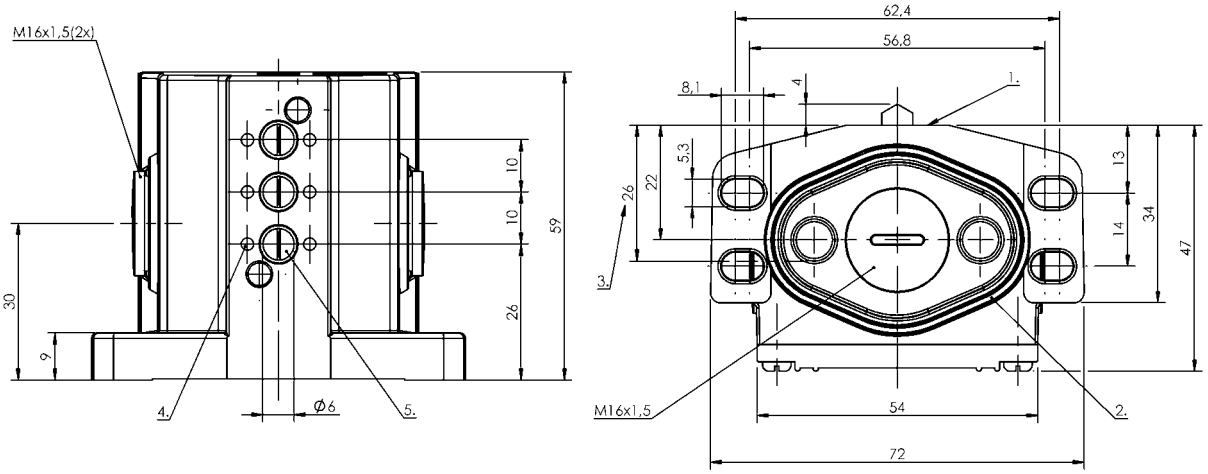
Mechanical Cam Switches

# BNS 813-B03-D10-46-69-03
# Order Code: BNS0586




1) Reference edge, 2) Sealing ring, 3) Cable passage, 4) Mark. Safety switch position, 5) 1st pos.

## Basic features

| | |
|---|---|
| Approval/Conformity | CE<br>UKCA<br>CCC<br>WEEE |
| Basic standard | IEC 60947-5-1 |
| Operating principle | 1-3. Switch position: Mechanical |
| Version | with forced opening |

## Display/Operation

| | |
|---|---|
| Function indicator | 1-3. Switch position: None |

## Electrical connection

| | |
|---|---|
| Connection type | 1-3. Switch position: Solder connection |

## Electrical data

| | |
|---|---|
| Continuous current | 1-3. Switch position: 5 A |
| Rated operating voltage Ue | 1-3. Switch position: 250 V AC |
| Switching function mechanical | NO forced-opening |
| Switching rate | 1-3. Switch position: 200/min |

## Environmental conditions

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

## Functional safety

| | |
|---|---|
| B10d (EN ISO 13849-1) | BSE 86: 10 mil. switching cycles |

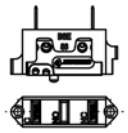
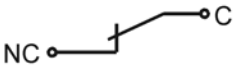
## Material

| | |
|---|---|
| Housing material | Aluminium, Anodized |
| Housing material, surface protection | Anodized |
| Material contacts | 1-3. Switch position: Silver |
| Plunger material | 1-3. Switch position: 1.4034 stainless steel |

## Mechanical data

| | |
|---|---|
| Approach direction | longitudinal, parallel to attachment surface |
| Approach speed | 1-3. Switch position: 20 m/min |
| Distance cam - reference edge | 1-3. Switch position: 2.50...2.80 mm |
| Flange, feed-through | 1 threaded exit M16 |
| Installation | Vertical |
| Life expectancy mechanical | 1-3. Switch position: 10 mil. switching operations |
| Number of switching positions | 3x Chisel Mechanical |
| Plunger style | 1-3rd switch position: Chisel |
| Switch actuation force | 1-3. Switch position: 8 N |
| Switching element | 1-3. Switch position: BSE 86 |

## Range/Distance

| | |
|---|---|
| Reproducibility | 1-3. Switch position: ±0.02 mm |

## Wiring Diagrams