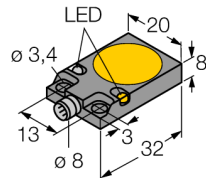


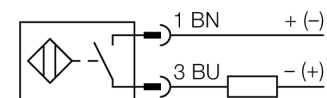
Inductive sensor

BI5-Q08-AD4X-V1130



- Rectangular, height 8 mm
- Active face on top
- Metal, GD-Zn
- Connector with snap-lock
- 2-wire DC, 10...65 VDC
- NO contact
- Ø 8 mm connector

Wiring diagram



Functional principle

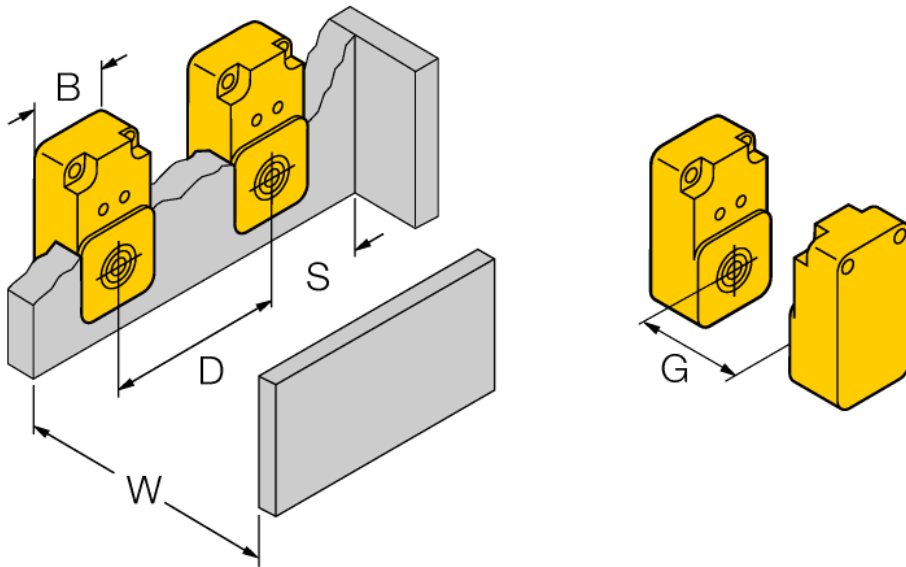
Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

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

Type code	BI5-Q08-AD4X-V1130
Ident no.	4414551
Rated operating distance S_n	5 mm
Mounting condition	flush
Assured sensing range	$\leq (0,81 \times S_n)$ mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	$\leq 2\%$ of full scale
Temperature drift	10 %
Hysteresis	1...15 %
Ambient temperature	-25...+70 °C
Operating voltage	10...65VDC
Residual ripple	$\leq 10\%$ U_{ss}
DC rated operational current	≤ 100 mA
Residual current	≤ 0.6 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I_n	≤ 5 V
Smallest operating current I_m	≤ 3 mA
Switching frequency	0.25 kHz
Design	rectangular, Q08
Dimensions	32 x 20 x 8 mm
Housing material	metal, GD-Zn
Connection	male, Ø 8 mm
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

**Inductive sensor
BI5-Q08-AD4X-V1130**

Distance D	2 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn
<hr/>	
Width of the active face B	20 mm



Inductive sensor BI5-Q08-AD4X-V1130

TURCK

Industrial
Automation

Wiring accessories

Type code	Ident no.	Description	Dimension drawing
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	