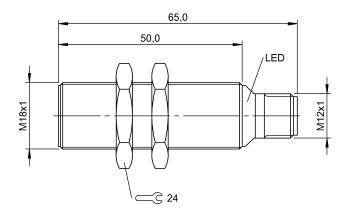
BES M18MI-PSC80B-S04K **Order Code: BES008M**









Basic features

Approval/Conformity CE

cULus EAC WEEE

IEC 60947-5-2 Basic standard Global Trademark

Display/Operation

Function indicator Power indicator no

Electrical connection

Connection M12x1-Male, 4-pin, A-coded

Polarity reversal protected yes Protection against device mix-ups Short-circuit protection yes

Electrical data

Load capacitance max. at Ue $1 \, \mu F$ Min. operating current Im 0 mA No-load current lo max., damped 15 mA No-load current lo max., undamped 8 mA Operating voltage Ub 12...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. 30 ms Residual current Ir max. 20 μΑ Ripple max. (% of Ue) 15 % Switching frequency 150 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 gn, 11 ms

EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min

Protection degree IP68

Functional safety

MTTF (40 °C) 330 a

eCl@ss 9.1: 27-27-01-01

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Material

Housing materialBrassMaterial sensing surfacePA 12Surface protectionnickel plated

Mechanical data

Dimension Ø 18 x 65 mm
Installation for flush mounting
Size M18x1
Tightening torque 25 Nm

Output/Interface

Switching output PNP normally open (NO) Range/Distance Assured operating distance Sa 6.4 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 8 mm Real switching distance sr 8 mm Repeat accuracy max. (% of Sr) 5.0 % Switching distance marking Temperature drift max. (% of Sr) 10 % **Tolerance Sr** ±10 %

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

