

## 

## Display/Operation

| Function indicator | yes | Ambient temperature | $-25 . . .70^{\circ} \mathrm{C}$ |
| :---: | :---: | :---: | :---: |
| Power indicator | no | Contamination scale | 3 |
|  |  | EN 60068-2-27, Shock | Half-sinus, $30 \mathrm{gn}, 11 \mathrm{~ms}$ |
| Electrical connection |  | EN 60068-2-6, Vibration <br> IP rating | 55 Hz , amplitude $1 \mathrm{~mm}, 3 \times 30 \mathrm{~min}$ IP67 |
| Cable diameter D | 4.60 mm |  |  |
| Cable length L | 2 m | Functional safety |  |
| Conductor cross-section | $0.34 \mathrm{~mm}^{2}$ |  |  |
| Connection type | Cable, 2.00 m , PVC | MTTF ( $40{ }^{\circ} \mathrm{C}$ ) | 640 a |
| Number of conductors | 3 |  |  |
| Polarity reversal protected | yes | General data |  |
| Protection against device mix-ups | yes | Approval/Conformity |  |
| Short-circuit protection | yes |  |  |
|  |  |  | EAC |
| Electrical data |  |  | WEEE |
| Load capacitance max. at Ue | $0.5 \mu \mathrm{~F}$ | Basic standard | IEC 60947-5-2 |
| Min. operating current Im | 0 mA | Trademark | Global |
| No-load current lo max., damped | 10 mA |  |  |
| No-load current lo max., undamped | 3 mA | Material |  |
| Operating voltage Ub | 10... 30 VDC | Housing material | Brass |
| Output resistance Ra | 33.0 kOhm + D | Material jacket | PVC |
| Rated insulation voltage Ui | 250 V AC | Material sensing surface | PBT |
| Rated operating current le | 200 mA | Surface protection | Nickel-free coated |
| Rated operating voltage Ue DC | 24 V |  |  |
| Rated short circuit current | 100 A | Mechanical data |  |
| Ready delay tv max. | 20 ms |  |  |  |  |
| Residual current Ir max. | $10 \mu \mathrm{~A}$ | Dimension | $\varnothing 30 \times 76.5 \mathrm{~mm}$ |
| Ripple max. (\% of Ue) | 15 \% | Installation | non-flush |
| Switching frequency | 300 Hz | Size | M30x1.5 |
| Utilization category | DC-13 | Tightening torque | 70 Nm |
| Voltage drop static max. | 2.5 V |  |  |

Output/Interface
Switching output
PNP normally open (NO)

Range/Distance

| Assured operating distance Sa | 24 mm |
| :--- | :--- |
| Hysteresis H max. (\% of Sr) | $20.0 \%$ |
| Rated operating distance Sn | 30 mm |
| Real switching distance sr | 30 mm |
| Repeat accuracy max. (\% of Sr) | $5.0 \%$ |
| Switching distance marking | $\square$ |
| Temperature drift max. (\% of Sr) | $10 \%$ |
| Tolerance Sr | $\pm 10 \%$ |

## Remarks

The sensor is functional again after the overload has been eliminated.
Not for flush mounting: See installation instructions for inductive sensors with extended range 939229.
For further information about the 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



