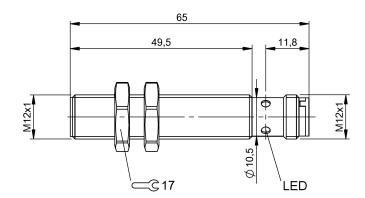
# BES M12MI-POC40B-S04G

**Order Code: BES005N** 















### **Basic features**

Approval/Conformity

CE

UKCA

cULus

WEEE

Basic standardIEC 60947-5-2TrademarkGlobal

#### 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 yes
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 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** 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. 21 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 15 % Switching frequency 2500 Hz **Utilization category** DC -13 1.5 V Voltage drop static max.

#### **Environmental conditions**

**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 IP68

### **Functional safety**

MTTF (40 °C) 640 a

#### Interface

Switching output PNP normally closed (NC)

#### **Inductive Sensors**

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3.2 mm

±10 %

#### Material

Housing material Brass, Nickel-free coated

Material sensing surface PBT

Mechanical data

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

15.0 %
4 mm
4 mm
5.0 %
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.

## **Connector Drawings**



# **Wiring Diagrams**

