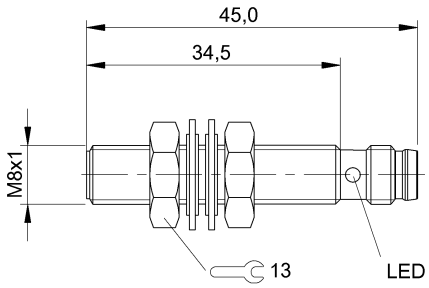
Inductive Sensors

BES 516-377-G-E5-C-S49

Ordercode: BES0113



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	0.5 µF
No-load current Io undamped max.	9 mA
Operating voltage Ub	10…30 VDC
Output resistance Ra	33.0 kOhm + D
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.	20 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current Ir max.	20 µA
Ripple max. (% of Ue)	15 %
Switching frequency	1500 Hz
Utilization category	DC-13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-25…70 °C
IP rating per IEC 60529	IP68

Functional safety

MTTF (40 °C)	830 a

General data

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

Material

Housing material	Stainless steel
Material sensing surface	PBT

Mechanical data

Dimension	Ø 8 x 45 mm
Installation	for flush mounting
Size	M8x1
Tightening torque	8 Nm

Output/Interface

Switching output	PNP Normally closed (NC)

Range/Distance

Assured operating distance Sa	1.6 mm
Effective operating distance Sr	2 mm
Rated operating distance Sn	2 mm
Switching distance marking	▮▮
Temperature drift max. (% of Sr)	10 %

Remarks

The sensor is functional again after the overload has been eliminated.
Shielded: See installation instructions for inductive sensors with extended range 825357.

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

