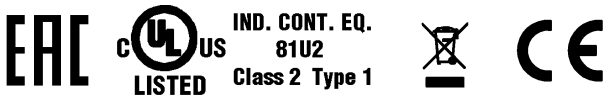


1) Pressure resistant area



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
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.5 μ F
Min. operating current I _m	0 mA
No-load current I ₀ max., damped	12 mA
No-load current I ₀ max., undamped	12 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	33.0 kOhm + D
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	20 ms
Residual current I _r max.	10 μ A
Ripple max. (% of U _e)	10 %
Switching frequency	750 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

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



Environmental conditions

Ambient temperature	-25...70 °C
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
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Material

Housing material	Stainless steel, PTFE coated
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
Size	M8x1
Tightening torque	6 Nm ±10 %

Output/Interface

Switching output	PNP normally open (NO)
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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

