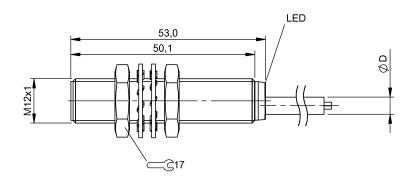
BES M12MI-NOC40B-BV02 **Order Code: BES03PT**







Trademark









Basic features

Approval/Conformity cULus CF EAC WEEE IEC 60947-5-2 Basic standard Global

Display/Operation

Function indicator yes Power indicator no

Electrical connection

Cable diameter D 4.60 mm Cable length L 2 m Conductor cross-section 0.34 mm² Cable, 2.00 m, PVC Connection type **Number of conductors** 3 Polarity reversal protected yes Protection against device mix-ups yes Short-circuit protection ves

Electrical data

Load capacitance max. at Ue $1 \, \mu F$ 0 mA Min. operating current Im 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 2500 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) 555 a

Interface

Switching output NPN normally closed (NC)

Inductive Sensors

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Material

Housing material Brass, Nickel-free coated

Material jacket PVC Material sensing surface PBT

Mechanical data

Dimension Ø 12 x 53 mm Installation for flush mounting

Size M12x1 **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**

±10 %

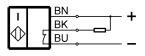
Remarks

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.

Wiring Diagrams



3.2 mm 15.0 % 4 mm 4 mm 5.0 % 10 %

2/2