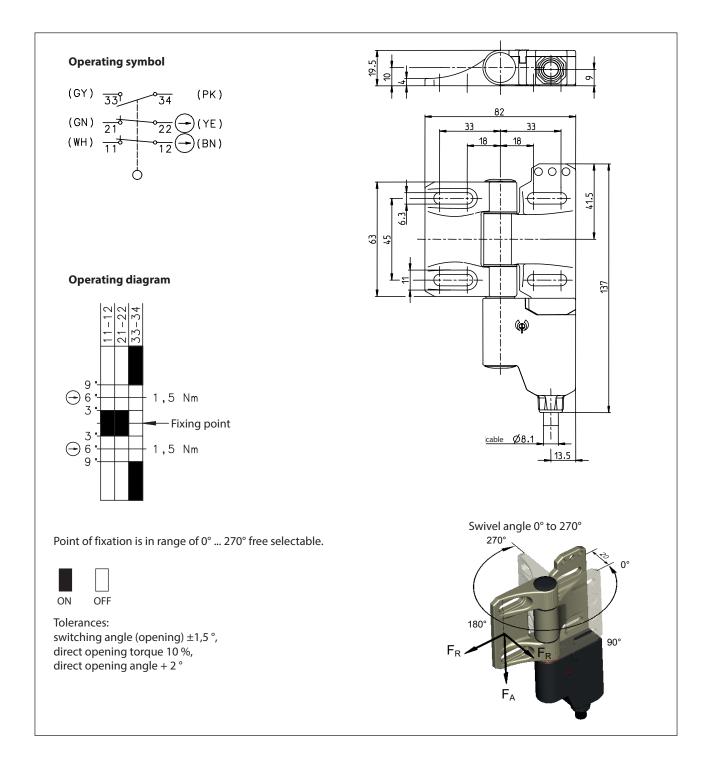


# Safety switch

Series Safety Hinge Switch SHS3

### Description SHS3-U15Z-KA7-R

Article number 6119390025



BERNSTEIN AG . Hans-Bernstein-Straße 1.32457 Porta Westfalica . www.bernstein.eu

## **Technical Data**



Electrical Data		
Rated insulation voltage	Ui	250 V
Conv. thermal current	I <sub>the</sub>	5 A
Rated operational voltage	Ue	230 V AC; 24 V DC
Utilization category		AC-15, Ue /Ie 230 V / 3 A; DC-13, Ue /Ie 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		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 <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)
Wiring		Fixed connecting cable; PVC, black 6 x 0,75 mm <sup>2</sup> x 7 m

Bending radius = 60 mm min.

IP 67 in acc. with IEC/EN 60529

6°+2° from fixation point in both directions

+/- 3 ° from fixing point for the N.C. contacts and 9° for the N.O. contact

(for 0°-3° only in Plus-direction, for 267°-270° only in Minus-direction)

≈ 0,65 kg

1,5 Nm

operator definable

ID for safety engineering		
B10d	2 x 10 <sup>6</sup> cycles	

F<sub>R1</sub>= max. 1800 N

F<sub>R2</sub>= max. 750 N

F<sub>A</sub> = max. 1800 N

Standards	
DIN EN 60947-5-1	
DIN EN ISO 13849-1	

#### **EU Conformity**

Weight

Installation position

Forced disconnect angle

Forced disconnect torque

(see dimensioned drawing for the

introduction direction of the forces)

Protection type

Switching angle

Mechanical load

acc. to directive 2006/42/EC (Machinery Directive)

Approvals	
DGUV	
CCC	
cCSA <sub>US</sub>	B300

BERNSTEIN AG . Hans-Bernstein-Straße 1 . 32457 Porta Westfalica . www.bernstein.eu

The technical datasheet corresponds to the technical state as of 2023-06-05 and will not be removed in case of changes.

### **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.