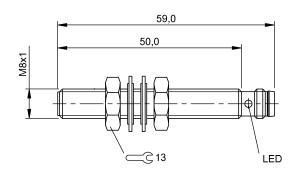
# BES M08MI-PSC20B-S49G

Order Code: BES003P















#### Basic features

Approval/Conformity  Basic standard	cULus CE WEEE IEC 60947-5-2
Principle of operation	Inductive sensor
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 μF
No-load current lo max., damped	7 mA
No-load current Io max., undamped	2 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm
Protection class	II
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.	25 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	10 %
Switching frequency	5000 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

#### **Environmental conditions**

-2570 °C
3
Half-sinus, 30 g <sub>n</sub> , 11 ms
55 Hz, amplitude 1 mm, 3x30 min
IP68
595 a

PNP normally open (NO)

Switching output

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1.6 mm

±10 %

#### Material

Housing material Brass, Nickel-free coated

Material sensing surface

#### Mechanical data

Dimension Ø 8 x 60 mm Installation for flush mounting

Mounting length 48 mm M8x1 Size 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 %  $2\,\text{mm}$ 2 mm 5.0 % 10 %

#### Remarks

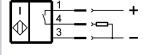
The sensor is functional again after the overload has been eliminated. For more information about MTTF and B10d see MTTF / B10d Certificate

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 (Schematic)



Subject to change without notice: 246401