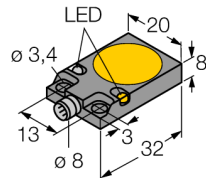
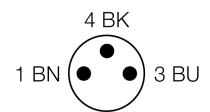
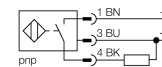


**Inductive sensor  
magnetic field immune  
BI5-Q08-AP6X2-V1131/S34**



- Rectangular, height 8 mm
- Active face on top
- Metal, GD-Zn
- Connector with snap-lock
- Magnetic field immune (weld-resistant) to DC and AC fields
- 3-wire DC, 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. For this purpose they use a high-frequency electromagnetic AC field that interacts with the target. The sensors hosting a ferrite core coil generate the AC field through an LC resonant circuit. Magnetic field sensors incorporate a special ferrite core making them immune to magnetic AC and DC fields. Hence, they can be applied in welding systems.

<b>Type code</b>	BI5-Q08-AP6X2-V1131/S34
Ident no.	1600501
<b>Rated operating distance Sn</b>	5 mm
Mounting condition	flush
Assured sensing range	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
Temperature drift	10 %
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
<b>Operating voltage</b>	10...30VDC
Residual ripple	≤ 10 % U <sub>ss</sub>
DC rated operational current	≤ 200 mA
No-load current I <sub>0</sub>	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I <sub>0</sub>	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Switching frequency	1 kHz
<b>Design</b>	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
<b>Power-on indication</b>	LED green
Switching state	LED yellow

**Inductive sensor  
magnetic field immune  
BI5-Q08-AP6X2-V1131/S34**

Distance D	2 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn

Width of the active face B	20 mm
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**Inductive sensor  
magnetic field immune  
BI5-Q08-AP6X2-V1131/S34**

**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 <a href="http://www.turck.com">www.turck.com</a>	