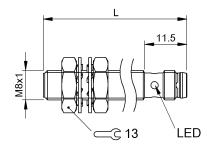
BES M08MI-PSC20B-S49G Order Code: BES003P















Basic features

Approval/Conformity

CE

WEEE

Basic standard

IEC 60947-5-2

Trademark

Global

Display/Operation

Function indicator yes
Power indicator no

Electrical connection

 Connection
 M8x1-Male, 3-pin

 Polarity reversal protected
 yes

 Protection against device mix-ups
 yes

 Short-circuit protection
 yes

Electrical data

Load capacitance max. at Ue $1 \, \mu F$ No-load current lo max., damped 7 mA No-load current lo max., undamped 2 mA Operating voltage Ub 10...30 VDC Output resistance Ra 33.0 kOhm **Protection class** 250 V AC Rated insulation voltage Ui 200 mA Rated operating current le Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 25 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 10 % 5000 Hz Switching frequency **Utilization category** DC -13 Voltage drop static max. 2.5 V

Environmental conditions

Ambient temperature $-25...70 \, ^{\circ}\text{C}$ Contamination scale 3

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

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

IP rating IP68

Functional safety

MTTF (40 °C) 595 a

Interface

Switching output PNP normally open (NO)

Inductive Sensors

BES M08MI-PSC20B-S49G **Order Code: BES003P**



Material

Housing material Brass, Nickel-free coated

Material sensing surface PBT

Mechanical data

Dimension Ø 8 x 60 mm Installation for flush mounting Size M8x1

Tightening torque 3 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**

15.0 % 2 mm 2 mm 5.0 % 10 %

Remarks

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

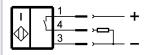
For more information about MTTF and B10d see MTTF / B10d Certificate

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



1.6 mm

±10 %

Subject to change without notice: 246401