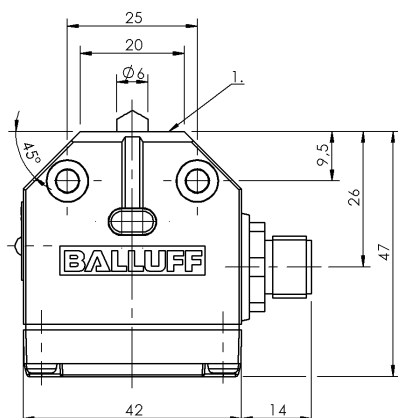


1) Reference edge



## Basic features

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

## Display/Operation

Function indicator 1. Switch position: None

## Electrical connection

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

## Electrical data

|                                        |                                                               |
|----------------------------------------|---------------------------------------------------------------|
| Connector, order code                  | BKS-S 80-W-PU-05 (right-angle)<br>BKS-S 80-G-PU-05 (straight) |
| Continuous current                     | 1. Switch position: 4 A                                       |
| Rated operating voltage U <sub>e</sub> | 1. Switch position: 250 V AC                                  |
| Switching function mechanical          | Single-pin changeover                                         |
| Switching rate                         | 1. Switch position: 200/min                                   |

## Environmental conditions

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

## Functional safety

B10d (EN ISO 13849-1) BSE 70.1: 10 mil. switching cycles

## Material

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

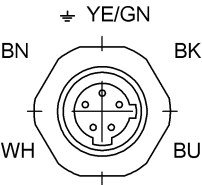
## Mechanical data

|                                     |                                                  |
|-------------------------------------|--------------------------------------------------|
| Approach direction                  | lateral or at right angles to mounting surface   |
| Approach speed                      | 1. Switch position: 20 m/min                     |
| Dimension                           | 42 x 22 x 47 mm                                  |
| Distance cam - reference edge       | 1. Switch position: 2.30...2.80 mm               |
| Flange, feed-through                | None                                             |
| Installation                        | any                                              |
| Life expectancy mechanical          | 1. Switch position: 10 mil. switching operations |
| Number of switching positions       | Chisel Mechanical                                |
| Plunger spacing 1st switch position | 11 mm                                            |
| Plunger style                       | 1st switch position: Chisel                      |
| Switch actuation force              | 1. Switch position: 8 N                          |
| Switching element                   | 1. Switch position: BSE 70.1                     |

## Range/Distance

**Reproducibility** 1. Switch position:  $\pm 0.02$  mm

Connector Drawings



View of connector side

Wiring Diagrams

