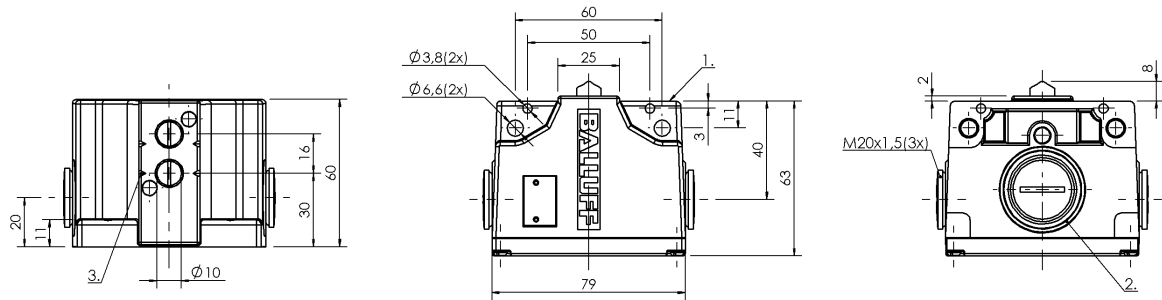


Mechanical Cam Switches
BNS 813-B02-D16-61-D-12-02
Order Code: BNS02F1

BALLUFF



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



Basic features

Approval/Conformity	CE UKCA CCC WEEE
Basic standard	IEC 60947-5-1
Operating principle	1-2. Switch position: Mechanical
Version	Safety EN 60204-1

Display/Operation

Function indicator	1-2. Switch position: None
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Electrical connection

Connection type	1-2. Switch position: Screw terminal
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Electrical data

Continuous current	1-2. Switch position: 6 A
Rated operating voltage Ue	1-2. Switch position: 250 V AC
Switching function mechanical	NC forced-opening per VDE Double-interrupting
Switching rate	1-2. Switch position: 300/min

Environmental conditions

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

Functional safety

B10d (EN ISO 13849-1)	BSE 61: 30 mil. switching cycles
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Material

Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized
Material contacts	1-2. Switch position: Silver
Plunger material	1-2. Switch position: 1.4034 stainless steel

Mechanical data

Approach direction	longitudinal, parallel to attachment surface
Approach speed	1-2. Switch position: 40 m/min
Dimension	79 x 60 x 63 mm
Distance cam - reference edge	1-2. Switch position: 4.50...5.00 mm
Flange, feed-through	1 threaded exit M20
Installation	Vertical
Life expectancy mechanical	1-2. Switch position: 30 mil. switching operations
Number of switching positions	2x Chisel Mechanical
Plunger spacing 1st switch position	30 mm
Plunger style	1-2nd switch position: Chisel
Switch actuation force	1-2. Switch position: 15 N
Switching element	1-2. Switch position: BSE 61

Range/Distance

Reproducibility
Switch position spacing

1-2. Switch position: $\pm 0.002\text{ mm}$
16 mm

Wiring Diagrams

BSE 61

