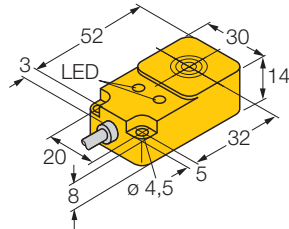


# Inductive sensor Bi10-Q14-AN6X2

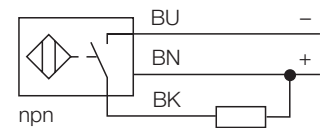
**TURCK**  
*works*

Industrial  
Automation



- rectangular, height 14mm
- top active face
- Plastic, PBT-GF30-V0
- 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>	Bi10-Q14-AN6X2
Ident-No.	1608320
<b>Rated operating distance Sn</b>	10 mm
Mounting condition	flush
Assured sensing range	$\leq (0,81 \times S_n)$ mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Temperature drift	$\leq \pm 10 \%$
Hysteresis	3... 15 %
Repeatability	$\leq 2 \%$
Ambient temperature	-25... + 70°C
<b>Operating voltage</b>	10... 30VDC
Residual ripple	$\leq 10 \%$ $U_{ss}$
DC rated operational current	$\leq 200$ mA
No-load current $I_0$	$\leq 15$ mA
Residual current	$\leq 0.1$ mA
Rated insulation voltage	$\leq 0.5$ kV
Short-circuit protection	yes / cyclic
Voltage drop at $I_e$	$\leq 1.8$ V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, npn
Switching frequency	$\leq 0.25$ kHz
<b>Housing</b>	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	$\varnothing$ 5.2, LifYY-11Y, PUR, 2 m
Cable cross section:	3 x 0.34mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
<b>Operating voltage display</b>	LED green
Display switch state	LED yellow

# Inductive sensor Bi10-Q14-AN6X2

**TURCK**  
*works*

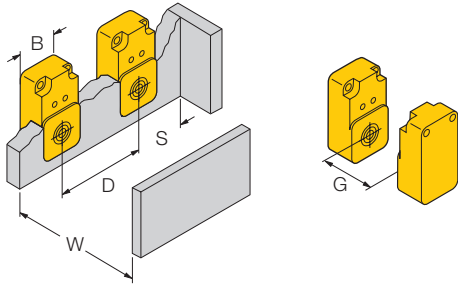
Industrial  
Automation

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Mounting instructions	minimum distances
Distance D	$1,5 \times B$
Distance W	$3 \times S_n$
Distance S	$1 \times B$
Distance G	$6 \times S_n$

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**Width of the active face B**                      30 mm



# Inductive sensor Bi10-Q14-AN6X2



## Accessories

Type code	Ident-No.	Short text	Dimension drawing
MW-Q14/Q20	6945006	mounting bracket; material VA 1.4301	
MH-Q14	6950011	for mounting with active face downwards	