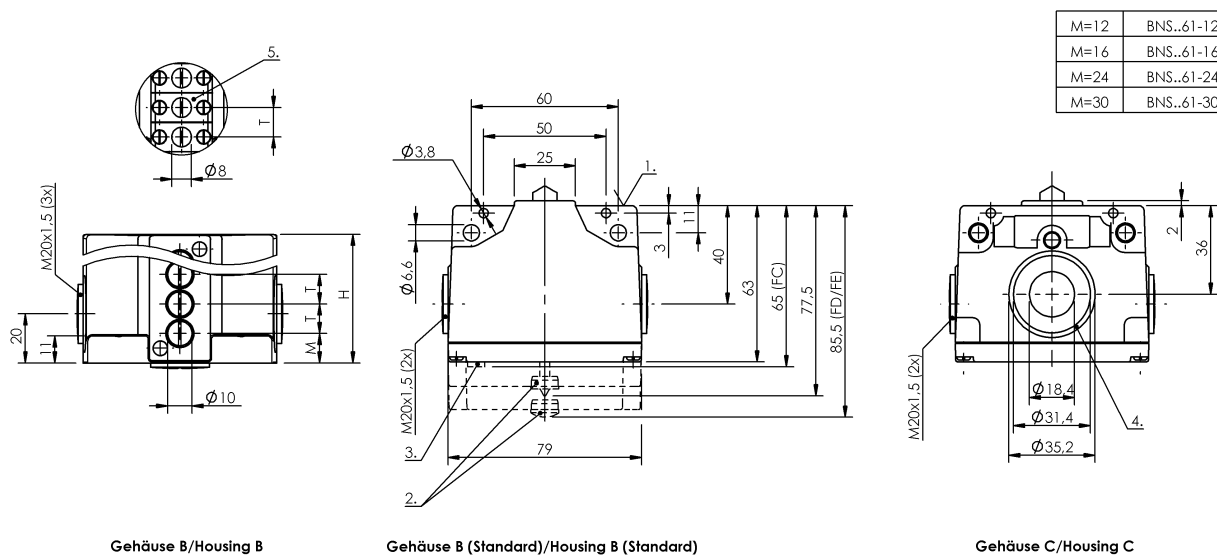


Mechanical Cam Switches
BNS 819-B03-R12-61-12-10-FD
Order Code: BNS029A

BALLUFF



1) Reference edge, 2) Function indicator FD/FE/LL, 3) Function indicator FC, 4) Sealing ring, 5) Anti-crystallization plunger



Display/Operation

Function indicator 1-3. Switch position: FD - 6...60 V

Electrical connection

Connection type 1-3. Switch position: Screw terminal

Electrical data

Continuous current 1-3. Switch position: 6 A
Rated operating voltage U_e 1-3. Switch position: 250 V AC
Switching function mechanical Double-interrupting galvanically isolated
 One NO and one NC
 Dual changeover
Switching rate 1-3. 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

General data

Approval/Conformity CE
 WEEE
Basic standard IEC 60947-5-1
Operating principle 1-3. Switch position: Mechanical
Version Snap contact

Material

Housing material Aluminum
Housing material, surface protection Anodized
Material contacts 1-3. Switch position: Silver, gold plated
Plunger material 1-3. Switch position: Stainless steel (1.4034)

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Mechanical data

Approach direction	longitudinal, parallel to attachment surface
Approach speed	1-3. Switch position: 60 m/min
Dimension	79 x 48 x 85.5 mm
Distance cam - reference edge	1-3. Switch position: 4.50...5.00 mm
Flange, feed-through	None
Installation	Vertical
Life expectancy mechanical	1-3. Switch position: 30 million Switching operations

Number of switching positions	3x Roller
Plunger spacing 1st switch position	12 mm
Plunger style	1-3rd switch position: Roller
Switch actuation force	1-3. Switch position: 20 N
Switching element	1-3. Switch position: BSE 30.0

Range/Distance

Reproducibility	1-3. Switch position: ± 0.01 mm
Switch position spacing	12 mm

Wiring Diagrams

BSE 30.0

