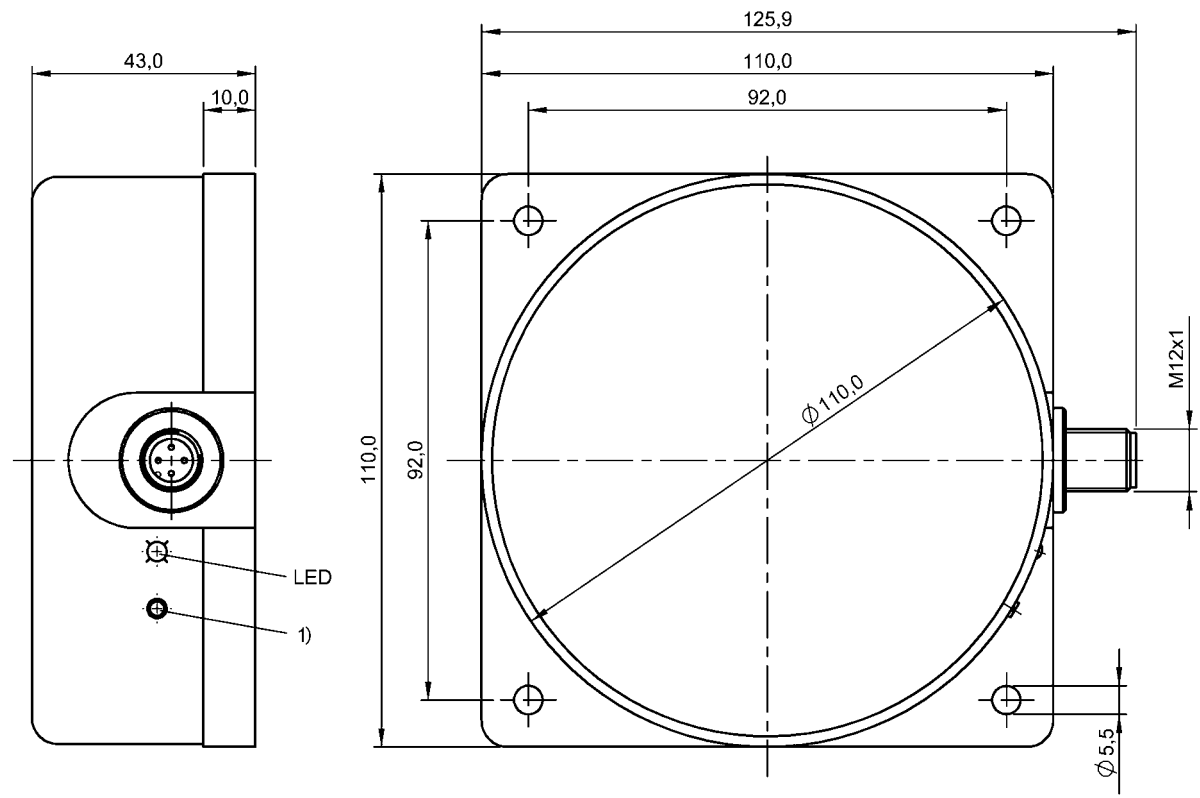


Inductive Sensors
BES IKN-070T.38-G-S4
Order Code: BES02RU



1) Teach-In button



Basic features

Additional features	Teach-in function
Approval/Conformity	CE WEEE

Display/Operation

Function indicator	yes
Power indicator	yes

Electrical connection

Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Min. operating current I_m	0 mA
No-load current I_o max., damped	10 mA
No-load current I_o max., undamped	10 mA
Operating voltage U_b	10...55 VDC
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	200 mA
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	300 ms
Residual current I_r max.	50 μ A
Ripple max. (% of U_e)	15 %
Switching frequency	50 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

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Environmental conditions

Ambient temperature	0...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

Interface

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

Housing material	PBT
Material sensing surface	PBT

Mechanical data

Dimension	110 x 110 x 43 mm
Installation	non-flush
Size	110x110x43

Range/Distance

Assured operating distance Sa	56.7 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	70 mm
Real switching distance sr	70 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %

Remarks

The specified enclosure rating is met when the threaded cover is installed.
After eliminating the overload, the sensor is functional again after a load-dependent delay time of 5-30 s.
Sn value referenced to test plate made of steel St37, 1mm thick, 210 mm x 210 mm.

Connector Drawings



Wiring Diagrams

