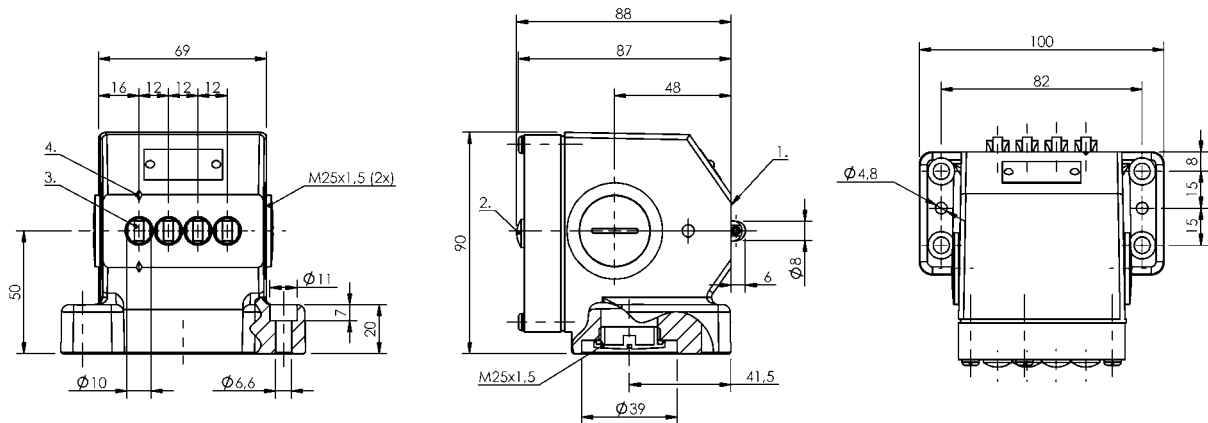


Mechanical Cam Switches
BNS 813-B04-R12-72-10-01-FD
Order Code: BNS0233

BALLUFF



1) Reference edge, 2) Function indicator FD/FE/LL, 3) 1st pos., 4) 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: 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: FD - 6...60 V
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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 61: 30 mil. switching cycles BSE 30.0: 30 mil. switching cycles
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Mechanical data

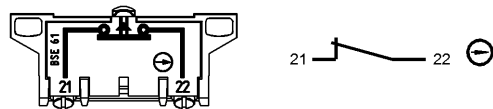
Approach direction	Vertical to mounting surface
Approach speed	1-4. Switch position: 60 m/min
Dimension	100 x 90 x 87.5 mm
Distance cam - reference edge	1-4. Switch position: 2.50...3.00 mm
Flange, feed-through	1 threaded exit M25
Installation	Horizontal
Life expectancy mechanical	1-4. Switch position: 30 mil. switching operations
Number of switching positions	4x Roller Mechanical
Plunger spacing 1st switch position	50 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	1-4. Switch position: ±0.01 mm
Switch position spacing	12 mm

Wiring Diagrams

BSE 61



BSE 30.0

