



1) Sensing surface, 2) Notch, 3) LED function indicator, 4) Button



### Basic features

|                               |  |
|-------------------------------|--|
| <b>Application</b>            | Positioning                                  |
| <b>Approval/Conformity</b>    | CE<br>cULus LISTED<br>IO-Link<br>WEEE<br>EAC |
| <b>Basic standard</b>         | IEC 60947-5-2<br>IEC 60947-5-7               |
| <b>Principle of operation</b> | Magnetic field positioning system            |
| <b>Scope of delivery</b>      | Short guide                                  |

### Display/Operation

|                                   |                 |
|-----------------------------------|-----------------|
| <b>Error diagnostic indicator</b> | Error - LED red |
| <b>Function indicator</b>         | LED yellow      |
| <b>Power indicator</b>            | Run - LED green |

### Electrical connection

|  |                            |
|--|----------------------------|
| <b>Bending radius min., fixed cable</b>    | 3 x D                      |
| <b>Bending radius min., flexible cable</b> | 10 x D                     |
| <b>Cable</b>                               | PUR, 0.5 m                 |
| <b>Cable diameter D</b>                    | 2.4 mm                     |
| <b>Connection</b>                          | M12x1-Male, 4-pin, A-coded |
| <b>Number of conductors</b>                | 4                          |
| <b>Polarity reversal protected</b>         | yes                        |
| <b>Short-circuit protection</b>            | yes                        |

### Electrical data

|  |             |
|--|-------------|
| <b>Current load capacity in SIO-mode</b>                   | ≤ 100 mA    |
| <b>No-load current I<sub>o</sub> max. at U<sub>e</sub></b> | 25 mA       |
| <b>Operating voltage U<sub>b</sub></b>                     | 15...30 VDC |
| <b>Rated insulation voltage U<sub>i</sub></b>              | 75 V DC     |
| <b>Rated operating voltage U<sub>e</sub> DC</b>            | 24 V        |
| <b>Ready delay t<sub>v</sub> max.</b>                      | 100 ms      |

### Environmental conditions

|                                |                                 |
|--------------------------------|---------------------------------|
| <b>Ambient temperature</b>     | -25...85 °C                     |
| <b>Contamination scale</b>     | 3                               |
| <b>EN 60068-2-27, Shock</b>    | 30 g <sub>n</sub> , 11 ms       |
| <b>EN 60068-2-6, Vibration</b> | 55 Hz, amplitude 2 mm, 3x30 min |
| <b>ESD</b>                     | 2B (4 kV)                       |
| <b>Emission</b>                | EN 55022, Class B               |
| <b>IP rating</b>               | IP67                            |

### Functional safety

|                     |       |
|---------------------|-------|
| <b>MTTF (40 °C)</b> | 201 a |
|---------------------|-------|

## IO-Link

|                                   |  |
|-----------------------------------|--|
| <b>IO-Link Profil IDs</b>         | 0x000B SSP3.2<br>0x4000 Identification and<br>Diagnosis      |
| <b>IO-Link function classes</b>   | 0x8001 Binary Data Channel<br>0x8004 Teach Commands          |
| <b>Supported IO-Link Profiles</b> | Common Profile<br>Smart Sensor Profile - Measuring<br>Device |

## Material

|                         |                   |
|-------------------------|-------------------|
| <b>Housing material</b> | PA 12<br>Aluminum |
| <b>Material jacket</b>  | PUR               |

## Mechanical data

|                               |                     |
|-------------------------------|---------------------|
| <b>Dimension</b>              | 17.5 x 9.6 x 266 mm |
| <b>Tightening torque max.</b> | 0.1 Nm              |

## Output/Interface

|                  |             |
|------------------|-------------|
| <b>Interface</b> | IO-Link 1.1 |
| <b>SIO mode</b>  | yes         |

## Range/Distance

|  |          |
|--|----------|
| <b>Measuring range</b>                       | 256 mm   |
| <b>Non-linearity typ.</b>                    | ±250 µm  |
| <b>Repeat accuracy</b>                       | ± 100 µm |
| <b>Resolution</b>                            | ≤ 1 µm   |
| <b>Sampling rate max.</b>                    | 1 kHz    |
| <b>Temperature drift max. from end value</b> | ±0.3 %   |

## Remarks

Please refer to manual.

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

## Connector Drawings



## Wiring Diagrams

