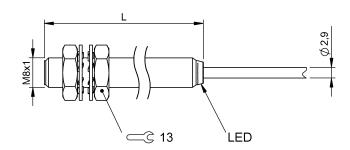
BES M08MI-PSC20B-BV03

Order Code: BES003L













Basic features

Approval/Conformity	CE
	cULus
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Inductive sensor
Trademark	Global

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	3.00 mm
Cable length L	3 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 3.00 m, PVC
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	1 μF
No-load current lo max., damped	7 mA
No-load current lo 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

Functional safety	
IP rating	IP68
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
Contamination scale	3
Ambient temperature	-2570 °C

Interface

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Switching output PNP normally open (NO) **Inductive Sensors**

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Material

Housing material Brass, Nickel-free coated

PVC Material jacket Material sensing surface PBT

Mechanical data

Dimension Ø 8 x 50 mm Installation for flush mounting

Mounting length 48 mm 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

5.0 % 10 %

±10 %

1.6 mm

15.0 %

 $2\,\text{mm}$

2 mm

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.

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Wiring Diagrams (Schematic)

