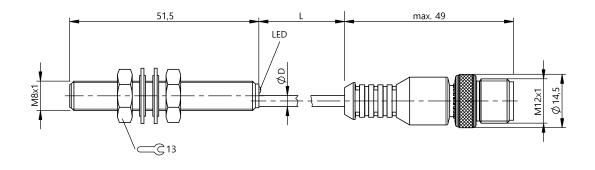
Inductive Sensors BES M08MI-PSC40B-BP00,2-GS04 Order Code: BES01ZU







Basic features

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Cable diameter D	3.00 mm
Cable length L	0.2 m
Connection	M12x1-Male, 4-pin, A-coded
Connection type	Cable with connector, 0.20 m, PUR
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	10 mA
No-load current lo max., undamped	8 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm + 2D
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.	10 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	15 %
Switching frequency	800 Hz
Utilization category	DC -13
Voltage drop static max.	2.8 V

Environmental conditions

Ambient temperature	060 °C
Contamination scale	3
EN 60068-2-27, Shock	30 gn, 11 ms, 3x12 shocks
EN 60068-2-6, Vibration	102000 Hz, 1 mm, 30 gn, 3x5 h
Protection degree	IP67

Functional safety

MTTF (40 °C)

355 a

Inductive Sensors BES M08MI-PSC40B-BP00,2-GS04 Order Code: BES01ZU



Material

		-	
Housing material	Brass	Switching output	PNP normally open (NO)
Material jacket	PUR		
Material sensing surface	PBT	Range/Distance	
Surface protection	nickel plated	Assured operating distance Sa	2.9 mm
		Hysteresis H max. (% of Sr)	15.0 %
Mechanical data		Rated operating distance Sn	4 mm
Dimension	Ø 8 x 51.5 mm	Real switching distance sr	4 mm
Installation	quasi-flush	Repeat accuracy max. (% of Sr)	5.0 %
Size	M8x1	Switching distance marking	
Tightening torque	3 Nm	Temperature drift max. (% of Sr)	20 %
		Tolerance Sr	±10 %

Output/Interface

Remarks

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

EMC: Surge resistance

External protection circuit is required. Document 825345, Section 2.

Quasi-flushed: See installation instructions for inductive sensors with extended range 825356.

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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

