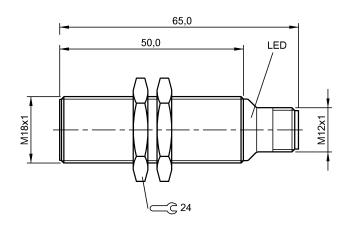
# BES M18MI-PSC50B-S04K

**Order Code: BES0087** 















### **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**

Short-circuit protection

Internet

Connection M12x1-Male, 4-pin, A-coded Polarity reversal protected yes Protection against device mix-ups

yes

# **Electrical data**

Load capacitance max. at Ue  $1 \, \mu F$ Min. operating current Im 0 mA No-load current lo max., damped 15 mA No-load current lo max., undamped 6 mA Operating voltage Ub 12...30 VDC Output resistance Ra 3.3 kOhm + D + LED

**Protection class** 

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. 30 ms Residual current Ir max. 20 μΑ Ripple max. (% of Ue) 15 % Switching frequency 700 Hz **Utilization category** DC -13 2.5 V Voltage drop static max.

#### **Environmental conditions**

-25...70 °C Ambient temperature Contamination scale 3

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) 710 a

#### **Interface**

Switching output PNP normally open (NO)

#### **Inductive Sensors**

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#### Material

Housing material Brass, nickel-plated

Material sensing surface PA 12

### Mechanical data

Dimension Ø 18 x 65 mm Installation for flush mounting Size M18x1

**Tightening torque** 35 Nm

# Range/Distance

Assured operating distance Sa 4 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 5 mm Real switching distance sr Repeat accuracy max. (% of Sr) Temperature drift max. (% of Sr) **Tolerance Sr** 

±10 %

#### Remarks

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

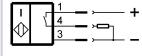
For more information about MTTF and B10d see MTTF / B10d Certificate

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**



5 mm 5.0 % 10 %

eCl@ss 9.1: