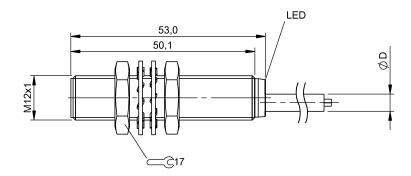
BES M12MI-PSC40B-BV03 Order Code: BES0001











81U2 Class 2 Type 1

Basic features

Approval/Conformity CE

cULus EAC WEEE

IEC 60947-5-2 Basic standard Global Trademark

Display/Operation

Function indicator yes Power indicator

Electrical connection

Cable diameter D 4.70 mm 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 yes 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

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

DC -13

1.5 V

Protection degree IP68

Functional safety

Subject to change without notice: 219350

Utilization category

Voltage drop static max.

MTTF (40 °C) 640 a

BES M12MI-PSC40B-BV03 Order Code: BES0001



Material

Housing materialBrassMaterial jacketPVCMaterial sensing surfacePBT

Surface protection Nickel-free coated

Mechanical data

DimensionØ 12 x 53 mmInstallationfor flush mountingSizeM12x1Tightening torque10 Nm

Output/Interface

Switching output	PNP normally open (NO)
Range/Distance	
Assured operating distance Sa	3.2 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	4 mm
Real switching distance sr	4 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±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

