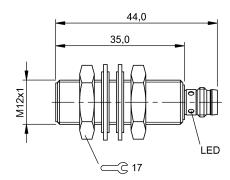
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Display/Operation

Function indicator yes Power indicator no

Electrical connection

Connection M8x1-Male, 3-pin Polarity reversal protected yes Protection against device mix-ups yes Short-circuit protection ves

Electrical data

Load capacitance max. at Ue 0.5 uF Min. operating current Im 0 mA No-load current lo max., damped 3 mA No-load current lo max., undamped 14 mA Operating voltage Ub 10...30 VDC Output resistance Ra 33.0 kOhm + D Rated insulation voltage Ui 75 V DC Rated operating current le 200 mA 24 V Rated operating voltage Ue DC Rated short circuit current 100 A Ready delay tv max. 20 ms 10 μΑ Residual current Ir max. Ripple max. (% of Ue) 15 % Switching frequency 2500 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 gn, 11 ms EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min IP rating IP67

Functional safety

MTTF (40 °C) 585 a

General data

Approval/Conformity CE cULus EAC WFFF **Basic standard** IEC 60947-5-2

Material

Housing material Brass LCP Material sensing surface Surface protection Nickel-free coated

Mechanical data

Dimension Ø 12 x 44 mm Installation for flush mounting Size M12x1 **Tightening torque** 10 Nm

Output/Interface

Switching output NPN normally closed (NC)

Inductive Sensors

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Range/Distance

 $\begin{array}{lll} \textbf{Assured operating distance Sa} & 3.2 \text{ mm} \\ \textbf{Hysteresis H max. (\% of Sr)} & 15.0 \% \\ \textbf{Rated operating distance Sn} & 4 \text{ mm} \\ \end{array}$

Real switching distance sr 4 mm

Repeat accuracy max. (% of Sr) 5.0 %

Switching distance marking

Temperature drift max. (% of Sr) 10 %

Tolerance Sr ±10 %

Remarks

Flush: See installation instructions for inductive sensors with extended range 825357.

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

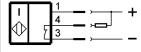
For further information about the MTTF and B10d see MTTF / B10d certificate

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.

Connector Drawings



Wiring Diagrams



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Subject to change without notice: 151126