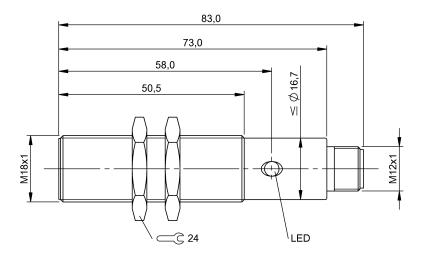
BES M18MI2-PSC80B-S04G

Order Code: BES0496

















Basic features

Approval/Conformity CE UKCA cULus EAC WEEE

Basic standard IEC 60947-5-2

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 yes Short-circuit protection ves

Electrical data

Load capacitance max. at Ue $0.5~\mu\text{F}$ Min. operating current Im 0 mA No-load current lo max., damped 15 mA No-load current lo max., undamped 5 mA Operating voltage Ub 10...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. 15 ms Residual current Ir max. 20 μΑ Ripple max. (% of Ue) 15 % Switching frequency 1000 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 g_n, 11 ms

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

IP rating IP68

Functional safety

MTTF (40 °C) 850 a

Interface

Switching output PNP normally open (NO)

Inductive Sensors

BES M18MI2-PSC80B-S04G Order Code: BES0496



10 %

±10 %

Material

Housing material Brass, Nickel-free coated

Material sensing surface PBT

Mechanical data

DimensionØ 18 x 83 mmInstallationfor flush mountingSizeM18x1

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

