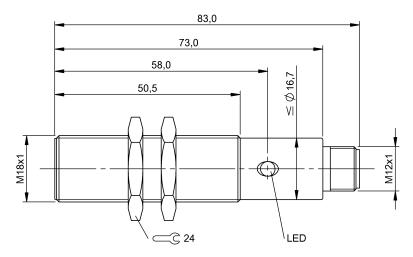
# BES M18MI2-PSC80B-S04G **Order Code: BES0496**















#### **Basic features**

Approval/Conformity

CE cULus EAC WEEE

Basic standard

IEC 60947-5-2

#### Display/Operation

**Function indicator** yes Power indicator

### **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  $0.5~\mu\text{F}$ Min. operating current Im 0 mA No-load current lo max., damped 15 mA No-load current lo max., undamped 5 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 Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 15 ms Residual current Ir max. 20 μΑ Ripple max. (% of Ue) 15 % Switching frequency 1000 Hz **Utilization category** DC -13 2.5 V Voltage drop static max.

#### **Environmental conditions**

-25...70 °C Ambient temperature

Contamination scale

EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms

EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min

Protection degree IP68

#### **Functional** safety

Subject to change without notice: 224081

MTTF (40 °C) 850 a

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#### Material

Housing material Brass Material sensing surface PBT

Surface protection Nickel-free coated

#### Mechanical data

Dimension Ø 18 x 83 mm Installation for flush mounting M18x1 Size **Tightening torque** 25 Nm

#### Output/Interface

PNP normally open (NO)

Range/Distance Assured operating distance Sa 6.4 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 8 mm Real switching distance sr 8 mm Repeat accuracy max. (% of Sr) 5.0 % Switching distance marking Temperature drift max. (% of Sr) 10 % **Tolerance Sr** ±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

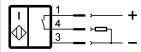
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

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# **Connector Drawings**



# **Wiring Diagrams**



Switching output

2/2