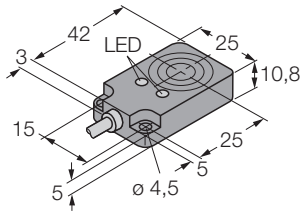
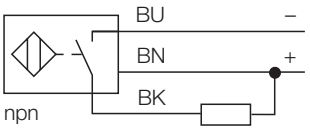
Inductive sensor

Bi8U-Q10-AN6X2



- **rectangular, height 10,8mm**
- **top active face**
- **plastic, PBT-GF30-V0**
- **factor 1 for all metals**
- **magnetic field immune**
- **extended temperature range**
- **high switching frequency**
- **3-wire DC, 10...30 VDC**
- **normally open npn output**
- **cable connection**

Wiring diagram



Type	Bi8U-Q10-AN6X2
Ident-No.	1662003
Rated operating distance Sn	8 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 % ≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Operating temperature	-30 ...+ 85 °C
Rated operational voltage (DC) U_B	10... 30 VDC
Max. ripple	≤ 10 % U_{pp}
Rated operational current (DC) I_e	≤ 200 mA
No-load current I_0	≤ 15 mA
Max. OFF-state current	≤ 0,1 mA
Max. switching frequency	≤ 0,25 kHz
Rated insulation voltage	≤ 0,5 kV
Output function	3-wire, normally open, NPN
Short-circuit protection	yes, cyclic
Max. voltage drop at I_e	≤ 1,8 V
Wire breakage / reverse polarity protection	yes / complete
Protection class	⧈
Housing style	rectangular; Q10
Dimensions	42 x 25 x 10,8 mm
Housing material	plastic, PBT-GF30-V0
Active face	plastic, PBT-GF30-V0
Wiring	cable
Cable	Ø 4, LifYY-11Y, PUR, 2 m
Cable cross section	3 x 0,25 mm^2
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Supply voltage indication	LED green
Switching status indication	LED yellow

Function principles

Inductive proximity switches are designed for wear-free non-contact detection of metal objects. Due to a ferrite-less 3-coil system, Uprox factor 1 sensor have distinct advantages. The detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.

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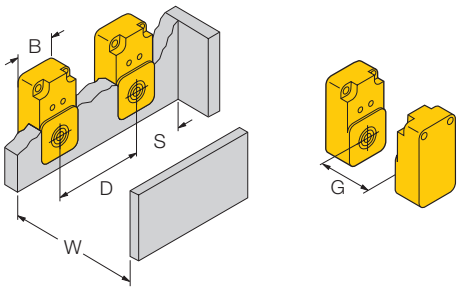
Mounting instructions	minimum gap
Gap D	2 x B
Gap W	3 x Sn
Gap S	1 x B
Gap G	6 x Sn
Width of active face B	25 mm



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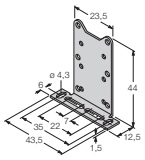
Accessories

Typ	Ident-No.	Description	Dimension drawing
MWQ08/Q10	6945007	mounting bracket; material VA 1.4301	

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