



Basic features

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|---------------------|----------------------------|
| Approval/Conformity | CE cULus EAC WEEE |
| Basic standard | IEC 60947-5-2 |
| Trademark | Global |

Display/Operation

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

Electrical connection

| | |
|-----------------------------------|----------------------------|
| Connection | M12x1-Male, 4-pin, A-coded |
| Polarity reversal protected | yes |
| Protection against device mix-ups | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|---|-------------|
| Load capacitance max. at Ue | 1 µF |
| Min. operating current I _m | 5 mA |
| Operating voltage U _b | 10...36 VDC |
| Rated insulation voltage U _i | 75 V DC |
| Rated operating current I _e | 100 mA |
| Rated operating voltage U _e DC | 24 V |
| Rated short circuit current | 100 A |
| Ready delay t _v max. | 50 ms |
| Residual current I _r max. | 600 µA |
| Ripple max. (% of U _e) | 15 % |
| Switching frequency | 400 Hz |
| Utilization category | DC -13 |
| Voltage drop static max. | 4.2 V |

Environmental conditions

| | |
|-------------------------|---------------------------------|
| Ambient temperature | -25...70 °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 |
| Protection degree | IP67 |

Material

| | |
|--------------------------|--------------------|
| Housing material | Brass |
| Material sensing surface | PA 12 |
| Surface protection | Nickel-free coated |

Mechanical data

| | |
|-------------------|--------------------|
| Dimension | Ø 30 x 51 mm |
| Installation | for flush mounting |
| Size | M30x1.5 |
| Tightening torque | 70 Nm |

Output/Interface

| | |
|------------------|------------------------------|
| Switching output | polarized normally open (NO) |
|------------------|------------------------------|

Range/Distance

| | |
|----------------------------------|--------|
| Assured operating distance Sa | 12 mm |
| Hysteresis H max. (% of Sr) | 20.0 % |
| Rated operating distance Sn | 15 mm |
| Real switching distance sr | 15 mm |
| Repeat accuracy max. (% of Sr) | 5.0 % |
| Switching distance marking | ■ ■ |
| Temperature drift max. (% of Sr) | 10 % |
| Tolerance Sr | ±10 % |

Remarks

The sensor is functional again after the overload has been eliminated.
 Flush: See installation instructions for inductive sensors with extended range 825357.
 Specify maximum attainable switching frequency (not per IEC 60947-5-2)

Connector Drawings



Wiring Diagrams

