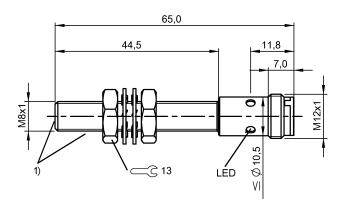
Inductive Sensors BES M08EH1-PSC20B-S04G-S Order Code: BES02N5





1) Pressure resistant area



Basic features

Function indicator	yes
Display/Operation	
Basic standard	IEC 60947-5-2
	WEEE
	EAC
	cULus
Approval/Conformity	CE

Electrical connection

Power indicator

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

no

Electrical data

Load capacitance max. at Ue	1 μF
Min. operating current Im	0 mA
No-load current lo max., damped	12 mA
No-load current lo max., undamped	12 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm
Rated insulation voltage Ui	75 V DC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	20 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	10 %
Switching frequency	750 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-2570 °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	IP67

Functional safety

MTTF (40 °C)

330 a

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1.6 mm

15.0 % 2 mm 2 mm

5.0 %

10 % ±10 %

Interface		Range/Distance
Switching output Material	PNP normally open (NO)	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
Housing material Material sensing surface Mechanical data	Stainless steel Stainless steel	
Dimension Installation Pressure rating max. Pressure rating, note Size Tightening torque	Ø 8 x 65 mm for flush mounting 80 bar Pressure-resistant M8x1 8 Nm ±10 %	

Remarks

EMC: Surge resistance

External protection circuit is required. Document 825345, Section 2.

When installing in non-ferromagnetic metals, the distance x must be considered. This dimension x is described in the document "BES 2SN STEELFACE". Since the nuts supplied are made of non-ferromagnetic metal, the specified dimension x also applies here. Mounting, where the nuts are close to the active surface, is not intended.

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

