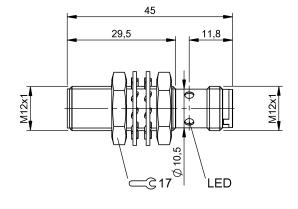
Inductive Sensors BES M12ME-POC40B-S04G-003 Order Code: BES00EC

BALLUFF





Basic features

Approval/Conformity	CE
	UKCA
	cULus
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Trademark	Global
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes

Connection	MIZZI Maie, 4 pin, A c
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	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 conditions

 Ambient temperature
 -25...70 °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
 640 a

 Interface
 Interface

Switching output

PNP normally closed (NC)

eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES00EC_0.72_2022-08-02

Inductive Sensors BES M12ME-POC40B-S04G-003 Order Code: BES00EC



Material

Housing material	Brass, Nickel-free coated
Material sensing surface	PBT
Mechanical data	
Dimension	Ø 12 x 45 mm
Installation	for flush mounting
Size	M12x1
Tightening torque	10 Nm

Range/Distance

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.

Connector Drawings



Wiring Diagrams

