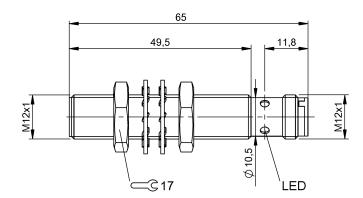
BES M12MI-PSC40B-S04G **Order Code: BES0068**















Basic features

Approval/Conformity

CE cULus EAC WEEE

Basic standard Trademark

IEC 60947-5-2 Global

Display/Operation

Function indicator yes Power indicator no

Electrical connection

Connection M12x1-Male, 3-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 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** Ш

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 15 % Ripple max. (% of Ue) Switching frequency 2500 Hz **Utilization category** DC -13 Voltage drop static max. 1.5 V

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

IP rating IP68

Functional safety

MTTF (40 °C) 640 a

BES M12MI-PSC40B-S04G **Order Code: BES0068**



Material

Housing material Brass, Nickel-free coated Material sensing surface PBT

Mechanical data

Dimension Ø 12 x 65 mm Installation for flush mounting Size M12x1 **Tightening torque** 10 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

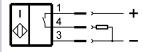
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Subject to change without notice: 265936

Connector Drawings



Wiring Diagrams



2/2