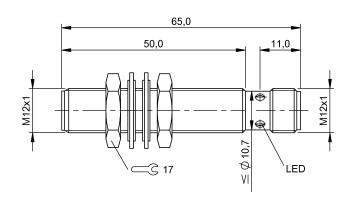
BES M12MI-PSH80B-S04G

Order Code: BES01ZN













Basic features

Approval/Conformity CE UKCA WEEE Basic standard IEC 60947-5-2 Principle of operation Inductive sensor Display/Operation Function indicator Power indicator no

Electrical connection

Connection M12x1-Male, 4-pin, A-coded Polarity reversal protected 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 12 mA No-load current lo max., undamped 8 mA Operating voltage Ub 10...55 VDC Output resistance Ra 100.0 kOhm + 2D Protection class П 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. 10 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 15% Switching frequency 300 Hz Utilization category DC -13 Voltage drop static max. 2.5 V

Environmental conditions

Switching output

Subject to change without notice: 183546

Ambient temperature 0...60 °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 IP67 Functional safety MTTF (40 °C) 355 a Interface

PNP normally open (NO)

BES M12MI-PSH80B-S04G Order Code: BES01ZN



Material

Housing materialBrass, nickel-platedMaterial sensing surfaceLCP

Mechanical data

 Dimension
 Ø 12 x 65 mm

 Installation
 quasi-flush

 Mounting length
 49.50 mm

 Size
 M12x1

 Tightening torque
 10 Nm

Range/Distance

Assured operating distance Sa 5.8 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 8 mm Real switching distance sr $8\,\text{mm}$ Repeat accuracy max. (% of Sr) 10.0 % Switching distance marking Temperature drift max. (% of Sr) 20 % Tolerance Sr ±10 %

Remarks

Quasi-flushed: See installation instructions for inductive sensors with extended range 825356.

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

UL-MARKINGS: - For use in NFPA 79 Applications only - Adapters providing field wiring means are available from the manufacturer. Refer to manufacturers information

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)

