













### Basic features

Approval/Conformity cULus 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 yes Short-circuit protection yes

#### Electrical data

Load capacitance max. at Ue 0.5 µF Min. operating current Im 0 mA No-load current lo max., damped 3 mA No-load current lo max., undamped 10 mA Operating voltage Ub 10...30 VDC Output resistance Ra 33.0 kOhm + D Protection class Rated insulation voltage Ui 250 V AC Rated operating current le 200 mA 24 V Rated operating voltage Ue DC Rated short circuit current 100 A Ready delay tv max. 20 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 15% Switching frequency 1000 Hz Utilization category DC -13 Voltage drop static max. 2.5 V

# **Environmental conditions**

Ambient temperature -25...85 °C Contamination scale 3 EN 60068-2-27, Shock Half-sinus, 30 g<sub>n</sub>, 11 ms 55 Hz, amplitude 1 mm, 3x30 min EN 60068-2-6, Vibration IP rating IP68 Functional safety MTTF (40 °C) 830 a Interface Switching output PNP normally closed (NC)

# **Inductive Sensors**

# BES M12EI-POC40B-S04G Order Code: BES02FT



±10 %

#### Material

**Housing material** 1.4404 stainless steel

Material sensing surface LCP

#### Mechanical data

 Dimension
 Ø 12 x 65 mm

 Installation
 for flush mounting

 Mounting length
 50.00 mm

 Size
 M12x1

 Tightening torque
 12 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.

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.

# **Connector Drawings**



# Wiring Diagrams (Schematic)

