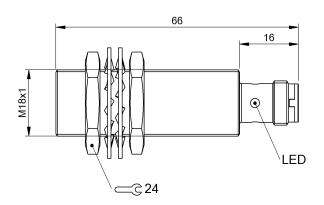
# BES M18MI-PSC12B-S04G

**Order Code: BES05EU** 







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Approval/Conformity CE UKCA cULus EAC WEEE

Basic standard IEC 60947-5-2

Display/Operation

**Function indicator** yes Power indicator no

**Electrical connection** 

Connection M12x1-Male, 3-pin, A-coded Polarity reversal protected yes Protection against device mix-ups yes Short-circuit protection ves

#### Electrical data

Load capacitance max. at Ue  $1 \, \mu F$ Min. operating current Im 0 mA No-load current lo max., damped 11 mA No-load current lo max., undamped 7 mA Operating voltage Ub 10...30 VDC Output resistance Ra 100.0 kOhm **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. 40 ms Residual current Ir max. 100 μΑ Ripple max. (% of Ue) 10 % Switching frequency 550 Hz **Utilization category** DC -13 1.2 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, according to BWN Pr 20

**Functional safety** 

MTTF (40 °C) 621 a

**Interface** 

Switching output PNP normally open (NO)

### **Inductive Sensors**

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#### Material

Housing material Brass, Nickel-free coated

Material sensing surface PBT

## Mechanical data

 Dimension
 Ø 18 x 66 mm

 Size
 M18x1

 Tightening torque
 25 Nm

## Range/Distance

Assured operating distance Sa 9.6 mm Hysteresis H max. (% of Sr) 15 % Rated operating distance Sn 12 mm Real switching distance sr 12 mm Repeat accuracy max. (% of Sr) 5.0 % Switching distance marking Temperature drift max. (% of Sr) 10 % **Tolerance Sr** ±10 %

#### Remarks

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

Quasi-flushed: See installation instructions for inductive sensors with extended range 825356.

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**

