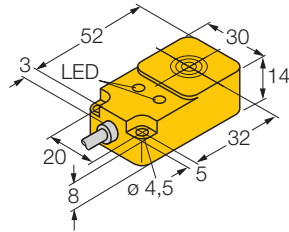
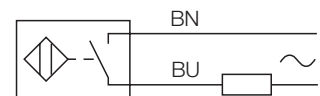


**Inductive sensor
magnetic field immune
Bi10-Q14-ADZ32X2/S34**



- rectangular, height 14mm
- top active face
- Plastic, PBT-GF30-V0
- magnetic field immunity (welding resistance) to DC and AC fields
- 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. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil. Magnetic field sensors incorporate a special ferrite core which makes them immune to magnetic AC and DC fields. They may thus be used in welding applications.

Type	Bi10-Q14-ADZ32X2/S34
Ident-No.	4256225
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
magnetic field immune
Bi10-Q14-ADZ32X2/S34**

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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