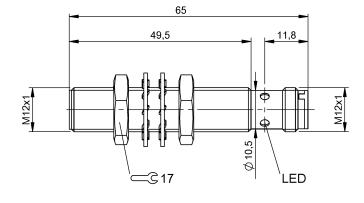
Inductive Sensors BES M12MI-PSC40B-S04G Order Code: BES0068

BALLUFF





Basic features

Approval/Conformity	CE
	cULus
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Trademark	Global

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M12x1-Male, 3-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	1μF
Min. operating current Im	0 mA
No-load current lo max., damped	5 mA
No-load current lo max., undamped	2 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm + D
Protection class	II
Rated insulation voltage Ui	250 V AC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	21 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	15 %
Switching frequency	2500 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 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	IP68	

Functional safety

MTTF (40 °C)

640 a

Inductive Sensors BES M12MI-PSC40B-S04G Order Code: BES0068



3.2 mm 15.0 % 4 mm 4 mm 5.0 % 10 % ±10 %

PNP normally open (NO)

Material		Output/Interface
Housing material	Brass, Nickel-free coated	Switching output
Material sensing surface	PBT	
		Range/Distance
Mechanical data		Assured operating distance Sa
Dimension	Ø 12 x 65 mm	Hysteresis H max. (% of Sr)
Installation	for flush mounting	Rated operating distance Sn
Size	M12x1	Real switching distance sr
Tightening torque	10 Nm	Repeat accuracy max. (% of Sr)
		Switching distance marking
		Temperature drift max. (% of Sr)
		Tolerance Sr
Domarks		

Remarks

The sensor is functional again after the overload has been eliminated. 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

