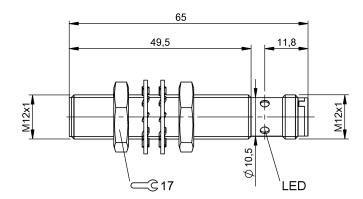
# BES M12MI-PSC20B-S04G Order Code: BES0060















### Display/Operation

**Function indicator** yes Power indicator no

#### **Electrical connection**

Connection M12x1-Male, 4-pin, A-coded Polarity reversal protected yes Protection against device mix-ups yes Short-circuit protection ves

#### **Electrical data**

Load capacitance max. at Ue 1 uF Min. operating current Im 0 mA No-load current lo max., damped 5 mA No-load current lo max., undamped 2 mA 10...30 VDC Operating voltage Ub 33.0 kOhm + D Output resistance Ra Protection class Rated insulation voltage Ui 250 V AC 200 mA Rated operating current le 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 Ripple max. (% of Ue) 15 % Switching frequency 3500 Hz **Utilization category** DC -13 Voltage drop static max. 1.5 V

### **Environmental conditions**

Ambient temperature -25...70 °C 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

#### General data

Approval/Conformity CE cULus EAC WFFF IEC 60947-5-2 **Basic standard** Trademark Global

# Material

Housing material Brass Material sensing surface PBT Surface protection Nickel-free coated

### Mechanical data

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

#### **Inductive Sensors**

# BES M12MI-PSC20B-S04G **Order Code: BES0060**



## Output/Interface

Switching output

PNP normally open (NO)

## Range/Distance

1.6 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 2 mm Real switching distance sr 2 mm Repeat accuracy max. (% of Sr) 5.0 % Temperature drift max. (% of Sr) 10 % **Tolerance Sr** ±10 %

#### Remarks

The sensor is functional again after the overload has been eliminated.

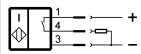
For further information about the MTTF and B10d see MTTF / B10d certificate

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**



Assured operating distance Sa

2/2