



1) Reference edge, 2) Sealing ring



Basic features

Approval/Conformity	CE CCC WEEE EAC
Basic standard	IEC 60947-5-1
Operating principle	1-5. Switch position: Mechanical
Version	Snap contact

Display/Operation

Function indicator	1-5. Switch position: None
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Electrical connection

Connection type	1-5. Switch position: Screw terminal
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Electrical data

Continuous current	1-5. Switch position: 0.1 A
Rated operating voltage Ue	1-5. Switch position: 250 V AC
Switching function mechanical	Single-pin changeover
Switching rate	1-5. Switch position: 200/min

Environmental conditions

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

Functional safety

B10d (EN ISO 13849-1)	BSE 74.1: 10 mil. Switching operations
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Material

Housing material	Aluminum, Anodized
Housing material, surface protection	Anodized
Material contacts	1-5. Switch position: Gold
Plunger material	1-5. Switch position: Stainless steel (1.4034)

Mechanical data

Approach direction	longitudinal, parallel to attachment surface
Approach speed	1-5. Switch position: 20 m/min
Dimension	72 x 80 x 47 mm
Distance cam - reference edge	1-5. Switch position: 2.30...2.80 mm
Flange, feed-through	1 threaded exit M16
Installation	Vertical
Life expectancy mechanical	1-5. Switch position: 10 million Switching operations
Number of switching positions	5x Chisel
Plunger spacing 1st switch position	26 mm
Plunger style	1-5. switch position: Chisel
Switch actuation force	1-5. Switch position: 8 N
Switching element	1-5. Switch position: BSE 74.1

Mechanical Cam Switches
BNS 819-B05-D10-46-13
Order Code: BNS01YU

BALLUFF

Range/Distance

Reproducibility
Switch position spacing

1-5. Switch position: ± 0.02 mm
10 mm

Wiring Diagrams

