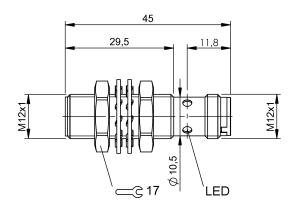
# BES M12MD1-PSC60B-S04G

Order Code: BES02WM













#### Basic features

Approval/Conformity CE cULus WEEE Basic standard IEC 60947-5-2

#### 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 yes Short-circuit protection yes

#### Electrical data

Load capacitance max. at Ue 1.5 µF Min. operating current Im 0 mA No-load current lo max., damped 11 mA No-load current lo max., undamped 7 mA Operating voltage Ub 10...30 VDC Output resistance Ra 47.0 kOhm 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. 35 ms Residual current Ir max. 100 μΑ Ripple max. (% of Ue) 15% Switching frequency 1000 Hz Utilization category DC -13 Voltage drop static max. 1.3 V

#### **Environmental conditions**

Switching output

Subject to change without notice: 251409

Ambient temperature -25...85 °C Contamination scale 3 EN 60068-2-27, Shock Half-sinus, 30 g<sub>n</sub>, 11 ms EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min IP rating IP68, according to BWN Pr 20 Functional safety MTTF (40 °C) 625 a Interface

1/2

PNP normally open (NO)

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4.8 mm

15.0 %

#### Material

Housing material Brass, Nickel-free coated

Material sensing surface PB

#### Mechanical data

DimensionØ 12 x 45 mmInstallationquasi-flushMounting length29.50 mmSizeM12x1Tightening torque10 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 mm
6 mm
5.0 %
•••
10 %
±10 %

#### Remarks

Quasi-flushed: See installation instructions for inductive sensors with extended range 825356.

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 (Schematic)

