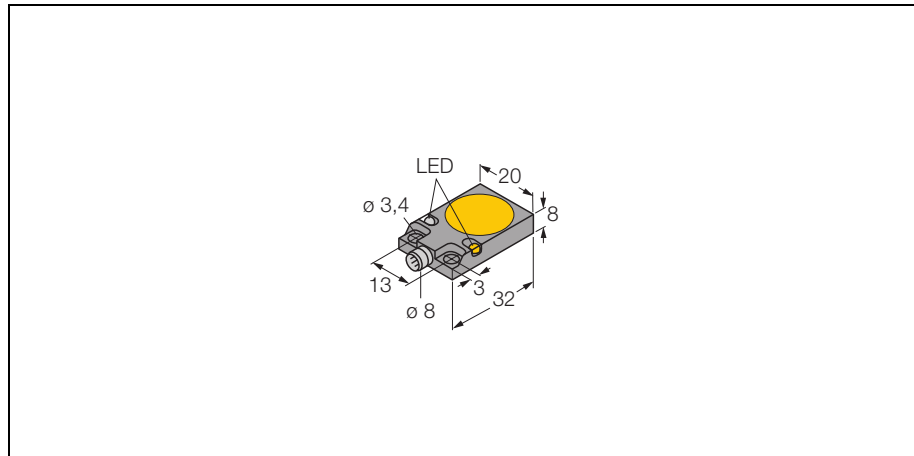
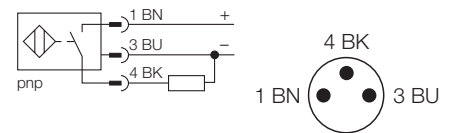


**Inductive sensor
magnetic field immune
Bi5-Q08-AP6X2-V1131/S34**



- Rectangular, height 8mm
- top active face
- metal, GD-Zn
- connector with snap-lock
- magnetic field immunity (welding resistance) to DC and AC fields
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- flange connector, Ø 8 mm

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and non-contact detection of metal objects. For this purpose they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil. Magnetic field sensors incorporate a special ferrite core which makes them immune to magnetic AC and DC fields. They may thus be used in welding applications.

Type	Bi5-Q08-AP6X2-V1131/S34
Ident-No.	1600501
Rated operating distance Sn	5 mm
Mounting condition	flush
Assured sensing range	(0,81 x Sn) mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Repeatability	2 %
Temperature drift	± 10 %
Hysteresis	3... 15 %
Ambient temperature	-25...+ 70 °C
Operating voltage	10... 30VDC
Residual ripple	10 % U _{SS}
DC rated operational current	200 mA
No-load current I ₀	15 mA
Residual current	0.1 mA
Rated insulation voltage	0.5 kV
Short-circuit protection	yes / cyclic
Voltage drop at I _e	1.8V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, pnp
Switching frequency	1 kHz
Housing	rectangular, Q08
Dimensions	32 x 20 x 8 mm
Housing material	metal, GD-Zn
Material active face	plastic, PA12-GF30, yellow
Connection	connectors, flange connector, Ø 8 mm
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Operating voltage display	LED green
Display switch state	LED yellow

Inductive sensor magnetic field immune Bi5-Q08-AP6X2-V1131/S34

Mounting instructions	minimum distances
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

