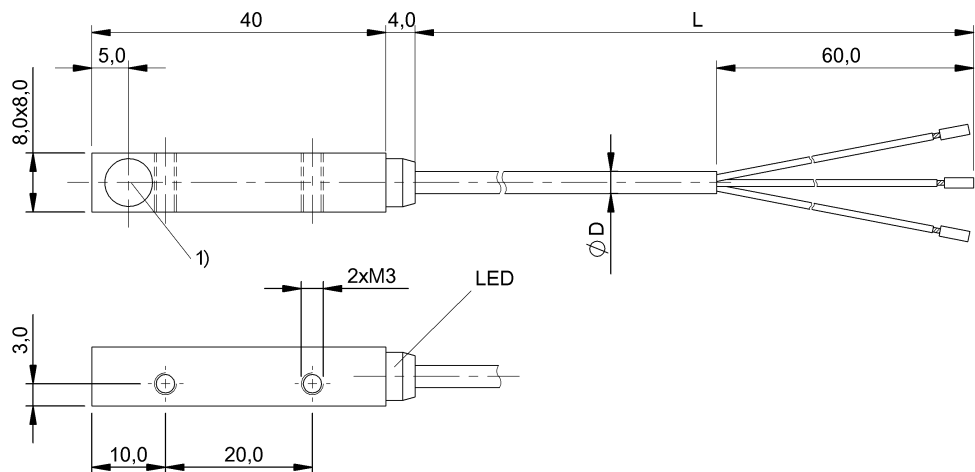




1) Sensing surface



#### Basic features

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

#### Display/Operation

|                    |     |
|--------------------|-----|
| Function indicator | yes |
| Power indicator    | no  |

#### Electrical connection

|                                   |                      |
|-----------------------------------|----------------------|
| Cable diameter D                  | 3.00 mm              |
| Cable length L                    | 2 m                  |
| Conductor cross-section           | 0.14 mm <sup>2</sup> |
| Connection type                   | Cable, 2.00 m, PVC   |
| Number of conductors              | 3                    |
| Polarity reversal protected       | yes                  |
| Protection against device mix-ups | yes                  |
| Short-circuit protection          | yes                  |

#### Electrical data

|                                               |               |
|-----------------------------------------------|---------------|
| Load capacitance max. at U <sub>e</sub>       | 0.5 µF        |
| Min. operating current I <sub>m</sub>         | 0 mA          |
| No-load current I <sub>o</sub> max., damped   | 4 mA          |
| No-load current I <sub>o</sub> max., undamped | 12 mA         |
| Operating voltage U <sub>b</sub>              | 10...30 VDC   |
| Output resistance R <sub>a</sub>              | 33.0 kOhm + D |
| Rated insulation voltage U <sub>i</sub>       | 75 V DC       |
| Rated operating current I <sub>e</sub>        | 200 mA        |
| Rated operating voltage U <sub>e</sub> DC     | 24 V          |
| Rated short circuit current                   | 100 A         |
| Ready delay t <sub>v</sub> max.               | 10 ms         |
| Residual current I <sub>r</sub> max.          | 80 µA         |
| Ripple max. (% of U <sub>e</sub> )            | 15 %          |
| Switching frequency                           | 5000 Hz       |
| Utilization category                          | DC -13        |
| Voltage drop static max.                      | 2.5 V         |

#### Environmental conditions

|                         |                                       |
|-------------------------|---------------------------------------|
| Ambient temperature     | -25...70 °C                           |
| Contamination scale     | 3                                     |
| EN 60068-2-27, Shock    | Half-sinus, 30 g <sub>n</sub> , 11 ms |
| EN 60068-2-6, Vibration | 55 Hz, amplitude 1 mm, 3x30 min       |
| IP rating               | IP67                                  |

#### Functional safety

|              |       |
|--------------|-------|
| MTTF (40 °C) | 830 a |
|--------------|-------|

Interface

Switching output PNP normally closed (NC)

Material

Housing material Zinc, Die casting  
Material jacket PVC  
Material sensing surface PBT

Mechanical data

Dimension 40 x 8 x 8 mm  
Installation for flush mounting  
Size 8x8  
Tightening torque 0.5 Nm

Remarks

The sensor is functional again after the overload has been eliminated.

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)

