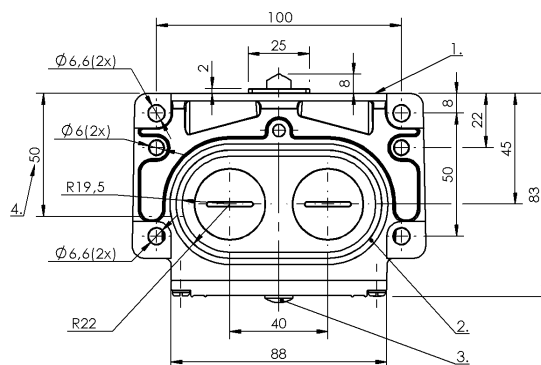
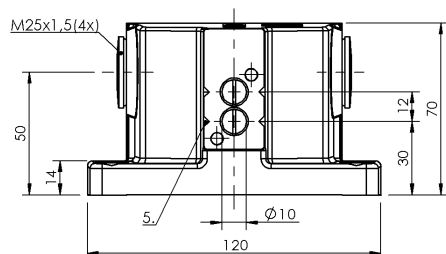




1) Reference edge, 2) Sealing ring, 3) Function indicator FD/FE/LL, 4) Cable passage, 5) Mark. Safety switch position



## Basic features

|                     |                                  |
|---------------------|----------------------------------|
| Approval/Conformity | CE<br>UKCA<br>CCC<br>WEEE        |
| Basic standard      | IEC 60947-5-1                    |
| DIN switch          | DIN 43697                        |
| Operating principle | 1-2. Switch position: Mechanical |
| Version             | Safety EN 60204-1                |

## Display/Operation

|                    |                                     |
|--------------------|-------------------------------------|
| Function indicator | 1-2. Switch position: FD - 6...60 V |
|--------------------|-------------------------------------|

## Electrical connection

|                 |                                      |
|-----------------|--------------------------------------|
| Connection type | 1-2. Switch position: Screw terminal |
|-----------------|--------------------------------------|

## Electrical data

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Continuous current            | 1-2. Switch position: 6 A                        |
| Rated operating voltage Ue    | 1-2. Switch position: 250 V AC                   |
| Switching function mechanical | NC forced-opening per VDE<br>Double-interrupting |
| Switching rate                | 1-2. Switch position: 300/min                    |

## Environmental conditions

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

## Functional safety

|                       |                                  |
|-----------------------|----------------------------------|
| B10d (EN ISO 13849-1) | BSE 61: 30 mil. switching cycles |
|-----------------------|----------------------------------|

## Material

|                                             |                                              |
|---------------------------------------------|----------------------------------------------|
| <b>Housing material</b>                     | Aluminium, Anodized                          |
| <b>Housing material, surface protection</b> | Anodized                                     |
| <b>Material contacts</b>                    | 1-2. Switch position: Fine silver            |
| <b>Plunger material</b>                     | 1-2. Switch position: 1.4034 stainless steel |

## Mechanical data

|                                     |                                                    |
|-------------------------------------|----------------------------------------------------|
| Approach direction                  | longitudinal, parallel to attachment surface       |
| Approach speed                      | 1-2. Switch position: 40 m/min                     |
| Dimension                           | 120 x 70 x 85 mm                                   |
| Distance cam - reference edge       | 1-2. Switch position: 4.50...5.00 mm               |
| Flange, feed-through                | 2 threaded exit M25                                |
| Installation                        | Vertical                                           |
| Life expectancy mechanical          | 1-2. Switch position: 30 mil. switching operations |
| Number of switching positions       | 2x Chisel Mechanical                               |
| Plunger spacing 1st switch position | 30 mm                                              |
| Plunger style                       | 1-2nd switch position: Chisel                      |
| Switch actuation force              | 1-2. Switch position: 15 N                         |
| Switching element                   | 1-2. Switch position: BSE 61                       |

Range/Distance

Reproducibility  
Switch position spacing

1-2. Switch position:  $\pm 0.002$  mm  
12 mm

Wiring Diagrams

BSE 61

