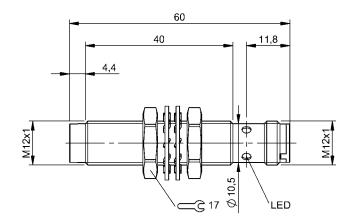
# BES M12MF1-PSC12F-S04G

Order Code: BES05KF















### Basic features

Approval/Conformity cULus CE UKCA 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 120 Hz Utilization category DC -13 Voltage drop static max. 1.3 V

### **Environmental conditions**

Ambient temperature -25...70 °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

Switching output PNP normally open (NO)

### **Inductive Sensors**

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15%

±10 %

### Material

**Housing material** Brass, Nickel-free coated

Material sensing surface PB

### Mechanical data

 Dimension
 Ø 12 x 60 mm

 Installation
 non-flush

 Mounting length
 40 mm

 Size
 M12x1

 Tightening torque
 10 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 9.2 mm 20 % 12 mm 12 mm 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.

## **Connector Drawings**



### Wiring Diagrams

