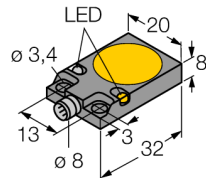
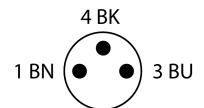
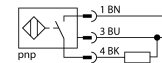


Inductive sensor
With Extended Switching Distance
BI5U-Q08-AP6X2-V1131



- 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, PNP output
- Flange connector, Ø 8 mm

Wiring Diagram



Functional principle

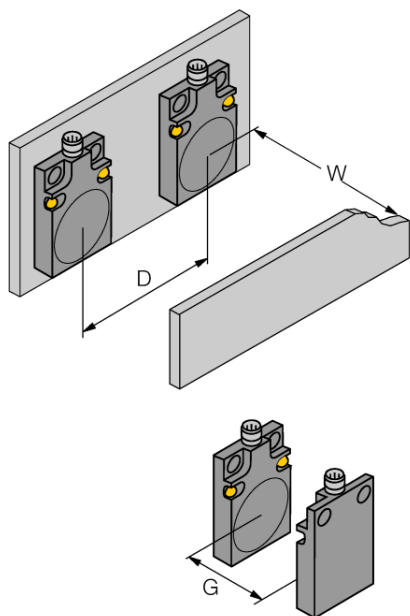
Inductive sensors detect metal objects contactless and wear-free. *uprox®* Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

Type designation	BI5U-Q08-AP6X2-V1131
Ident-No.	1608900
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	$\leq \pm 15\%$, $\leq -25\text{ °C}$ v $\geq +70\text{ °C}$
Ambient temperature	$-30\text{...}+85\text{ °C}$
Operating voltage	10...30 VDC
Residual ripple	$\leq 10\%$ U_{ss}
DC rated operational current	$\leq 200\text{ mA}$
No-load current I_0	$\leq 15\text{ mA}$
Residual current	$\leq 0.1\text{ mA}$
Isolation test voltage	$\leq 0.5\text{ kV}$
Short-circuit protection	yes/ Cyclic
Voltage drop at I_0	$\leq 1.8\text{ V}$
Wire breakage/Reverse polarity protection	yes/ Complete
Output function	3-wire, NO contact, PNP
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-AP6X2-V1131

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

Width active area B	17 mm
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**Inductive sensor
With Extended Switching Distance
BI5U-Q08-AP6X2-V1131**

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	