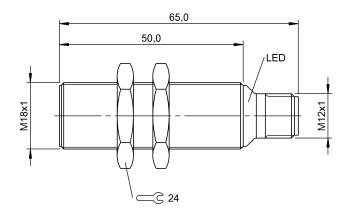
BES M18MI-PSC80B-S04K **Order Code: BES008M**















Basic features

Approval/Conformity CE cULus EAC WEEE

IEC 60947-5-2 Basic standard Global Trademark

Display/Operation

Function indicator yes 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 % 150 Hz Switching frequency **Utilization category** DC -13

Environmental conditions

-25...70 °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

2.5 V

IP rating IP68

Functional safety

Voltage drop static max.

MTTF (40 °C) 330 a

Interface

Switching output PNP normally open (NO)

Internet

Inductive Sensors

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



10 %

±10 %

Material

Housing material Brass, nickel-plated PA 12

Material sensing surface

Mechanical data

Dimension Ø 18 x 65 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 mm 8 mm 5.0 %

Remarks

Flush: See installation instructions for inductive sensors with extended range 939221.

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

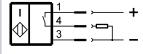
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Internet