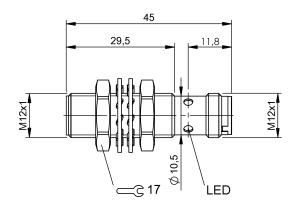
# BALLUFF













#### 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, 3-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 Ш 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 2500 Hz Utilization category DC -13 Voltage drop static max. 1.5 V

#### **Environmental conditions**

Switching output

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Ambient temperature -25...70 °C Contamination scale 3 EN 60068-2-27, Shock Half-sinus, 30 g<sub>n</sub>, 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

PNP normally open (NO)

## BES 516-325-G-E5-C-S4 Order Code: BES00PY



3.2 mm

±10 %

#### Material

Housing material Brass, Nickel-free coated

Material sensing surface

#### Mechanical data

Dimension Ø 12 x 45 mm Installation for flush mounting Mounting length 30.00 mm M12x1 Size Tightening torque 10 Nm

#### Range/Distance

Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn Real switching distance sr Repeat accuracy max. (% of Sr) Switching distance marking Temperature drift max. (% of Sr) Tolerance Sr

15.0 % 4 mm 4 mm 5.0 % 10 %

#### Remarks

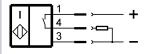
The sensor is functional again after the overload has been eliminated. For more information about MTTF and B10d see MTTF / B10d Certificate

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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