



1) Pressure resistant area



Basic features

Approval/Conformity	CE 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

Material

Housing material	Stainless steel (1.4305)
Material sensing surface	Stainless steel (1.4305)
Surface protection	PTFE coated

Inductive Sensors
BES M30EG1-PSC20Z-S04G-S12
 Order Code: BES03JK



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 %

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 %

Output/Interface

Switching output	PNP normally open (NO)
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Remarks

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

Connector Drawings



Wiring Diagrams

