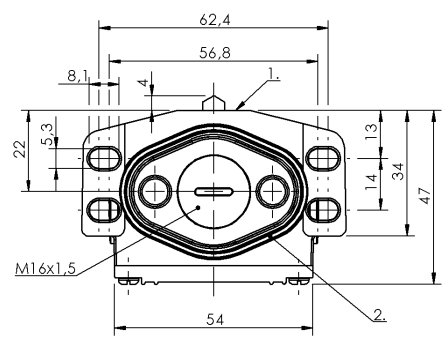
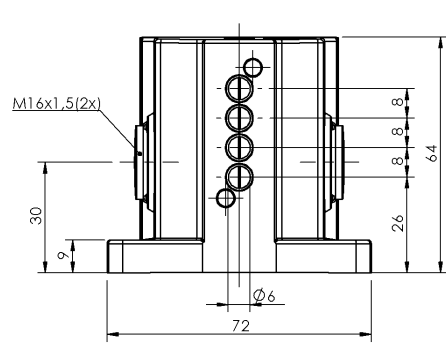


Mechanical Cam Switches  
BNS 819-B04-D08-46-12  
Order Code: BNS01UW



1) Reference edge, 2) Sealing ring



Basic features

|                     |                                  |
|---------------------|----------------------------------|
| Operating principle | 1-4. Switch position: Mechanical |
|---------------------|----------------------------------|

Display/Operation

|                    |                            |
|--------------------|----------------------------|
| Function indicator | 1-4. Switch position: None |
|--------------------|----------------------------|

Electrical connection

|                 |                                         |
|-----------------|-----------------------------------------|
| Connection type | 1-4. Switch position: Solder connection |
|-----------------|-----------------------------------------|

Electrical data

|                                        |                                |
|----------------------------------------|--------------------------------|
| Continuous current                     | 1-4. Switch position: 0.1 A    |
| Rated operating voltage U <sub>e</sub> | 1-4. Switch position: 250 V AC |
| Switching rate                         | 1-4. Switch position: 200/min  |

Environmental conditions

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

Material

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| Housing material                     | Aluminium, Anodized                          |
| Housing material, surface protection | Anodized                                     |
| Material contacts                    | 1-4. Switch position: Gold                   |
| Plunger material                     | 1-4. Switch position: 1.4034 stainless steel |

Mechanical data

|                               |                                                                |
|-------------------------------|----------------------------------------------------------------|
| Approach direction            | longitudinal, parallel to attachment surface                   |
| Approach speed                | 1-4. Switch position: 20 m/min                                 |
| Distance cam - reference edge | 1-4. Switch position: 2.30...2.80 mm                           |
| Flange, feed-through          | 1 threaded exit M16                                            |
| Installation                  | Vertical                                                       |
| Life expectancy mechanical    | 1-4. Switch position: 10 mil. switching operations             |
| Number of switching positions | 4x Chisel Mechanical                                           |
| Plunger style                 | 1-4th switch position: Chisel<br>1-4th switch position: Chisel |
| Switch actuation force        | 1-4. Switch position: 8 N                                      |
| Switching element             | 1-4. Switch position: BSE 73.1                                 |

Range/Distance

|                 |                                |
|-----------------|--------------------------------|
| Reproducibility | 1-4. Switch position: ±0.02 mm |
|-----------------|--------------------------------|

Wiring Diagrams

