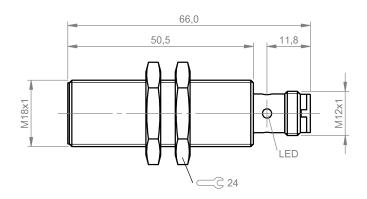
# BES M18MI-NSC80B-S04G

**Order Code: BES007L** 







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

#### **Electrical data**

Load capacitance max. at Ue  $0.5~\mu\text{F}$ 0 mA Min. operating current Im 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**

Ambient temperature -40...85 °C Contamination scale 3 Half-sinus, 30  $g_n$ , 11 ms EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min IP rating IP68 Functional safety 411 a Interface

NPN normally open (NO)

Switching output

### **Inductive Sensors**

# BES M18MI-NSC80B-S04G **Order Code: BES007L**



#### Material

Housing material Brass, Nickel-free coated PBT

Material sensing surface

## 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 %

15 % ±10 %

#### 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**

