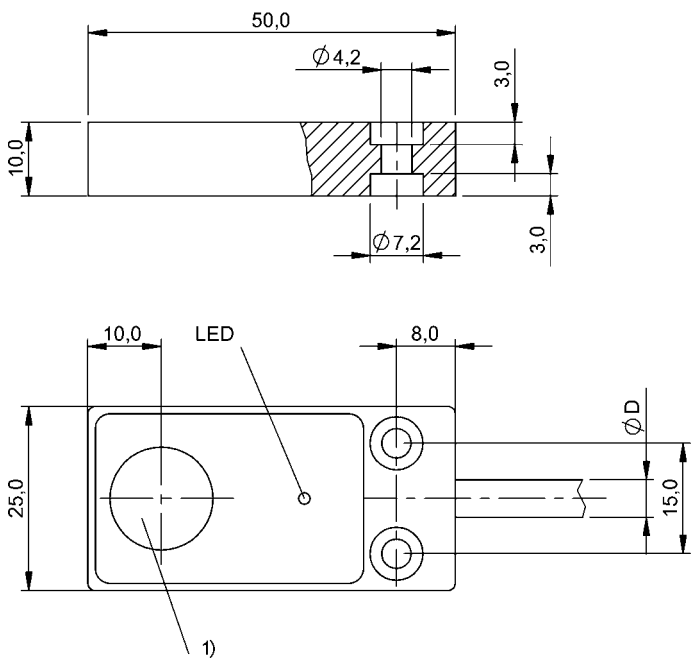


Inductive Sensors
BES 516-133-SA3-C-PU-04
Order Code: BES032R



1) Sensing surface



Basic features

Approval/Conformity	CE UKCA WEEE
Base type deviation	Sn
Basic standard	IEC 60947-5-2

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	4.60 mm
Cable length L	4 m
Conductor cross-section	0.25 mm ²
Connection type	Cable, 4.00 m, PUR
Number of conductors	4
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at U _e	0.5 µF
Min. operating current I _m	0 mA
No-load current I _o max., damped	30 mA
No-load current I _o max., undamped	20 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	2.2 kOhm + D + LED
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	10 ms
Residual current I _r max.	80 µA
Ripple max. (% of U _e)	15 %
Switching frequency	500 Hz
Utilization category	DC -13
Voltage drop static max.	3.5 V

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Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Functional safety

MTTF (40 °C)	1015 a
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Interface

Switching output	PNP normally open/normally closed (NO/NC)
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Material

Housing material	Aluminium
Material jacket	PUR
Material sensing surface	PBT

Mechanical data

Dimension	50 x 25 x 10 mm
Installation	for flush mounting
Size	50x25x10

Range/Distance

Assured operating distance Sa	4.5 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	5.6 mm
Real switching distance sr	5.6 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±6 %

Remarks

The sensor is functional again after the overload has been eliminated.
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.

Wiring Diagrams

