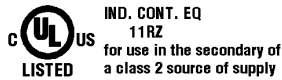


1) Pressure resistant area



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	12 mA
No-load current I_o max., undamped	12 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.	10 ms
Residual current I_r max.	100 μ A
Ripple max. (% of U_e)	20 %
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

Material

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

Inductive Sensors
BES M30EE1-PSC40F-S04G-S
Order Code: BES02YC



Mechanical data

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

Range/Distance

Assured operating distance Sa	32 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	40 mm
Real switching distance sr	40 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■■■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Output/Interface

Switching output	PNP normally open (NO)
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Remarks

The sensor is functional again after the overload has been eliminated.
 Installation permitted only in clamp without positive stop.
 When installing in metal see Installation Instructions 939231.
 LED flashes between 100% and approx. 70% of Sr

Connector Drawings



Wiring Diagrams

