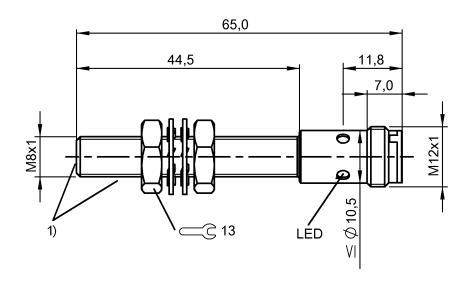
BES M08EH1-PSC20B-S04G-S01 Order Code: BES02N6





1) Pressure resistant area







IND. CONT. EQ. 81U2 Class 2 Type 1



Basic features

Additional features	Housing resistant to weld spatter
Approval/Conformity	CE
	cULus
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
	,

yes

yes

Electrical data

Load capacitance max. at Ue	0.5 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 + D
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 μΑ
Ripple max. (% of Ue)	10 %
Switching frequency	750 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Protection against device mix-ups

Short-circuit protection

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Environmental conditions

-25...70 °C Ambient temperature 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

Protection degree IP67

Functional safety

MTTF (40 °C) 330 a

Material

Housing material Stainless steel Material sensing surface Stainless steel, coated

Surface protection PTFE coated Mechanical data

Dimension Ø 8 x 65 mm Installation for flush mounting

Pressure rating max. 80 bar

Pressure rating, note Pressure-resistant M8x1

Tightening torque 6 Nm ±10 %

Output/Interface

Switching output PNP normally open (NO)

Range/Distance

Assured operating distance Sa 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 % Switching distance marking Temperature drift max. (% of Sr) 10 % **Tolerance Sr** ±10 %

Remarks

EMC: Surge resistance

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

When installing in metal see Installation Instructions 939232.

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

