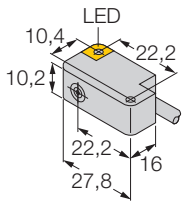
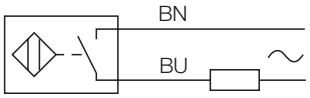
Inductive sensor

Bi2-Q10S-AZ31X



- **rectangular, height 10,2 mm**
- **side active face**
- **cable outlet to all sides possible**
- **plastic, PA12-GF20**
- **2-wire AC, 20...250 VAC**
- **2-wire DC, 10...300 VDC**
- **normally open**
- **cable connection**

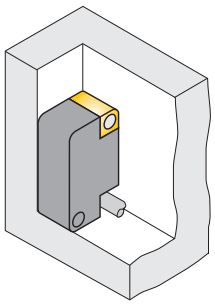
Wiring diagram



Type	Bi2-Q10S-AZ31X
Ident-No.	1309100
Rated operating distance Sn	2 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operating temperature	-25 ...+ 70 °C
Rated operational voltage (AC) U_B	20... 250 VAC
Rated operational voltage (DC) U_B	10... 300 VDC
Rated operational current (AC) I_e	≤100 mA
Rated operational current (DC) I_e	≤ 100 mA
Line frequency	50... 60 Hz
Max. OFF-state current	≤ 1,7 mA
Max. switching frequency	≤ 0,06 kHz
Rated insulation voltage	≤ 1,5 kV
Surge Current	≤1 A (≤10 ms max. 5 Hz)
Output function	2-wire, normally open
Max. voltage drop at I_e	≤ 6 V
Min. operational current I_m	≥ 3 mA
Housing style	rectangular; Q10S
Dimensions	27,8 x 16 x 10,2 mm
Housing material	plastic, PA12-GF20
Active face	plastic, PA12-GF20
Wiring	cable
Cable	Ø 4, LifYY-11Y, PUR, 2 m
Cable cross section	2 x 0,25 mm^2
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Switching status indication	LED red

Function principles

Inductive proximity switches are designed for wear-free non-contact detection of metal objects. For this they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.



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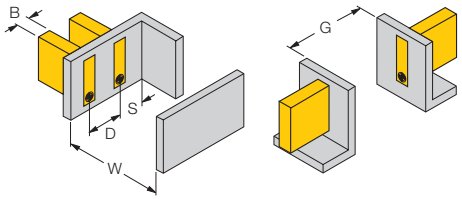
Mounting instructions	minimum gap
Gap D	2 x B
Gap W	3 x Sn
Gap S	1 x B
Gap G	6 x Sn
Width of active face B	10,2 mm



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