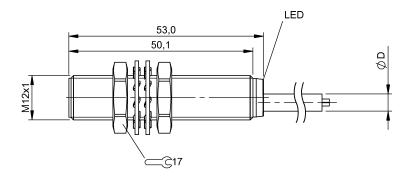
Inductive Sensors BES M12MI-POC40B-BP05 Order Code: BES005K

BVLLAL





Basic features

Approval/Conformity	cULus
	CE
	UKCA
	WEEE
Basic standard	IEC 60947-5-2
Trademark	Global
Display/Operation	

yes no

Display/Operation

Function indicator	
Power indicator	

Electrical connection

4.60 mm
5 m
0.34 mm ²
Cable, 5.00 m, TPU
3
yes
yes
yes

Electrical data

Load capacitance max. at Ue	1 µF
Min. operating current Im	0 mA
No-load current lo max., damped	2 mA
No-load current lo max., undamped	5 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 conditione	

Environmental conditions

Ambient temperature Contamination scale EN 60068-2-27, Shock EN 60068-2-6, Vibration IP rating -25...70 °C 3 Half-sinus, 30 g_n, 11 ms 55 Hz, amplitude 1 mm, 3x30 min IP68

Functional safety

MTTF (40 °C)

Interface

Switching output

PNP normally closed (NC)

eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES005K_0.112_2024-09-02

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Material

Material		Range/Distance	
Housing material	Brass, Nickel-free coated	Assured operating dista	
Material jacket	TPU	Hysteresis H max. (% of	
Material sensing surface	PBT	Rated operating distanc	
		Real switching distance	
Mechanical data		Repeat accuracy max. (
Dimension	Ø 12 x 53 mm	Switching distance mark	
Installation	for flush mounting	Temperature drift max.	
Mounting length	50.00 mm	Tolerance Sr	
Size	M12x1		
Tightening torque	10 Nm		

Assured operating distance Sa	3.2 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	4 mm
Real switching distance sr	4 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. 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.

Wiring Diagrams (Schematic)

