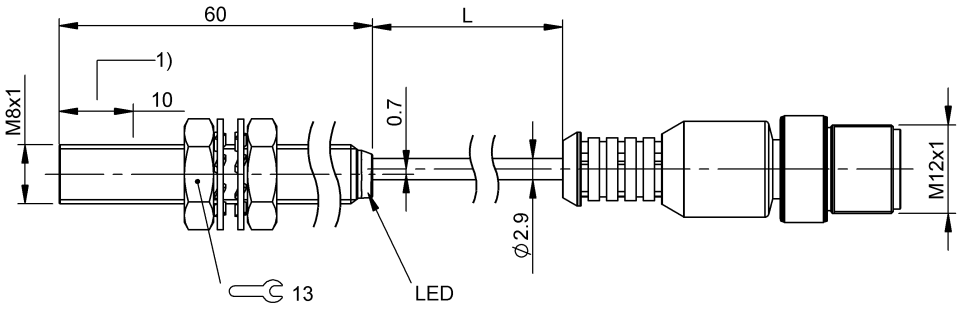
Inductive Sensors

BES M08MM-PSC40B-BP00,3-GS04
Order Code: BES05U9



IND. CONT. EQ.
81U2
Class 2 Type 1

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 mm
Cable length L	0.3 m
Connection	M12x1-Male, 3-pin
Connection type	Cable with connector, 0.3 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
No-load current Io max., damped	11 mA
No-load current Io max., undamped	7 mA
Operating voltage Ub	10...30 VDC
Output resistance Ra	100.0 kOhm
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	40 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	10 %
Switching frequency	1200 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 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
Protection degree	IP67

Functional safety

MTTF (40 °C)	584 a

Inductive Sensors

BES M08MM-PSC40B-BP00,3-GS04
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Material

Housing material	Brass
Material jacket	PUR
Material sensing surface	PBT
Surface protection	Nickel-free coated

Mechanical data

Dimension	Ø 8 x 60 mm
Installation	quasi-flush
Size	M8x1
Tightening torque	3 Nm

Output/Interface

Switching output	PNP normally open (NO)

Range/Distance

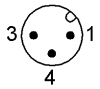
Assured operating distance Sa	2.9 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	4 mm
Real switching distance sr	4 mm
Switching distance marking	■■■■
Temperature drift max. (% of Sr)	15 %
Tolerance Sr	±10 %

Remarks

The sensor is functional again after the overload has been eliminated.
1) Do not clamp in this area.
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

