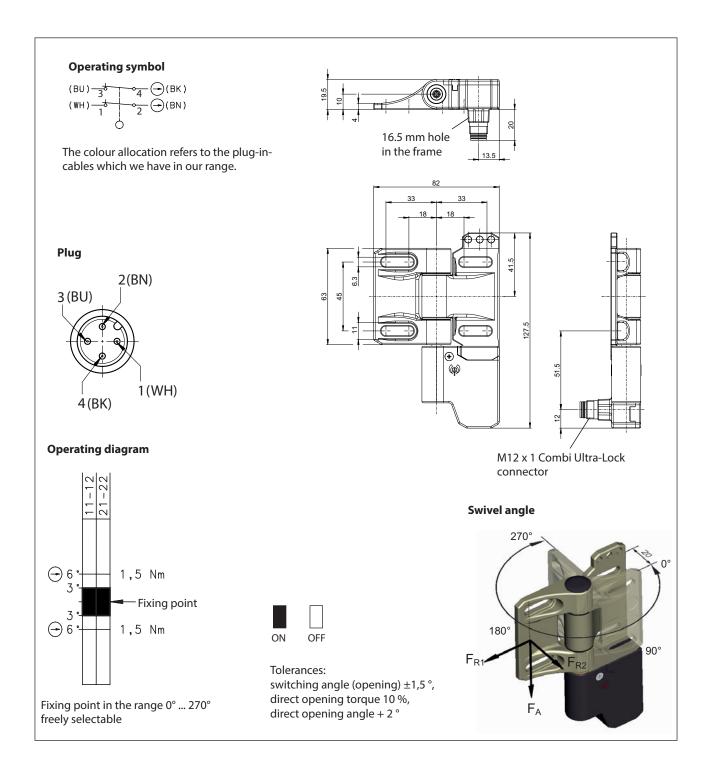


Safety switch

Series Safety Hinge Switch SHS3Z

Description SHS3Z-A2Z-SR-R

Article number 6019490062



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Technical modifications and errors excepted.

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4-pin connector (A-coded) M12x1 with jiggle protection and mo	olded cable	
Article number	Description	cable length x	Version
3251004310	AN-KAB.SHS3 4P 2M GERADE	2 m	straight
3251004311	AN-KAB.SHS3 4P 5M GERADE	5 m	straight
3251004312	AN-KAB.SHS3 4P 10M GERADE	10 m	straight
3251004313	AN-KAB.SHS3 4P 2M WINKEL	2 m	angled
3251004314	AN-KAB.SHS3 4P 5M WINKEL	5 m	angled
3251004315	AN-KAB.SHS3 4P 10M WINKEL	10 m	angled
Conr 1 1 1 1 1 1 1 1 1 1 1 1 1	ector straight	Connec 31 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

4-pin connector (A-coc	led) M12x1 with Ultra Lock quick-connect	terminal and moulded ca	ble
Article number	Description	cable length x	Version
3251004316	AN-KAB.SHS3 4P U.L. 2M GERADE	2 m	straight
3251004317	AN-KAB.SHS3 4P U.L. 5M GERADE	5 m	straight
3251004318	AN-KAB.SHS3 4P U.L. 10M GERADE	10 m	straight
3251004319	AN-KAB.SHS3 4P U.L. 2M WINKEL	2 m	angled
3251004320	AN-KAB.SHS3 4P U.L. 5M WINKEL	5 m	angled
3251004321	AN-KAB.SHS3 4P U.L. 10M WINKEL	10 m	angled
) 2 2 1 2 2	Connector straight	Connec	tor angled
	0.3 .5 .5 x x	N M12×1 0 0 0 0 0 0 0 0 0 0 0 0 0	50 ×

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 (protective insulation)

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Technical Data



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.
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	4-pin connector M12x1 or Ultra-Lock connection Equivalent connecting cable available as accessory
Weight	$\approx 0,4 \text{ kg}$
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
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)	$F_{R1} = max. 1200 N$ $F_{R2} = max. 500 N$ $F_{A} = max. 1200 N$

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	
_c CSA _{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.

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