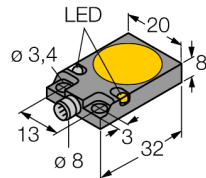
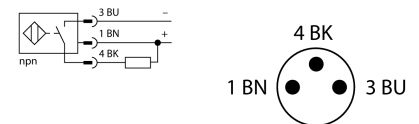


Inductive sensor
With Extended Switching Distance
BI5U-Q08-AN6X2-V1131



- Rectangular, height 8 mm
- Active face on top
- Metal, die-cast zinc
- Connector with snap lock
- Factor 1 for all metals
- Resistant to magnetic fields
- Extended temperature range
- High switching frequency
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- Flange connector, Ø 8 mm

Wiring Diagram



Functional principle

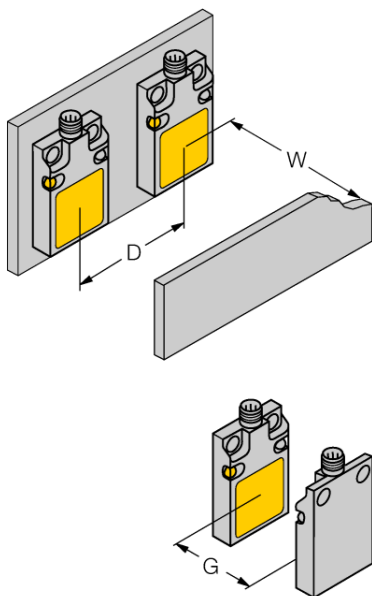
Inductive sensors detect metal objects contactless and wear-free. *uprox®* Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

Type designation	BI5U-Q08-AN6X2-V1131
Ident-No.	1608910
Rated switching distance Sn	5 mm
Mounting conditions	Flush
Secured operating distance	$\leq (0,81 \times S_n)$ mm
Repeat accuracy	$\leq 2 \%$ of full scale
Temperature drift	$\leq \pm 10 \%$
Hysteresis	$\leq \pm 15 \%$, $\leq -25^\circ\text{C}$ v $\geq +70^\circ\text{C}$
Ambient temperature	$-30...+85^\circ\text{C}$
Operating voltage	10...30 VDC
Residual ripple	$\leq 10 \%$ U_{ss}
DC rated operational current	≤ 200 mA
No-load current I_o	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes/ Cyclic
Voltage drop at I_o	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes/ Complete
Output function	3-wire, NO contact, NPN
Switching frequency	0.25 kHz
Design	Rectangular, Q08
Dimensions	32 x 20 x 8 mm
Housing material	Metal, GD-Zn, Black-finished
Active area material	Plastic, PPA, yellow
Electrical connection	Connector, Ø 8 mm
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	874 years acc. to SN 29500 (Ed. 99) 40°C
Packaging unit	1
Power-on indication	LED, Green
Switching state	LED, Yellow

Inductive sensor
With Extended Switching Distance
BI5U-Q08-AN6X2-V1131

Distance D	40 mm
Distance W	15 mm
Distance G	30 mm

Width active area B	17 mm
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Wiring accessories

Type code	Ident-No.	Description	
PKG3S-2/TEL	6627330	Connection cable, female Ø M8, straight, 3-pin, snap-on type, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	