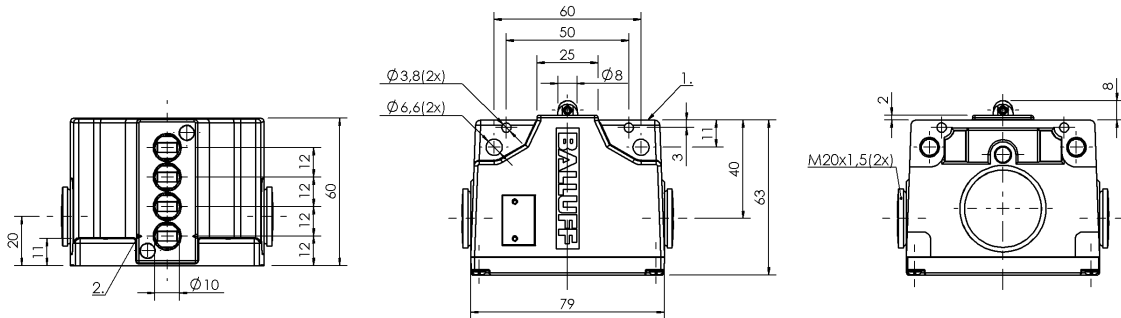


Mechanical Cam Switches

BNS 813-B04-R12-61-A-10-01

Order Code: BNS02M9

BALLUFF



1) Reference edge, 2) Mark. Safety switch position



Basic features

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

Material

Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized
Material contacts	1. Switch position: Fine silver 2-4. Switch position: Silver, gold plated
Plunger material	1-4. Switch position: 1.4034 stainless steel

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 rate	1-4. 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 cycles BSE 61: 30 mil. switching cycles
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Mechanical data

Approach direction	longitudinal, parallel to attachment surface
Approach speed	1-4. Switch position: 60 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: 30 mil. switching operations
Number of switching positions	4x Roller Mechanical
Plunger spacing 1st switch position	12 mm
Plunger style	1-4th switch position: Roller
Switch actuation force	1. Switch position: 15 N 2-4. Switch position: 20 N
Switching element	1. Switch position: BSE 61 2-4. Switch position: BSE 30.0

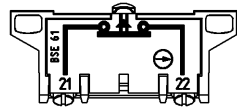
Range/Distance

Reproducibility
Switch position spacing

1-4. Switch position: ± 0.01 mm
12 mm

Wiring Diagrams

BSE 61



BSE 30.0

