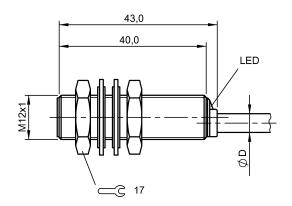
# BES M12MG-UOC30B-BV03

**Order Code: BES03HM** 











# **Basic features**

Approval/Conformity CE cULus EAC WEEE

IEC 60947-5-2 Basic standard Global Trademark

# Display/Operation

**Function indicator** yes Power indicator no

#### **Electrical connection**

Protection against device mix-ups

Short-circuit protection

Cable diameter D 4.60 mm Cable length L 3 m Conductor cross-section 0.34 mm<sup>2</sup> Cable, 3.00 m, PVC Connection type **Number of conductors** 2 Polarity reversal protected yes

yes

yes

#### **Electrical data**

Load capacitance max. at Ue  $1 \, \mu F$ Min. operating current Im 5 mA Operating voltage Ub 10...36 VDC 75 V DC Rated insulation voltage Ui Rated operating current le 100 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 50 ms Residual current Ir max. 600 μΑ Ripple max. (% of Ue) 15 % Switching frequency 1300 Hz DC -13 **Utilization category** Voltage drop static max. 5.3 V

### **Environmental conditions**

Ambient temperature -25...70 °C Contamination scale 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) 315 a

#### **Interface**

Switching output non-polarized normally closed (NC)

### **Inductive Sensors**

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#### Material

Housing material Brass, Nickel-free coated

Material jacket PVC
Material sensing surface PA 12

#### Mechanical data

**Dimension** Ø 12 x 43 mm **Installation** for flush mounting

Size M12x1
Tightening torque 15 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

10 % ±10 %

2.4 mm

20.0 %

3 mm

3 mm

5.0 %

#### Remarks

Specify maximum attainable switching frequency (not per IEC 60947-5-2)

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

Flush: See installation instructions for inductive sensors with extended range 825357.

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.

# **Wiring Diagrams**

