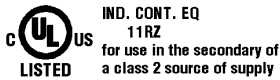


1) Pressure resistant area



Basic features

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 U_e	1 μ F
Min. operating current I_m	0 mA
No-load current I_o max., damped	16 mA
No-load current I_o max., undamped	9 mA
Operating voltage U_b	10...30 VDC
Output resistance R_a	47.0 kOhm
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.	35 ms
Residual current I_r max.	100 μ A
Ripple max. (% of U_e)	15 %
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

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)	340 a
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Inductive Sensors
BES M30EG1-PSC20Z-S04G-S11
 Order Code: BES02YF



Material

Housing material	Stainless steel
Material sensing surface	Stainless steel (1.4305)

Mechanical data

Dimension	Ø 30 x 63.5 mm
Installation	for flush mounting
Pressure rating max.	40 bar
Pressure rating, note	Pressure-resistant
Size	M30x1.5
Tightening torque	80 Nm ±10 %

Output/Interface

Switching output	PNP normally open (NO)
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Range/Distance

Assured operating distance Sa	16 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	20 mm
Real switching distance sr	20 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

The sensor is functional again after the overload has been eliminated.
 When installing in metals the switching distance may be reduced by up to 50%. Installation Instructions 841020.
 LED flashes between 100% and approx. 70% of Sr
 Installation permitted only in clamp without positive stop.
 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

