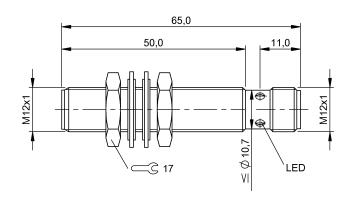
# BES M12MI-PSH80B-S04G **Order Code: BES01ZN**













### **Basic features**

Approval/Conformity CE UKCA WEEE

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 yes

Protection against device mix-ups Short-circuit protection 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

**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 2.5 V Voltage drop static max.

### **Environmental conditions**

0...60 °C Ambient temperature Contamination scale 3

EN 60068-2-27, Shock Half-sinus, 30 g<sub>n</sub>, 11 ms

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

IP rating IP67

### **Functional safety**

MTTF (40 °C) 355 a

### **Interface**

Switching output PNP normally open (NO)

### **Inductive Sensors**

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#### 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.

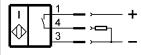
For more information about MTTF and B10d see MTTF / B10d Certificate

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**



Internet