

1) Reference edge, 2) Function indicator FD/FE/LL



## Basic features

|                     |                                |
|---------------------|--------------------------------|
| Approval/Conformity | CE<br>UKCA<br>CCC<br>WEEE      |
| Basic standard      | IEC 60947-5-1                  |
| DIN switch          | DIN 43693                      |
| Operating principle | 1. Switch position: Mechanical |
| Version             | Snap contact                   |

## Display/Operation

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

## Electrical connection

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

## Electrical data

|                               |  |
|-------------------------------|--|
| Continuous current            | 1. Switch position: 4 A  |
| Rated operating voltage Ue    | 1. Switch position: 6...60 V   |
| Switching function mechanical | galvanically isolated<br>Double-interrupting<br>One NO and one NC<br>Dual changeover |
| Switching rate                | 1. 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. Switch position: Silver, gold plated    |
| Plunger material                     | 1. Switch position: 1.4034 stainless steel |

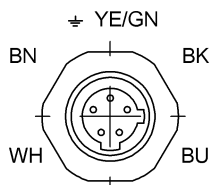
## Mechanical data

|                                     |  |
|-------------------------------------|--|
| Approach direction                  | any  |
| Approach speed                      | 1. Switch position: 10 m/min                     |
| Dimension                           | 74 x 28 x 76.5 mm                                |
| Distance cam - reference edge       | 1. Switch position: 4.50...5.00 mm               |
| Flange, feed-through                | None   |
| Installation                        | any  |
| Life expectancy mechanical          | 1. Switch position: 30 mil. switching operations |
| Number of switching positions       | Ball Mechanical                                  |
| Plunger spacing 1st switch position | 14 mm  |
| Plunger style                       | 1st switch position: Ball                        |
| Switch actuation force              | 1. Switch position: 20 N                         |
| Switching element                   | 1. Switch position: BSE 30.0                     |

## Range/Distance

|                 |                               |
|-----------------|-------------------------------|
| Reproducibility | 1. Switch position: ±0.002 mm |
|-----------------|-------------------------------|

## Connector Drawings



View of connector side

## Wiring Diagrams

