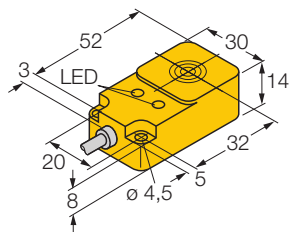


Inductive sensor

Bi10-Q14-ADZ32X2

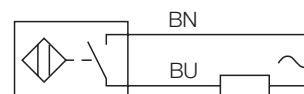
TURCK

Industrial
Automation



- rectangular, height 14mm
- top active face
- Plastic, PBT-GF30-V0
- 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	Bi10-Q14-ADZ32X2
Ident-No.	4256220
Rated operating distance Sn	10 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)
Short-circuit protection	yes / latching
Voltage drop at I _e	6V
Wire breakage / Reverse polarity protection	yes / complete
Output function	2-wire, normally open
Smallest operating current I _m	≥ 3 mA
Switching frequency	0.02 kHz
Housing	rectangular, Q14
Dimensions	52 x 30 x 14 mm
Housing material	plastic, PBT-GF30-V0
Material active face	plastic, PBT-GF30-V0
Connection	cable
Cable quality	Ø 5.2, LiYY-11Y, PUR, 2 m
Cable cross section:	2 x 0.34mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Operating voltage display	LED green
Display switch state	LED red

Inductive sensor Bi10-Q14-ADZ32X2

Mounting instructions	minimum distances
Distance D	1,5 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn

Width of the active face B	30 mm
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