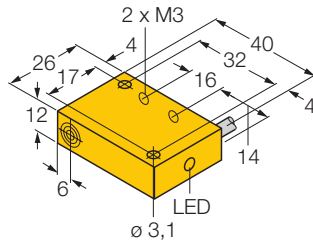
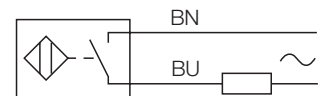


## Inductive sensor Ni4-Q12-AZ31X



- rectangular, height 12 mm
- side 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.

<b>Type</b>	Ni4-Q12-AZ31X
Ident-No.	13102
<b>Rated operating distance Sn</b>	4 mm
Mounting condition	non-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
<b>Operating voltage</b>	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 <sub>e</sub>	6V
Output function	2-wire, normally open
Smallest operating current I <sub>m</sub>	≥ 3 mA
Switching frequency	0.02 kHz
<b>Housing</b>	rectangular, Q12
Dimensions	40 x 26 x 12 mm
Housing material	plastic, PA12-GF30
Material active face	plastic, PA12-GF30
Connection	cable
Cable quality	Ø 5.2, LifYY, PVC, 2 m
Cable cross section:	2 x 0.34mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
<b>Display switch state</b>	LED yellow

## Inductive sensor Ni4-Q12-AZ31X

Mounting instructions	minimum distances
Distance D	3 x B
Distance W	3 x Sn
Distance S	1,5 x B
Distance G	6 x Sn
Distance N	2 x Sn

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**Width of the active face B** 12 mm

