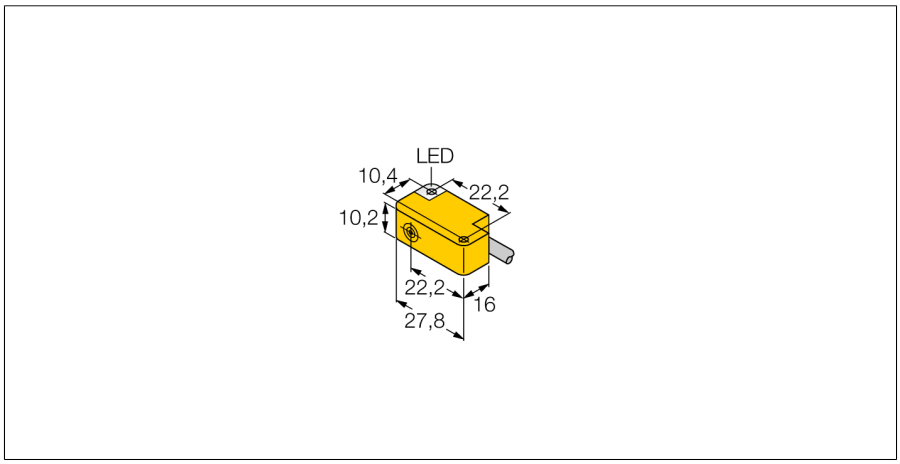
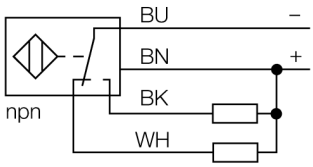
Inductive sensor
BI2-Q10S-VN6X



- **Rectangular, height 10.2 mm**
- **Active face, lateral**
- **Cable outlet to all sides**
- **Plastic, PP-GF20**
- **4-wire DC, 10…30 VDC**
- **Changeover contact, NPN output**
- **Cable connection**

Wiring diagram

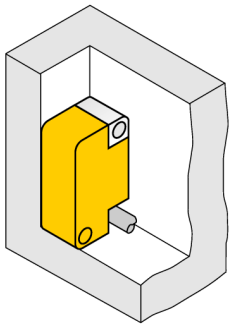


Type code	BI2-Q10S-VN6X
Ident no.	1609341
Rated operating distance Sn	2 mm
Mounting condition	flush
Assured sensing range	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
Temperature drift	10 %
Hysteresis	3…15 %
Ambient temperature	-25…+70 °C
Operating voltage	10…30VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 150 mA
No-load current I_0	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I_e	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	4-wire, changover contact, NPN
Switching frequency	2 kHz
Design	rectangular, Q10S
Dimensions	27.8 x 16 x 10.2 mm
Housing material	plastic, PP
Connection	cable
Cable quality	3 mm, Lif9Y-11YFHF, PUR, 2 m
Cable cross section	4 x 0.14 mm²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED yellow

Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

We offer special versions for temperatures of -60 °C up to +250 °C.



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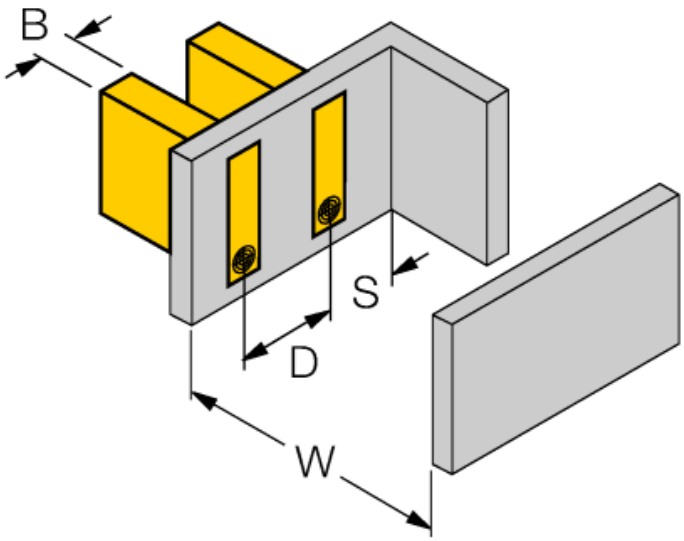
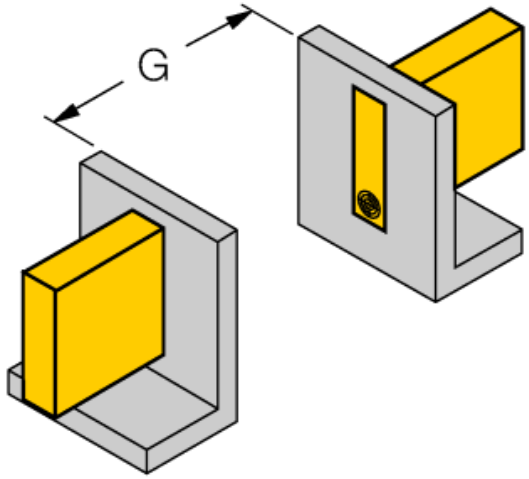
Distance D	2 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn
Width of the active face B	10.2 mm





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