

- Rectangular, height 8 mm
- Active face on top
- Metal, die-cast zinc
- Connector with snap lock
- Factor 1 for all metals
- Increased switching distance
- Protection class IP68
- Resistant to magnetic fields
- Mountable on metal
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- Flange connector, Ø 8 mm

Type designation	BI8U-Q08-AN6X2-V1131
Ident-No.	1662008

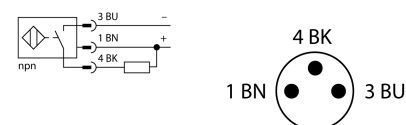
Rated switching distance S_n	8 mm
Mounting conditions	Flush
Secured operating distance	$\leq (0,81 \times S_n) \text{ mm}$
Repeat accuracy	$\leq 2 \% \text{ of full scale}$
Temperature drift	$\leq \pm 10 \%$
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C

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, NPN
Switching frequency	0.25 kHz

Design	Rectangular,Q08
Dimensions	32 x 20 x 8 mm
Housing material	Metal, GD-Zn, Nickel-plated
Active area material	Plastic, PP, yellow
Electrical connection	Connector, Ø 8 mm
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C

Power-on indication	LED,Green
Switching state	LED,Yellow

Wiring Diagram

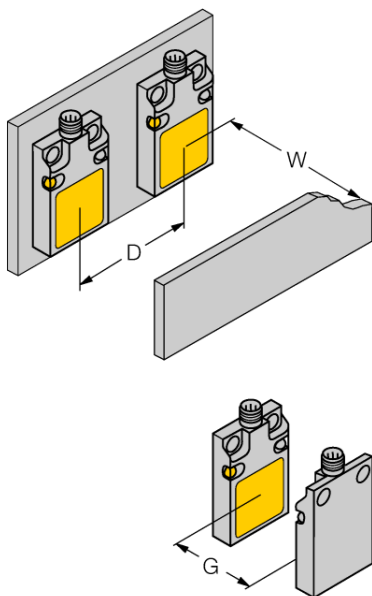


Functional principle

Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *uprox®+* sensors have distinct advantages over conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Distance D	40 mm
Distance W	24 mm
Distance G	48 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	