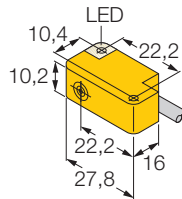
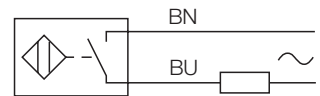


Inductive sensor
Bi2-Q10S-AZ31X 7M



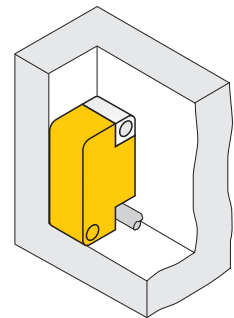
- rectangular, height 10.2 mm
- side active face
- cable outlet to all sides possible
- plastic, PP-GF20
- AC 2-wire, 20...250 VAC
- 2-wire DC, 10...300 VDC
- normally open
- cable connection

Wiring diagram



Functional principle

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



Type	Bi2-Q10S-AZ31X 7M
Ident-No.	1309102
Rated operating distance Sn	2 mm
Mounting condition	flush
Assured sensing range	≤ (0,81 x Sn) mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Repeatability	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	3... 15 %
Ambient temperature	-25...+ 70 °C
Operating voltage	20... 250VAC
Operating voltage	10... 300VDC
AC rated operational current	≤ 100 mA
DC rated operational current	≤ 100 mA
Frequency	50... 60 Hz
Residual current	≤ 1.7 mA
Rated insulation voltage	≤ 1.5 kV
Surge current	≤ 1 A (≤ 10 ms max. 5 Hz)
Voltage drop at I _e	≤ 6V
Output function	2-wire, normally open
Smallest operating current I _m	≥ 3 mA
Switching frequency	≤ 0.06 kHz
Housing	rectangular, Q10S
Dimensions	27.8 x 16 x 10.2 mm
Housing material	plastic, PP-GF20
Material active face	plastic, PP-GF20
Connection	cable
Cable quality	Ø 3, grey, Lif9Y-11Y, PUR, 7 m
Cable cross section:	2 x 0.14mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Display switch state	LED red

**Inductive sensor
Bi2-Q10S-AZ31X 7M**

Mounting instructions	minimum distances
Distance D	2 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn

Width of the active face B	10.2 mm
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