



1) Reference edge, 2) Sealing ring, 3) Cable passage, 4) Mark. Safety switch position



Basic features

Approval/Conformity	CE UKCA CCC WEEE
Basic standard	IEC 60947-5-1
DIN switch	DIN 43697
Operating principle	1-4. Switch position: Mechanical
Version	Safety EN 60204-1

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: 6 A
Rated operating voltage Ue	1-4. Switch position: 250 V AC
Switching function mechanical	One NO and one NC galvanically isolated Normally open with snap funct. Double-interrupting NC forced-opening per VDE Dual changeover
Switching rate	1-4. Switch position: 160/min

Environmental conditions

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

Functional safety

B10d (EN ISO 13849-1)	BSE 85: 1 mil. switching cycles
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Material

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

Mechanical Cam Switches
BNS 813-D04-R12-100-22-04
Order Code: BNS010R

BALLUFF

Mechanical data

Approach direction	longitudinal, parallel to attachment surface
Approach speed	1-4. Switch position: 60 m/min
Dimension	120 x 90 x 83 mm
Distance cam - reference edge	1-4. Switch position: 4.50...5.00 mm
Flange, feed-through	2 threaded exit M25
Installation	Vertical
Life expectancy mechanical	1-4. Switch position: 1 mil. switching operations

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

Range/Distance

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

Wiring Diagrams

BSE 85

