



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 $\mu$ A
Ripple max. (% of $U_e$ )	15 %
Switching frequency	50 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

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



Environmental conditions

Ambient temperature	0...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 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 (Schematic)

