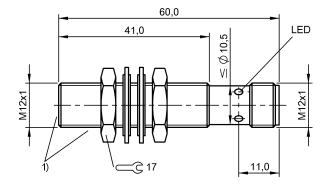
Inductive Sensors BES M12EG1-NSC60Z-S04G-S11 Order Code: BES02WF

BALLUFF



1) Pressure resistant area



Basic features

Function indicator	yes
Display/Operation	
Basic standard	IEC 60947-5-2
	WEEE
	EAC
	cULus
Approval/Conformity	CE

Electrical connection

Power indicator

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

no

Electrical data

Load capacitance max. at Ue	1μF
Min. operating current Im	0 mA
No-load current lo max., damped	16 mA
No-load current lo max., undamped	9 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	47.0 kOhm
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.	60 ms
Residual current Ir max.	100 µA
Ripple max. (% of Ue)	15 %
Switching frequency	400 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Functional safety

MTTF (40 °C)

335 a

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111011000	
Switching output	NPN normally open (NO)
Material	
Housing material	Stainless steel
Material sensing surface	Stainless steel
Mechanical data	
Dimension	Ø 12 x 60 mm
Installation	quasi-flush
Pressure rating max.	80 bar
Pressure rating, note	Pressure-resistant
Size	M12x1
Tightening torque	10 Nm ±10 %

Rang	e/Dis	stance
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Assured operating distance Sa	4.9 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	6 mm
Real switching distance sr	6 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.

Installation permitted only in clamp without positive stop.

LED flashes between 100% and approx. 70% of Sr $\,$

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

