

1) Sensing surface



Basic features

|                        |                                     |
|------------------------|-------------------------------------|
| Approval/Conformity    | CE<br>cULus<br>WEEE                 |
| Principle of operation | Reed switch                         |
| Scope of delivery      | Offset screwdriver DIN 911 size 1.5 |

Display/Operation

|                    |     |
|--------------------|-----|
| Function indicator | yes |
|--------------------|-----|

Electrical connection

|                                   |                      |
|-----------------------------------|----------------------|
| Cable                             | PVC, 1 m             |
| Cable diameter D                  | 3.50 mm              |
| Conductor cross-section           | 0.14 mm <sup>2</sup> |
| Number of conductors              | 3                    |
| Polarity reversal protected       | no                   |
| Protection against device mix-ups | no                   |
| Short-circuit protection          | no                   |

Electrical data

|                                           |             |
|-------------------------------------------|-------------|
| Load capacitance max. at U <sub>e</sub>   | 0.5 µF      |
| Operating voltage U <sub>b</sub>          | 10...30 VDC |
| Rated insulation voltage U <sub>i</sub>   | 75 V DC     |
| Rated operating current I <sub>e</sub>    | 500 mA      |
| Rated operating voltage U <sub>e</sub> DC | 24 V        |
| Switching frequency                       | 1000 Hz     |
| Turn-off delay t <sub>off</sub> max.      | 0.2 ms      |
| Turn-on delay t <sub>on</sub> max.        | 0.7 ms      |
| Utilization category                      | DC -13      |

Environmental conditions

|                         |                                          |
|-------------------------|------------------------------------------|
| Ambient temperature     | -20...70 °C                              |
| Contamination scale     | 3                                        |
| EN 60068-2-27, Shock    | Half-sinus, 100 g <sub>n</sub> , 11 ms   |
| EN 60068-2-6, Vibration | 10...2000 Hz, 30 g <sub>n</sub> , 30 min |
| ESD                     | 4A(15kV)                                 |
| Emission                | Group 1, Class B                         |
| IP rating               | IP65                                     |

Functional safety

|              |      |
|--------------|------|
| MTTF (40 °C) | 17 a |
|--------------|------|

Interface

|                  |                                     |
|------------------|-------------------------------------|
| Switching output | Reed switch, PNP normally open (NO) |
|------------------|-------------------------------------|

Material

|                          |     |
|--------------------------|-----|
| Housing material         | LCP |
| Material jacket          | PVC |
| Material sensing surface | LCP |

Mechanical data

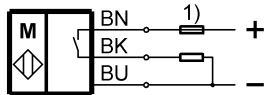
|                   |                   |
|-------------------|-------------------|
| Dimension         | 29 x 6.2 x 4.4 mm |
| Tightening torque | 0.1 Nm            |

Remarks

Recommendation: After a short circuit check the device for proper function.  
Sensor can also be powered with AC.  
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.

Wiring Diagrams (Schematic)



1) For SCP see electrical data