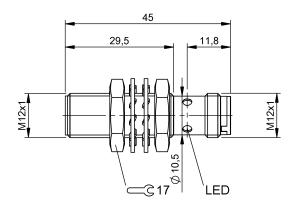
BES 516-370-E5-C-S4 **Order Code: BES00YT**















Basic features

Approval/Conformity

cULus EAC WEEE

CE

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 ves Protection against device mix-ups yes Short-circuit protection

Electrical data

Load capacitance max. at Ue $1 \, \mu F$ Min. operating current Im 0 mA No-load current lo max., damped 2 mA No-load current lo max., undamped 5 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

-25...70 °C Ambient temperature

Contamination scale 3

EN 60068-2-27, Shock Half-sinus, 30 g_n, 11 ms

EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min

IP rating IP68

Functional safety

MTTF (40 °C) 640 a

Interface

Switching output PNP normally closed (NC)

Inductive Sensors

BES 516-370-E5-C-S4 **Order Code: BES00YT**



Material

Housing material Brass, Nickel-free coated

Material sensing surface PBT

Mechanical data

Dimension Ø 12 x 45 mm Installation for flush mounting

Size M12x1 **Tightening torque**

Range/Distance

Assured operating distance Sa 1.6 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 2 mm Real switching distance sr 2 mm Repeat accuracy max. (% of Sr) Temperature drift max. (% of Sr) **Tolerance Sr**

10 Nm

Remarks

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

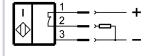
For more information about MTTF and B10d see MTTF / B10d Certificate

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



5.0 % 10 % ±10 %

eCl@ss 9.1: 27-27-01-01

ETIM 6.0: EC002714 BES00YT_0.6_2022-04-05