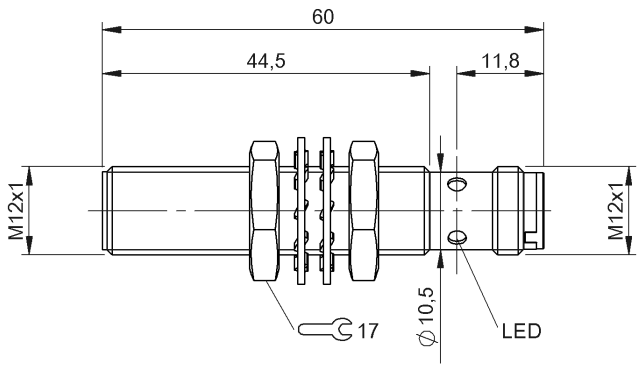
Inductive Sensors

BES M12MG1-PSC60B-S04G
Ordercode: BES02WZ



Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M12x1-Male, 3-pole, A-coded
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Contamination scale	3
Load capacitance max. at Ue	1.5 µF
No-load current Io undamped max.	7 mA
Operating voltage Ub	10…30 VDC
Output resistance Ra	47.0 kOhm
Polarity reversal protected	yes
Protection class	II
Rated insulation voltage Ui	250 V AC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	35 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current Ir max.	100 µA
Residual ripple max. (% of Ue)	15 %
Switching frequency	1000 Hz
Utilization category	DC-13
Voltage drop static max.	1.3 V

Environmental conditions

Ambient temperature	-25…85 °C
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating per IEC 60529	IP68 according to BWN Pr 20

Functional safety

MTTF (40 °C)	625 a

General data

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

Material

Housing material	Brass
Material sensing surface	PBT
Surface protection	nickel-free coated

Mechanical data

Dimension	Ø 12 x 60 mm
Installation	quasi-flush
Size	M12x1
Tightening torque	10 Nm

Output/Interface

Switching output	PNP Normally open (NO)

Range/Distance

Assured operating distance Sa	4.8 mm
Effective operating distance Sr	6 mm
Hysteresis H max. (% of Sr)	15.0 %

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Rated operating distance Sn	6 mm
Switching distance marking	■■■
Temperature drift max. (% of Sr)	10 %

Remarks

Quasi-shielded: See installation instructions for inductive sensors with extended range 825356.
The sensor is functional again after the overload has been eliminated.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Connector view



Wiring Diagram

