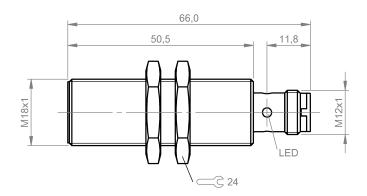
# BES M18MI-NSC80B-S04G

**Order Code: BES007L** 















### **Basic features**

Approval/Conformity CE UKCA cULus WEEE IEC 60947-5-2 Basic standard Trademark Global

### 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 Short-circuit protection yes

### **Electrical data**

Load capacitance max. at Ue  $0.5~\mu\text{F}$ Min. operating current Im 0 mA No-load current lo max., damped 8 mA No-load current lo max., undamped 2 mA Operating voltage Ub 10...30 VDC Output resistance Ra 33.0 kOhm + D **Protection class** П 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. 10 μΑ Ripple max. (% of Ue) 15 % Switching frequency 1300 Hz **Utilization category** DC -13 2.5 V Voltage drop static max.

### **Environmental conditions**

-40...85 °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) 411 a

### **Interface**

Subject to change without notice: 253239

Switching output NPN 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 Installation for flush mounting

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 % 8.0 mm 8 mm 5.0 %

±10 %

15 %

#### Remarks

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

Flush: See installation instructions for inductive sensors with extended range 825357.

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**

