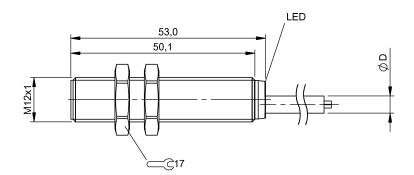
BES M12MI-PSC40B-BV03

Order Code: BES0001







Trademark







Global

4 70 mm

Basic features

Approval/Conformity
CE
cULus
WEEE

Basic standard
IEC 60947-5-2

Display/Operation

Function indicator yes

Power indicator no

Electrical connection

Cable diameter D

Cable length L 3 m
Conductor cross-section 0.34 mm²
Connection type Cable, 3.00 m, PVC
Number of conductors 3
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 5 mA No-load current lo max., undamped 2 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. 21 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 15 % Switching frequency 2500 Hz **Utilization category** DC -13 Voltage drop static max. 1.5 V

Environmental conditions

Ambient temperature -25...70 °C

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) 640 a

Interface

interrace

Switching output PNP normally open (NO)

Inductive Sensors

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Material

Housing material Brass, Nickel-free coated

Material jacket PVC

PBT

Material sensing surface

Mechanical data

Dimension Ø 12 x 53 mm **Installation** for flush mounting

Size M12x1
Tightening torque 10 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 3.2 mm 15.0 % 4 mm 4 mm 5.0 %

10 % ±10 %

Remarks

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.

Wiring Diagrams

