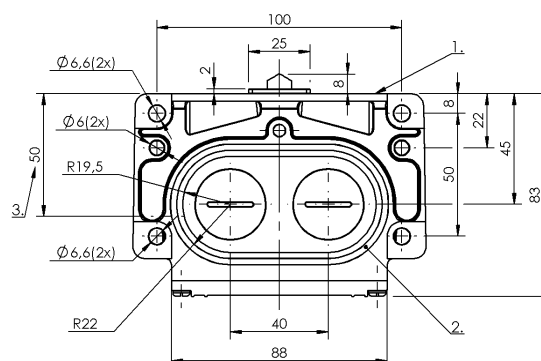
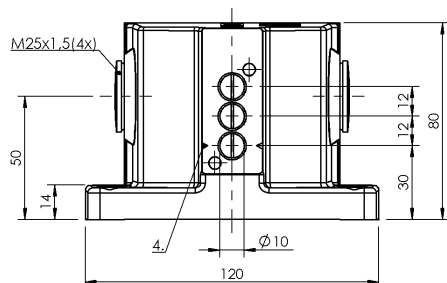




1) Reference edge, 2) Sealing ring, 3) Cable passage, 4) Mark. Safety switch position



## Basic features

|                     |                                  |
|---------------------|----------------------------------|
| Approval/Conformity | CE<br>UKCA<br>CCC<br>WEEE        |
| Basic standard      | IEC 60947-5-1                    |
| DIN switch          | DIN 43697                        |
| Operating principle | 1-3. Switch position: Mechanical |
| Version             | Safety EN 60204-1                |

## Display/Operation

Function indicator 1-3. Switch position: None

## Electrical connection

Connection type 1-3. Switch position: Screw terminal

## Electrical data

|                            |                                |
|----------------------------|--------------------------------|
| Continuous current         | 1-3. Switch position: 6 A      |
| Rated operating voltage Ue | 1-3. Switch position: 250 V AC |
| 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 cycles<br>BSE 61: 30 mil. switching cycles |
|-----------------------|------------------------------------------------------------------------|

## Material

|                                             |                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------|
| <b>Housing material</b>                     | Aluminium, Anodized                                                     |
| <b>Housing material, surface protection</b> | Anodized                                                                |
| <b>Material contacts</b>                    | 1. Switch position: Silver<br>2-3. Switch position: Silver, gold plated |
| <b>Plunger material</b>                     | 1-3. Switch position: 1.4034 stainless steel                            |

Mechanical Cam Switches  
BNS 813-D03-D12-100-10-01  
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Mechanical data

|                               |                                                    |
|-------------------------------|----------------------------------------------------|
| Approach direction            | longitudinal, parallel to attachment surface       |
| Approach speed                | 1-3. Switch position: 40 m/min                     |
| Dimension                     | 120 x 80 x 83 mm                                   |
| Distance cam - reference edge | 1-3. Switch position: 4.50...5.00 mm               |
| Flange, feed-through          | 2 threaded exit M25                                |
| Installation                  | Vertical                                           |
| Life expectancy mechanical    | 1-3. Switch position: 30 mil. switching operations |

|                                     |                                                              |
|-------------------------------------|--------------------------------------------------------------|
| Number of switching positions       | 3x Chisel Mechanical                                         |
| Plunger spacing 1st switch position | 30 mm                                                        |
| Plunger style                       | 1-3rd switch position: Chisel                                |
| Switch actuation force              | 1. Switch position: 15 N<br>2-3. Switch position: 20 N       |
| Switching element                   | 1. Switch position: BSE 61<br>2-3. Switch position: BSE 30.0 |

Range/Distance

|                         |                                     |
|-------------------------|-------------------------------------|
| Reproducibility         | 1-3. Switch position: $\pm 0.02$ mm |
| Switch position spacing | 12 mm                               |

Wiring Diagrams

