Technical Data

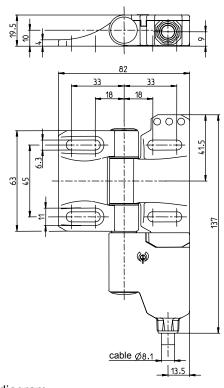
Safety switch

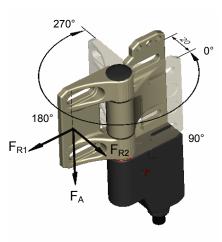
BERNSTEIN

Series SHS3

SHS3-U15Z-KA 5 R Description

6019390022 Article number

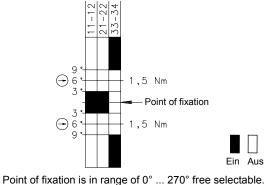


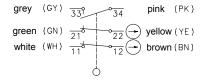


swivel range: 0° bis 270°

Operating diagram

Switching symbol





Tolerances Forced disconnect torque 10% Tolerances Forced disconnect angle + / -1,5°

The data refer to a SHS3 with fixed switching point

Electrical Data		
Rated isolation voltage	Ui	250V
Conventional thermal current	I _{the}	5A
Rated supply voltage	U _e	230V AC; 24V DC
Utilization category	Ü	AC-15, U _e /I _e 230V/3A; DC-13, U _e /I _e 24V/1A
Direct opening action	Θ	acc. IEC/EN 60947-5-1, annex K
Short circuit protection		melting fuse 4A gL/gG
Protection class		II, protective insulation

Tolerances Switching angle (N.C.) + / -1,5°

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Technical DataSafety switch



Mechanical Data	
Switch	PBT
Hinge	G-X22CrNi17
Ambient temperature	-25°C to +70°C (connecting cable permanently
	mounted)
Contact function	Slow make and break contacts
	2 N.C., 1 N.O.
Mechanical life	10 ⁶ operations
Switching frequency	Max. 300 operations/h
Mounting	4 x M6 screws DIN EN ISO 7984
	On flat and stiff ground
Wiring	Fixed connecting cable 6 x 0,75 mm ² x 5 m
	Bending radius = 60 mm min.
Weight	≈ 0,65 kg
Mounting position	Any
Protection class	IP 67 acc. IEC/EN 60529
Switching angle	+/- 3° from fixation 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	F _{R1} = max. 1200 N
(for direction of loaded forces see the illustration below)	·
	$F_A = max. 1200 N$

	VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1
EU-Conformity	CE .

VDE 0660 T100, DIN EN 60947-1, IEC 60947-1

Approvals BG, _CCSA_{US} B300

Notes

Standards

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.

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: EN 294, EN 349, EN 953, EN 1088,

The switch shall not be used as a mechanical stop.

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