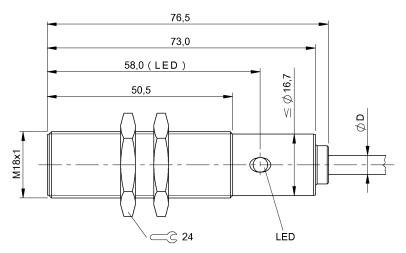
# BES M18MI1-PSC80B-BP02

Order Code: BES04AM















Basic featu	ires

Approval/Conformity CE
UKCA
cULus
WEEE

Basic standard IEC 60947-5-2

Display/Operation

**Function indicator** yes **Power indicator** no

Electrical connection

Cable diameter D 4.60 mm

Cable length L 2 m

Conductor cross-section 0.34 mm²

Connection type Cable, 2.00 m, PUR

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 0.5 µF Min. operating current Im 0 mA No-load current lo max., damped 15 mA No-load current lo max., undamped 5 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. 15 ms Residual current Ir max. 20 μΑ Ripple max. (% of Ue) 15% Switching frequency 1000 Hz Utilization category DC -13 Voltage drop static max. 2.5 V

#### **Environmental conditions**

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 IP67, at the sensing surface

#### Functional safety

MTTF (40 °C) 850 a

Interface

Switching output PNP normally open (NO)

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#### Material

Housing material Brass, Nickel-free coated

Material jacketPURMaterial sensing surfacePBT/PA 12

#### Mechanical data

 Dimension
 Ø 18 x 76.5 mm

 Installation
 for flush mounting

 Mounting length
 50.50 mm

 Size
 M18x1

 Tightening torque
 25 Nm

#### Range/Distance

Assured operating distance Sa 6.4 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 8 mm Real switching distance sr 8 mm Repeat accuracy max. (% of Sr) 5.0 % Switching distance marking Temperature drift max. (% of Sr) 10 % Tolerance Sr ±10 %

#### Remarks

Flush: See installation instructions for inductive sensors with extended range 939221.

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

