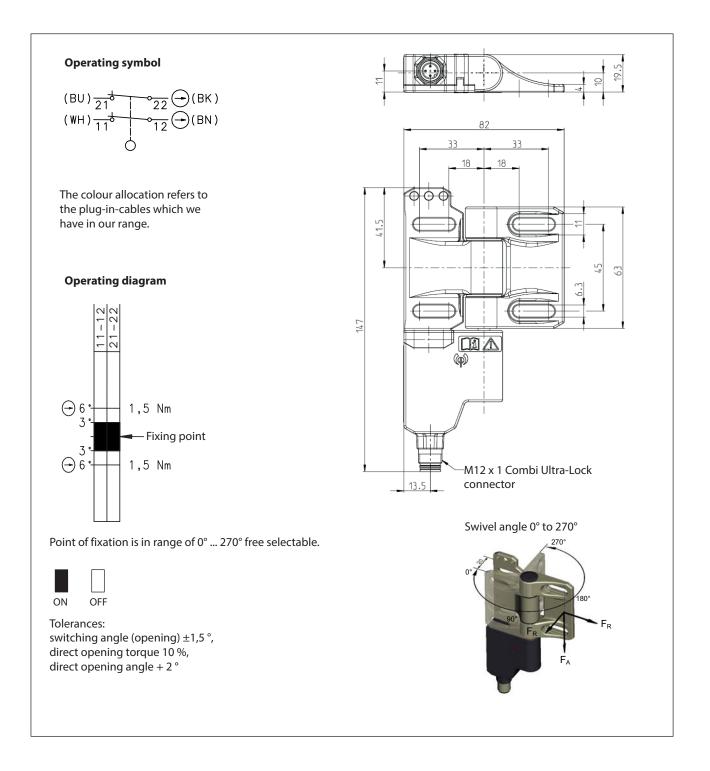


Safety switch

Series Safety Hinge Switch SHS3

Description SHS3-A2Z-SA L

Article number 6019390041



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Technical Data



4-pin connector (A-coded) M12x1 with jiggle protection and molded cable					
Article number	Description	Cable length x	Article number	Description	Cable length x
3251004310	AN-KAB.SHS3 4P	2 m straight	3251004313	AN-KAB.SHS3 4P	2 m angled
3251004311	AN-KAB.SHS3 4P	5 m straight	3251004314	AN-KAB.SHS3 4P	5 m angled
3251004312	AN-KAB.SHS3 4P	10 m straight	3251004315	AN-KAB.SHS3 4P	10 m angled
Connector straight Connector angled					
				M12x1	b

4-pin connector (A-coded) M12x1 with Ultra Lock quick-connect terminal and moulded cable					
Article number	Description	Cable length x	Article number	Description	Cable length x
3251004316	AN-KAB.SHS3 4P U.L	2 m straight	3251004319	AN-KAB.SHS3 4P U.L	2 m angled
3251004317	AN-KAB.SHS3 4P U.L	5 m straight	3251004320	AN-KAB.SHS3 4P U.L	5 m angled
3251004318	AN-KAB.SHS3 4P U.L	10 m straight	3251004321	AN-KAB.SHS3 4P U.L	10 m angled
Connector straight		10.3 <mark>29.2</mark>	Connector angled	-	

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	\ominus	acc. to IEC/EN 60947-5-1, annex K
Short-circuit protective device		Fuse 4 A gG
Protection class		II (totally insulated)

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Technical Data



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.
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	4-pin connector M12x1 or Ultra-Lock connector 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.
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

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	Standards	
		VDE 0660 T100, DIN EN 60947-1, IEC 60947-1
DIN EN ISO 13849-1		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	
CCSA _{US}	B300

Technical Data



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.

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