



1) Reference edge



### Basic features

|                     |                                  |
|---------------------|----------------------------------|
| Approval/Conformity | CE<br>WEEE                       |
| Basic standard      | IEC 60947-5-1                    |
| Operating principle | 1-3. Switch position: Mechanical |
| Version             | Snap contact                     |

### Display/Operation

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

### Electrical connection

|                 |                               |
|-----------------|-------------------------------|
| Connection      | M12x1-Flange male, 5-pin      |
| Connection type | 1. Switch position: Connector |

### Electrical data

|                               |                                |
|-------------------------------|--------------------------------|
| Continuous current            | 1-3. Switch position: 0.1 A    |
| Rated operating voltage Ue    | 1-3. Switch position: 250 V AC |
| Switching function mechanical | Single-pin changeover          |
| Switching rate                | 1-3. Switch position: 200/min  |

### Environmental conditions

|                     |            |
|---------------------|------------|
| Ambient temperature | -5...85 °C |
| Protection degree   | IP67       |

### Functional safety

|                       |  |
|-----------------------|--|
| B10d (EN ISO 13849-1) | BSE 74.1: 10 mil. Switching operations |
|-----------------------|--|

### Material

|                                      |  |
|--------------------------------------|--|
| Housing material                     | Aluminum, Anodized                             |
| Housing material, surface protection | Anodized                                       |
| Material contacts                    | 1-3. Switch position: Gold                     |
| Plunger material                     | 1-3. Switch position: Stainless steel (1.4034) |

### Mechanical data

|                                     |   |
|-------------------------------------|---|
| Approach direction                  | longitudinal, parallel to attachment surface          |
| Approach speed                      | 1-3. Switch position: 20 m/min                        |
| Dimension                           | 40 x 42 x 48 mm                                       |
| Distance cam - reference edge       | 1-3. Switch position: 2.30...2.80 mm                  |
| Flange, feed-through                | None  |
| Installation                        | Vertical  |
| Life expectancy mechanical          | 1-3. Switch position: 10 million Switching operations |
| Number of switching positions       | 3x Chisel   |
| Plunger spacing 1st switch position | 13 mm   |
| Plunger style                       | 1-3rd switch position: Chisel                         |
| Switch actuation force              | 1-3. Switch position: 8 N                             |
| Switching element                   | 1-3. Switch position: BSE 74.1                        |

### Range/Distance

|                         |                                |
|-------------------------|--------------------------------|
| Reproducibility         | 1-3. Switch position: ±0.02 mm |
| Switch position spacing | 8 mm                           |

## Connector Drawings



View of connector side

## Wiring Diagrams

