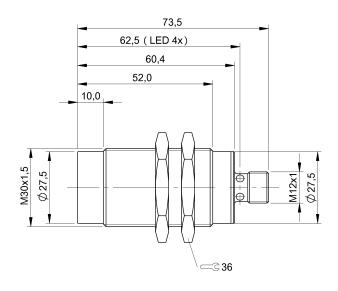
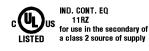
Inductive Sensors BES M30MG1-PSC40F-S04G Order Code: BES02YJ

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Basic features

CE cULus EAC WEEE IEC 60947-5-2
yes
no
M12x1-Male, 4-pin, A-coded
yes
yes
yes

Electrical data

Load capacitance max. at Ue	1μF
Min. operating current Im	0 mA
No-load current lo max., damped	10 mA
No-load current lo max., undamped	10 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.	300 ms
Residual current Ir max.	100 µA
Ripple max. (% of Ue)	20 %
Switching frequency	100 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 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
Protection degree	IP54
Functional safety	
MTTF (40 °C)	380 a
Material	
Housing material	Brass, Chrome-plated
Material sensing surface	PBT
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Internet

eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES02YJ_0.26_2020-03-05

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Mechanical data

Range/Distance

Dimension	Ø 30 x 73.5 mm	Assured operating distance Sa	32 mm	
Installation	non-flush	Hysteresis H max. (% of Sr)	10.0 %	
Size	M30x1.5	Rated operating distance Sn	40 mm	
Tightening torque	70 Nm	Real switching distance sr	40 mm	
		Repeat accuracy max. (% of Sr)	5.0 %	
Output/Interface		Switching distance marking		
Switching output	DND pormally open (NO)	Temperature drift max. (% of Sr)	10 %	
	PNP normally open (NO)	Tolerance Sr	±10 %	

Remarks

The sensor is functional again after the overload has been eliminated. EMC: For operating conditions with noise sources External protection circuit is required. Document 825345.

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

