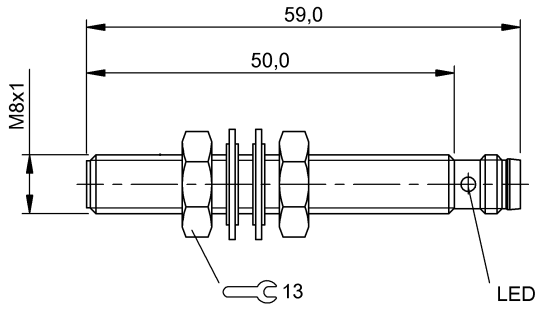
Inductive Sensors

BES M08MI-PSC40B-S49G

Ordercode: BES01ZW



Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M8x1-Male, 3-pole
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)	355 a
No-load current Io undamped max.	8 mA
Operating voltage Ub	10…30 VDC
Output resistance Ra	33.0 kOhm + 2D
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.	10 ms
Repeat accuracy max. (% of Sr)	5.0 %
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	0…60 °C
Protection type IEC 60529	IP67

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	20 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 plates

Mechanical data

Dimension	Ø 8 x 59 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
Effective operating distance Sr	4 mm

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Range	4 mm
Rated operating distance Sn	4 mm
Switching distance marking	■■■■
Temperature drift max. (% of Sr)	20 %

Remarks

EMC: EMC protection circuit required, see 825345. Burst: 1.2 IVW: 2.2
Quasi-shielded: See installation instructions for inductive sensors with extended range 825356.
The sensor is functional again after the overload has been eliminated.
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

