

1) Reference edge



Basic features

Additional features	Special switch Special wiring without ground conductor connection
Approval/Conformity	CE UKCA CCC WEEE
Basic standard	IEC 60947-5-1
Operating principle	1. Switch position: Mechanical
Version	Snap contact

Display/Operation

Function indicator	1. Switch position: None
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Electrical connection

Connection	M12x1-Flange male, 4-pin, A-coded
Connection type	1. Switch position: Connector

Electrical data

Continuous current	1. Switch position: 0.1 A
Rated operating voltage U_e	1. Switch position: 25 V AC/60 V DC
Switching function mechanical	Single-pin changeover
Switching rate	1. Switch position: 200/min

Environmental conditions

Ambient temperature	-5...85 °C
IP rating	IP67

Functional safety

B10d (EN ISO 13849-1)	BSE 73.1: 10 mil. switching cycles
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Material

Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized
Material contacts	1. Switch position: Gold
Plunger material	1. Switch position: 1.4034 stainless steel

Mechanical data

Approach direction	lateral or at right angles to mounting surface
Approach speed	1. Switch position: 60 m/min
Distance cam - reference edge	1. Switch position: 2.30...2.80 mm
Flange, feed-through	None
Installation	any
Life expectancy mechanical	1. Switch position: 10 mil. switching operations
Number of switching positions	Roller Mechanical
Plunger style	1st switch position: Roller
Switch actuation force	1. Switch position: 8 N
Switching element	1. Switch position: BSE 73.1

Mechanical Cam Switches
BNS 819-X512-100-R-12-S4
Order Code: BNS0072



Range/Distance

Reproducibility

1. Switch position: ± 0.05 mm

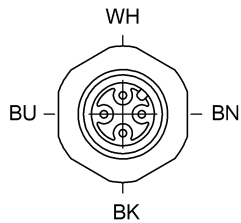
Remarks

Connection / pin assignments determined by customer. Does not correspond to a known technical standard.

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values do not extend the limitation period for claims arising from defects or influence them in any other way.

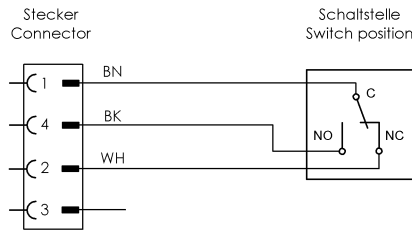
We call you attention to the fact that the product listed here alone are not considered safety components according to Machine Directive 2006/42/EC Article 2c. It is however possible to construct structures per EN 13849-1 having a high performance level using the products with two channels.

Connector Drawings



View of connector side

Wiring Diagrams



ACHTUNG: Stecker ohne Schutzleiter!
Schutzklasse III (VDE 0160)

Attention: No groundwire!
Protection Class III (VDE 0160)