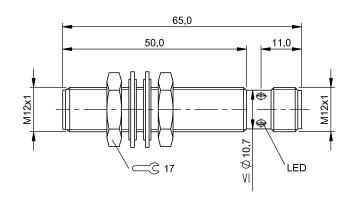
BES M12MI-PSH80B-S04G **Order Code: BES01ZN**







Basic features

Approval/Conformity CE UKCA WEEE

IEC 60947-5-2 Basic standard

Display/Operation

Function indicator yes Power indicator no

Electrical connection

Short-circuit protection

Connection M12x1-Male, 4-pin, A-coded Polarity reversal protected yes Protection against device mix-ups

yes

Electrical data

Load capacitance max. at Ue $1 \, \mu F$ 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

П

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. 10 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 15 % Switching frequency 300 Hz **Utilization category** DC -13

Environmental conditions

0...60 °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

2.5 V

IP rating IP67

Functional safety

Voltage drop static max.

MTTF (40 °C) 355 a

Interface

Switching output PNP normally open (NO)

Inductive Sensors

BES M12MI-PSH80B-S04G Order Code: BES01ZN



Material

Housing material Brass, nickel-plated

Material sensing surface LCP

Mechanical data

DimensionØ 12 x 65 mmInstallationquasi-flushSizeM12x1Tightening torque10 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 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

