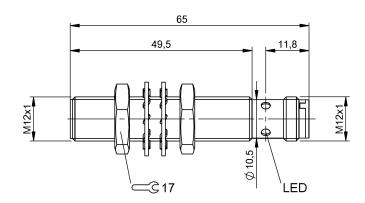
# BES M12MI-POC40B-S04G

**Order Code: BES005N** 







|    | -   |     |    |    |     |     |    |
|----|-----|-----|----|----|-----|-----|----|
| Ba | CI  | 0   | TO | 21 | 100 | 100 | 20 |
| -  | 131 | ١., | 15 | aн | ш   |     |    |

Approval/Conformity

CE

UKCA

cULus

EAC

WEEE

Basic standard

IEC 60947-5-2

Trademark

Global

### 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 Voltage drop static max. 1.5 V

#### **Environmental conditions**

Ambient temperature  $-25...70 \, ^{\circ}\text{C}$ Contamination scale 3EN 60068-2-27, Shock  $\text{Half-sinus, 30 g}_{\text{n}}, \text{ 11 ms}$ EN 60068-2-6, Vibration  $55 \, \text{Hz, amplitude 1 mm, 3x30 min}$ IP rating IP68Functional safety MTTF (40 °C)  $640 \, \text{a}$ Interface

PNP normally closed (NC)

Switching output

#### **Inductive Sensors**

# BES M12MI-POC40B-S04G **Order Code: BES005N**



10 %

±10 %

#### Material

Housing material Brass, Nickel-free coated PBT

Material sensing surface

### Mechanical data

Dimension Ø 12 x 65 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** 

3.2 mm 15.0 % 4 mm 4 mm 5.0 % 

#### 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**

