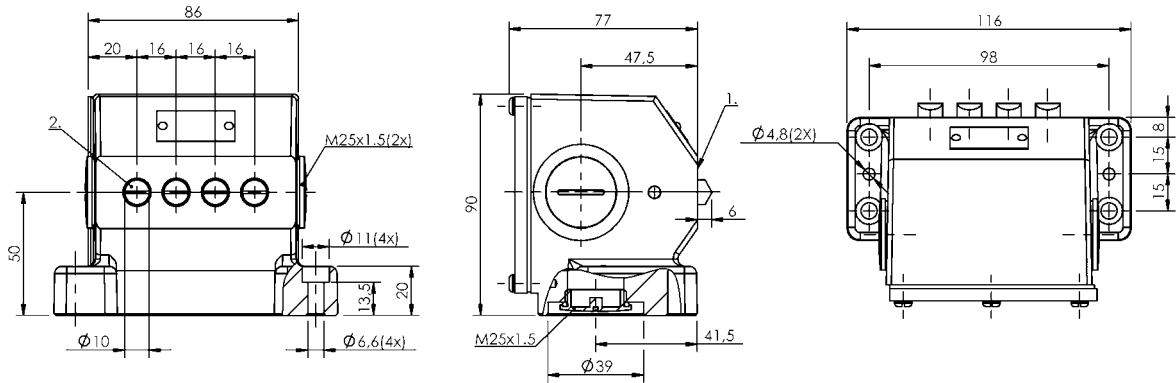


Mechanical Cam Switches  
BNS 819-B04-D16-72-10  
Order Code: BNS0252



1) Reference edge, 2) 1st pos.



Basic features

|                     |                                  |
|---------------------|----------------------------------|
| Approval/Conformity | CE<br>UKCA<br>CCC<br>WEEE        |
| Basic standard      | IEC 60947-5-1                    |
| Operating principle | 1-4. Switch position: Mechanical |
| Version             | Snap contact                     |

Display/Operation

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

Electrical connection

|                 |                                      |
|-----------------|--------------------------------------|
| Connection type | 1-4. Switch position: Screw terminal |
|-----------------|--------------------------------------|

Electrical data

|                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| Continuous current            | 1-4. Switch position: 6 A                                                         |
| Rated operating voltage Ue    | 1-4. Switch position: 250 V AC                                                    |
| Switching function mechanical | Dual changeover<br>One NO and one NC galvanically isolated<br>Double-interrupting |
| 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 |
|-----------------------|------------------------------------|

Material

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

Mechanical data

|                                     |                                                    |
|-------------------------------------|----------------------------------------------------|
| Approach direction                  | Vertical to mounting surface                       |
| Approach speed                      | 1-4. Switch position: 40 m/min                     |
| Dimension                           | 116 x 90 x 77 mm                                   |
| Distance cam - reference edge       | 1-4. Switch position: 2.50...3.00 mm               |
| Flange, feed-through                | 1 threaded exit M25                                |
| Installation                        | Vertical                                           |
| Life expectancy mechanical          | 1-4. Switch position: 30 mil. switching operations |
| Number of switching positions       | 4x Chisel Mechanical                               |
| Plunger spacing 1st switch position | 50 mm                                              |
| Plunger style                       | 1-4th switch position: Chisel                      |
| Switch actuation force              | 1-4. Switch position: 20 N                         |
| Switching element                   | 1-4. Switch position: BSE 30.0                     |

Range/Distance

Reproducibility  
Switch position spacing

1-4. Switch position:  $\pm 0.002$  mm  
16 mm

Wiring Diagrams

BSE 30.0

