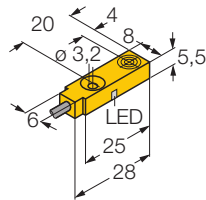


# Inductive sensor Bi2-Q5,5-AN6X

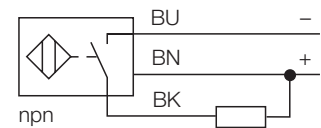
**TURCK**

Industrial  
Automation



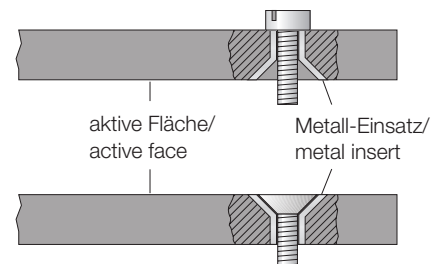
- rectangular, height 5.5mm
- top active face
- plastic, PP
- 3-wire DC, 10...30 VDC
- normally open npn output
- cable connection

### 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>	Bi2-Q5,5-AN6X
Ident-No.	1613100
<b>Rated operating distance Sn</b>	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...+ 85 °C
<b>Operating voltage</b>	10... 30VDC
Residual ripple	10 % U <sub>SS</sub>
DC rated operational current	150 mA
No-load current I <sub>0</sub>	15 mA
Residual current	0.1 mA
Rated insulation voltage	0.5 kV
Short-circuit protection	yes / cyclic
Voltage drop at I <sub>e</sub>	1.8V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, npn
Switching frequency	2 kHz
<b>Housing</b>	rectangular, Q5.5
Dimensions	28 x 8 x 5.5 mm
Housing material	plastic, PP-GF20
Material active face	plastic, PP-GF20
Connection	cable
Cable quality	Ø 3, LiYY-11Y, PUR, 2 m
Cable cross section:	3 x 0.14mm <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 Bi2-Q5,5-AN6X

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

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<b>Width of the active face B</b>	8 mm
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