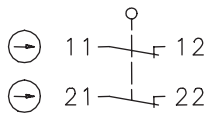


Safety switch Series SHS3 - ASI

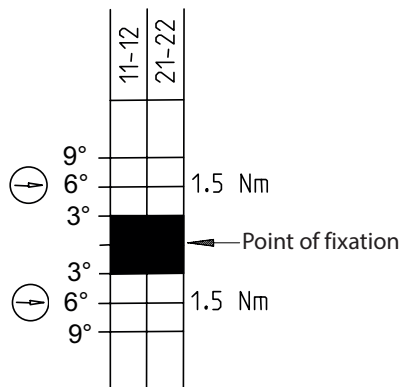
Description **ASI-SHS3-KA1-R-IPX**

Article number **6173200002**

Operating symbol



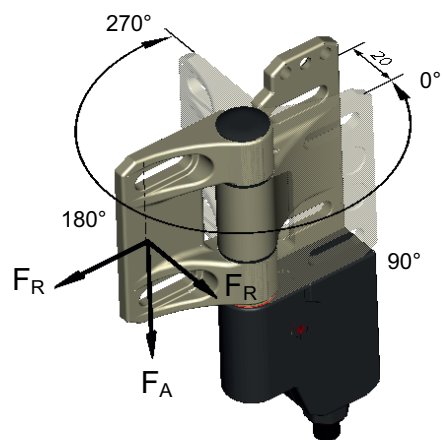
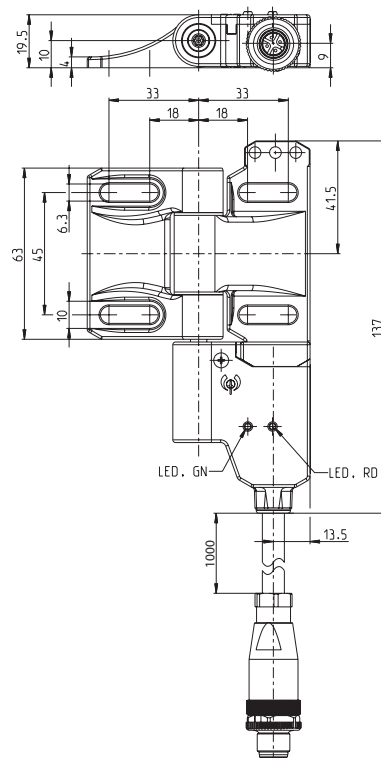
Operating diagram



Point of fixation is in range of 0° ... 270° free selectable.

On
 Off

Tolerances Switching angle (N.C.) + / - 1,5 °
 Tolerances Forced disconnect torque 10%
 Tolerances Forced disconnect angle + / - 1,5 °



Swivel range: 0° bis 270°

Electrical data		
Operating voltage	U	18 ... 31,6 V; via AS-interface, reverse-polarity proof
Operating current	I	< 40 mA
AS-i Specifications		Profile S-0.B IO-Code: 0x0 ID-Code: 0xB ID-Code1: 0xF ID-Code2: 0xE
AS-i Inputs		Contact 1: Data bits D0/D1 = static 00 or dynamic code transmission Contact 2: Data bits D2/D3 = static 00 or dynamic code transmission
Parameter bits		no function
AS-i Address		preset address: 0

Mechanical data		
Switch		PBT
Hinge		Cast stainless steel
Indication		LEDs for slave and bus state
Ambient air temperature		-25 °C ... +70 °C (connecting cable permanently mounted; no freezing over / no condensation)
Contact type		2 NC (slow-action, Zb)
Mechanical life		10 ⁶ operating cycles
Switching frequency		Max. 300 operations/h
Mounting		4 x M6 screws DIN EN ISO 7984 on flat and stiff ground
Connection		Fixed connecting cable; PVC, black with M12 plug connector male min. bending radius = 60 mm
Plug connection		1: AS-i + 2: free 3: AS-i - 4: free
Weight		≈ 0,56 kg
Mounting position		any
Protection type		IP69 acc. to EN 60529
Switching angle		± 3 ° from fixation 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 (Forces see the illustration page 1)		F _{R1} = max. 1200 N F _{R2} = max. 500 N F _A = max. 1200 N

Standards	
	DIN EN 60947-1
	DIN EN 60947-5-1
	DIN EN 62026-2 , EN ISO 13849-1 , EN 62061

EU Conformity	
	acc. to directive 2014/30/EU (EMC-Directive)

ID for safety engineering	
Electronics	MTTFd >100 years
	PFH $1,05 \times 10^{-9}$ 1/h
Mechanics	B10d 2×10^6 cycles

Notes
<p>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 be used as bearing element.</p> <p>High forces, unfavourable force application as well as dynamic loads can shorten the service life.</p> <p>In case that the SHS3 is used at an ambient temperature of 70° an accelerated ageing of the connecting cable can occur.</p> <p>The connecting cable shall be protected against mechanical damages.</p> <p>The installation of the connecting cable can be done via pipes or cable ducts.</p> <p>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.</p> <p>Especially these standards apply: EN 349, EN 953, DIN EN ISO 14119, DIN EN ISO 13857,</p> <p>The switch shall not be used as a mechanical stop.</p> <p>During cleaning process, the protection class must be considered.</p>