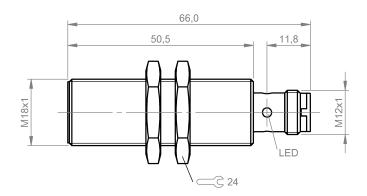
BES M18MI-NSC80B-S04G

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_n, 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

Switching output NPN normally open (NO)

Inductive Sensors

BES M18MI-NSC80B-S04G Order Code: BES007L



Material

Housing material Brass, Nickel-free coated

Material sensing surface PBT

Mechanical data

DimensionØ 18 x 66 mmInstallationfor 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

