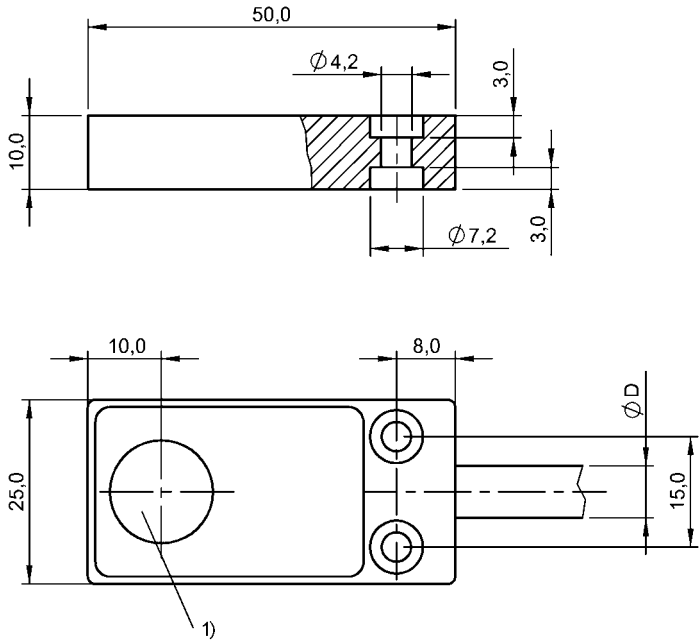


Inductive Sensors
BES 516-347-SA2-03
Order Code: BES02J0



1) Sensing surface



Basic features

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

Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Cable diameter D	7.00 mm
Cable length L	3 m
Conductor cross-section	0.75 mm ²
Connection type	Cable, 3.00 m, Silicone
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at U _e	0.15 µF
Min. operating current I _m	0 mA
No-load current I _o max., damped	25 mA
No-load current I _o max., undamped	8 mA
Output resistance R _a	4.7 kOhm + D
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	25 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.	2.5 V

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Environmental conditions

Ambient temperature	-25...100 °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	IP65, IP60 at cable exit

Functional safety

MTTF (40 °C)	930 a
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Interface

Switching output	PNP normally open (NO)
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Material

Housing material	Aluminium
Material jacket	Silicone
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 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	5 mm
Real switching distance sr	5 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Wiring Diagrams

