



1) Reference edge



Basic features

Approval/Conformity	CE UKCA CCC WEEE
Basic standard	IEC 60947-5-1
Operating principle	1-4. Switch position: Mechanical
Version	Snap contact

Display/Operation

Function indicator	1-4. Switch position: None
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Electrical connection

Connection type	1-4. Switch position: Screw terminal
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Electrical data

Continuous current	1-4. Switch position: 0.1 A
Rated operating voltage U _e	1-4. Switch position: 30 V DC
Switching function mechanical	Single-pin changeover
Switching rate	1-4. 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 cycles
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Material

Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized
Material contacts	1-4. Switch position: Gold
Plunger material	1-4. Switch position: 1.4034 stainless steel

Mechanical data

Approach direction	longitudinal, parallel to attachment surface
Approach speed	1-4. Switch position: 40 m/min
Dimension	79 x 60 x 63 mm
Distance cam - reference edge	1-4. Switch position: 4.50...5.00 mm
Flange, feed-through	None
Installation	Vertical
Life expectancy mechanical	1-4. Switch position: 10 mil. switching operations
Number of switching positions	4x Chisel Mechanical
Plunger spacing 1st switch position	12 mm
Plunger style	1-4th switch position: Chisel
Switch actuation force	1-4. Switch position: 15 N
Switching element	1-4. Switch position: BSE 74.1

Mechanical Cam Switches
BNS 819-B04-D12-61-12-3B
Order Code: BNS029U

BALLUFF

Range/Distance

Reproducibility
Switch position spacing

1-4. Switch position: ± 0.002 mm
12 mm

Wiring Diagrams

