



1) Reference edge, 2) Mark. Safety switch position, 3) 1st pos.



Basic features

Approval/Conformity	CE WEEE EAC
Basic standard	IEC 60947-5-1
Operating principle	1-6. Switch position: Mechanical
Version	Safety EN 60204-1

Display/Operation

Function indicator	1-6. Switch position: None
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Electrical connection

Connection type	1-6. Switch position: Screw terminal
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Electrical data

Continuous current	1-6. Switch position: 6 A
Rated operating voltage Ue	1-6. Switch position: 250 V AC
Switching rate	1-4. Switch position: 160/min 5-6. Switch position: 300/min

Environmental conditions

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

Functional safety

B10d (EN ISO 13849-1)	BSE 30.0: 30 mil. Switching operations BSE 85: 1 mil. Switching operations
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Material

Housing material	Aluminum, Anodized
Housing material, surface protection	Anodized
Material contacts	1-4. Switch position: Silver 5-6. Switch position: Silver, gold plated
Plunger material	1-6. Switch position: Stainless steel (1.4034)

Mechanical Cam Switches
BNS 813-B06-R12-72-20-04
Order Code: BNS023M

BALLUFF

Mechanical data

Approach direction	Vertical to mounting surface
Approach speed	1-6. Switch position: 60 m/min
Dimension	132 x 90 x 77 mm
Distance cam - reference edge	1-6. Switch position: 2.50...3.00 mm
Flange, feed-through	1 threaded exit M25
Installation	Horizontal
Life expectancy mechanical	1-4. Switch position: 1 million Switching operations 5-6. Switch position: 30 million Switching operations

Number of switching positions	6x Roller
Plunger spacing 1st switch position	50 mm
Plunger style	1-6th switch position: Roller
Switch actuation force	1-4. Switch position: 30 N 5-6. Switch position: 20 N
Switching element	1-4. Switch position: BSE 85 5-6. Switch position: BSE 30.0

Range/Distance

Reproducibility	1-4. Switch position: ± 0.02 mm 5-6. Switch position: ± 0.01 mm
Switch position spacing	12 mm

Wiring Diagrams

