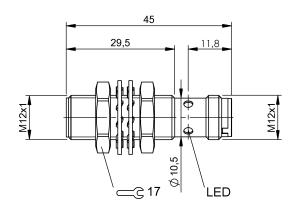
BALLUFF













Basic features

Approval/Conformity CE UKCA cULus WEEE Basic standard IEC 60947-5-2

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 1μF Min. operating current Im 0 mA No-load current lo max., damped 5 mA No-load current lo max., undamped 2 mA Operating voltage Ub 10...30 VDC Output resistance Ra 33.0 kOhm + D Protection class Rated insulation voltage Ui 250 V AC Rated operating current le 200 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 21 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 15% Switching frequency 3500 Hz Utilization category DC -13 Voltage drop static max. 1.5 V

Environmental conditions

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Ambient temperature -25...70 °C Contamination scale 3 EN 60068-2-27, Shock Half-sinus, 30 g_n, 11 ms 55 Hz, amplitude 1 mm, 3x30 min EN 60068-2-6, Vibration IP rating IP68 Functional safety MTTF (40 °C) 640 a Interface Switching output PNP normally open (NO)

Inductive Sensors

BES 516-325-E5-C-S4 Order Code: BES00PK



Material

Housing material Brass, Nickel-free coated

Material sensing surface

Mechanical data

Dimension Ø 12 x 45 mm Installation for flush mounting Mounting length 29.50 mm M12x1 Size Tightening torque 10 Nm

Range/Distance

Assured operating distance Sa 1.6 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn $2\,\text{mm}$ Real switching distance sr 2 mm Repeat accuracy max. (% of Sr) 5.0 % Temperature drift max. (% of Sr) 10 % Tolerance Sr ±10 %

Remarks

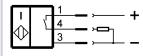
The sensor is functional again after the overload has been eliminated. For more information about MTTF and B10d see MTTF / B10d Certificate

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.

Connector Drawings



Wiring Diagrams (Schematic)



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