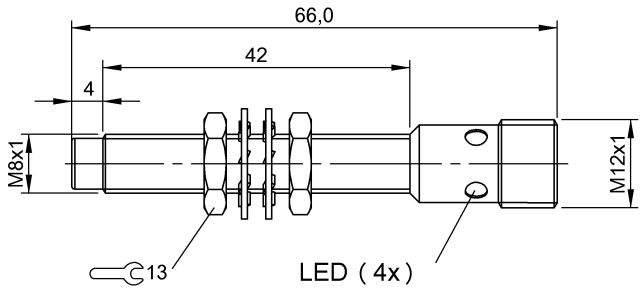
Inductive Sensors

BES M08MG1-PSC60F-S04G
Ordercode: BES02W3



IND. CONT. EQ. 11RZ for use in the secondary of a class 2 source of supply

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M12x1-Male, 4-pole, A-coded
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Contamination scale	3
Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	1 µF
MTTF (40 °C)	945 a
No-load current Io undamped max.	10 mA
Operating voltage Ub	10…30 VDC
Output resistance Ra	47.0 kOhm
Polarity reversal protected	yes
Rated insulation voltage Ui	75 V DC
Rated operating current Ie DC	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	50 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current Ir max.	100 µA
Ripple max. (% of Ue)	20 %
Switching frequency	500 Hz
Utilization category	DC-13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-25…70 °C
Protection type IEC 60529	IP67

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	0 a

General data

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

Material

Housing material	Brass
Material sensing surface	PBT
Surface protection	chrome plated

Mechanical data

Dimension	Ø 8 x 66 mm
Installation	non-flush
Size	M8x1
Tightening torque	4 Nm

Output/Interface

Switching output	PNP Normally open (NO)

Range/Distance

Assured operating distance Sa	4.8 mm
Effective operating distance Sr	6 mm

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

Remarks

The sensor is functional again after the overload has been eliminated.
Operating frequency f oscillator : 320 kHz. In the range of ±15% of the working frequency EMC incompatibilities may occur.
With connector, e.g. BCC M425-.. total length is = switch length +19 mm.

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

