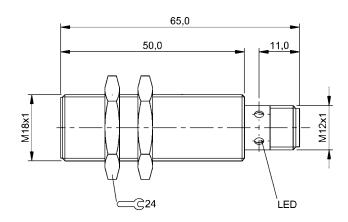
# BYLLUFF













#### Basic features

Approval/Conformity CE UKCA cULus 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 10 mA No-load current lo max., undamped 3 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 700 Hz Utilization category DC -13 Voltage drop static max. 2.5 V

#### **Environmental conditions**

Ambient temperature -40...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

Subject to change without notice: 290668

Switching output PNP normally open (NO)

# BES M18EI-PSC80B-S04G Order Code: BES02H0



±10 %

#### Material

**Housing material** Stainless steel, Ceramic

Material sensing surface

#### Mechanical data

 Dimension
 Ø 18 x 65 mm

 Installation
 for flush mounting

 Mounting length
 50.00 mm

 Size
 M18x1

 Tightening torque
 45 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 6.4 mm
15.0 %
8 mm
8 mm
5.0 %
••
10 %

#### Remarks

Flush: See installation instructions for inductive sensors with extended range 939221.

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

