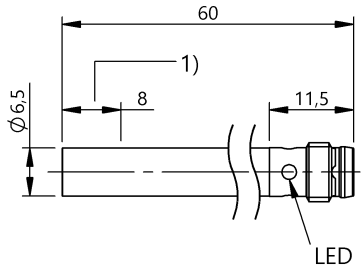
Inductive Sensors

BES G06EI-NSC40B-S49G
Order Code: BES05WF



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

Basic features

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

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M8x1-Male, 3-pin
Polarity reversal protected	yes
Protection against device mix-ups	no
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
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.	40 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	10 %
Switching frequency	1100 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	IP68

Functional safety

MTTF (40 °C)	584 a

Material

Housing material	Stainless steel
Material sensing surface	PBT

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Mechanical data

Dimension	Ø 6.5 x 60 mm
Installation	quasi-flush
Size	D6.5

Output/Interface

Switching output	NPN normally open (NO)

Range/Distance

Assured operating distance Sa	2.9 mm
Hysteresis H max. (% of Sr)	15 %
Rated operating distance Sn	4 mm
Real switching distance sr	4 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■■■■
Temperature drift max. (% of Sr)	15 %
Tolerance Sr	±10 %

Remarks

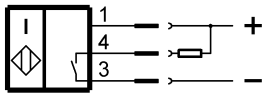
The sensor is functional again after the overload has been eliminated.
Installation: dimension b ≥ 5 mm for ferromagnetic materials
Dimension b ≥ 6 mm for other metals
Correction factors: EC80 1.0
Aluminum 0.15 .. 0.20
Brass 0.20 .. 0.25
Chromium-nickel 0.40 ... 0.50
Copper 0.10 .. 0.15
Gray cast iron 1.12 .. 1.20
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



Help Views

