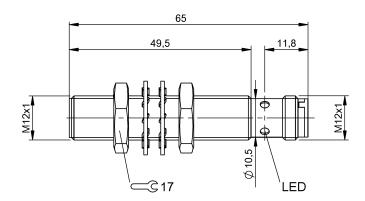
# BES M12MI-PSC20B-S04G

**Order Code: BES0060** 







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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 ves Protection against device mix-ups yes Short-circuit protection

### **Electrical data**

Load capacitance max. at Ue  $1 \, \mu F$ Min. operating current Im 0 mA No-load current lo max., damped 5 mA No-load current lo max., undamped 2 mA Operating voltage Ub 10...30 VDC Output resistance Ra 33.0 kOhm + D **Protection class** Ш 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 3500 Hz **Utilization category** DC -13 Voltage drop static max. 1.5 V

### **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) 640 a **Interface** 

PNP normally open (NO)

Switching output

### **Inductive Sensors**

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### Material

Housing material Brass, Nickel-free coated

Material sensing surface PBT

Mechanical data

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)
Temperature drift max. (% of Sr)
Tolerance Sr

2 mm 5.0 % 10 % ±10 %

1.6 mm

15.0 %

2 mm

#### Remarks

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

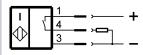
For more information about MTTF and B10d see MTTF / B10d Certificate

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**



2/2

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