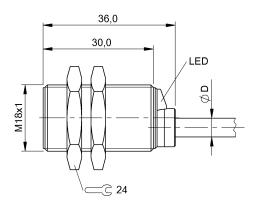
# BES M18MD-PSC80B-BP02-003

**Order Code: BES00EP** 











### **Basic features**

Approval/Conformity cULus CF EAC WEEE

IEC 60947-5-2 Basic standard Global Trademark

#### Display/Operation

**Function indicator** yes Power indicator

#### **Electrical connection**

Cable diameter D 4.60 mm Cable length L 2 m Conductor cross-section 0.34 mm<sup>2</sup> Cable, 2.00 m, PUR Connection type **Number of conductors** 3

Polarity reversal protected yes Protection against device mix-ups yes Short-circuit protection ves

#### Electrical data

Ripple max. (% of Ue)

Switching frequency

**Utilization category** 

Voltage drop static max.

Load capacitance max. at Ue  $1 \, \mu F$ Min. operating current Im 0 mA No-load current lo max., damped 25 mA No-load current lo max., undamped 12 mA Operating voltage Ub 10...30 VDC **Output resistance Ra** 2.0 kOhm + D + LED Rated insulation voltage Ui 75 V DC Rated operating current le 130 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A 10 ms Ready delay tv max. Residual current Ir max. 80 μΑ 15 %

#### **Environmental conditions**

-25...70 °C Ambient temperature 3 Contamination scale

EN 60068-2-27, Shock Half-sinus, 30  $g_n$ , 11 ms

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

150 Hz

DC -13

3.8 V

IP rating IP67

#### **Functional** safety

MTTF (40 °C) 1620 a

## **Interface**

Subject to change without notice: 237630

Switching output PNP normally open (NO)

#### **Inductive Sensors**

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#### Material

Housing material Brass, nickel plated

Material jacketPURMaterial sensing surfacePBT

#### Mechanical data

DimensionØ 18 x 36 mmInstallationfor flush mounting

Size M18x1 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 %

10 %
±10 %

#### Remarks

Flush: See installation instructions for inductive sensors with extended range 825357.

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**

