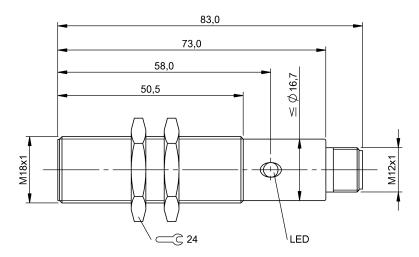
# BES M18MI2-PSC80B-S04G

**Order Code: BES0496** 















### **Basic features**

Basic standard

Approval/Conformity CE UKCA cULus

WEEE IEC 60947-5-2

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  $0.5~\mu\text{F}$ 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 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) 850 a

**Interface** 

Subject to change without notice: 290672

Switching output PNP normally open (NO)

### **Inductive Sensors**

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



±10 %

### Material

Housing material Brass, Nickel-free coated

Material sensing surface PBT

Mechanical data

Size M18x1 Tightening torque 25 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 %

#### Remarks

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

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

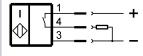
For more information about MTTF and B10d see MTTF / B10d Certificate

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**



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