

**Basic features**

|                     |                                |
|---------------------|--------------------------------|
| Approval/Conformity | CE<br>UKCA<br>cULus<br>WEEE    |
| Basic standard      | IEC 60947-5-2<br>IEC 60947-5-7 |

**Display/Operation**

|                 |    |
|-----------------|----|
| Power indicator | no |
|-----------------|----|

**Electrical connection**

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Cable diameter D                  | 3.10 mm                           |
| Cable length L                    | 1.4 m                             |
| Connection                        | M8x1-Male, 3-pin                  |
| Connection type                   | Cable with connector, 1.40 m, PUR |
| Polarity reversal protected       | no                                |
| Protection against device mix-ups | no                                |
| Short-circuit protection          | no                                |

**Electrical data**

|                               |                 |
|-------------------------------|-----------------|
| Limit frequency -3 dB         | 1000 Hz         |
| Load resistance RL min.       | 5000 Ohm        |
| No-load current Io max. at Ue | 15 mA           |
| Operating voltage Ub          | 21.6...26.4 VDC |
| Rated insulation voltage Ui   | 75 V DC         |
| Rated operating voltage Ue DC | 24 V            |
| Ripple max. (% of Ue)         | 10 %            |
| Slope U                       | 6.67 V/mm       |

**Environmental conditions**

|                         |                                 |
|-------------------------|---------------------------------|
| Ambient temperature     | 10...60 °C                      |
| Contamination scale     | 3                               |
| EN 60068-2-27, Shock    | Half-sinus, 30 gn, 11 ms        |
| EN 60068-2-6, Vibration | 55 Hz, amplitude 1 mm, 3x30 min |
| IP rating               | IP67                            |

## Interface

|                           |                          |
|---------------------------|--------------------------|
| Analog output             | Analog, voltage 0...10 V |
| Output characteristic     | falling on approach      |
| Output voltage at SI max. | 10 V                     |
| Output voltage at SI min. | 0 V                      |
| Output voltage at Se      | 5 V                      |

## Material

|                          |                 |
|--------------------------|-----------------|
| Housing material         | Stainless steel |
| Material jacket          | PUR             |
| Material sensing surface | PBT             |

## Mechanical data

|                 |                    |
|-----------------|--------------------|
| Dimension       | Ø 6.5 x 30.5 mm    |
| Installation    | for flush mounting |
| Mounting length | 30.0 mm            |
| Size            | D6.5               |

## Range/Distance

|                                       |            |
|---------------------------------------|------------|
| Linearity range SI                    | 0.5...2 mm |
| Measuring range                       | 0.5...2 mm |
| Non-linearity max.                    | ±45 µm     |
| Repeat accuracy per BWN               | ±10 µm     |
| Temperature drift max. from end value | ±5.0 %     |

## Remarks

Values referenced to axial approach of St 37 target. For other materials correction factors are applied.

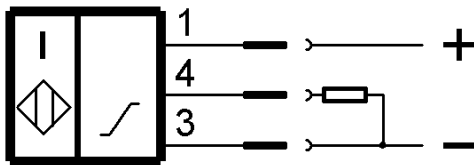
EMC: External protection circuit required, see instruction for EMC protection circuit 825345.

The specified parameters apply to the temperature range of +10...+60 °C. Function is also guaranteed in the ranges -10...+10 °C and +60...+70 °C.

## Connector Drawings



## Wiring Diagrams (Schematic)



Technical Drawings

