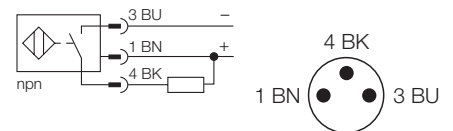


- rectangular, height 8mm
- top active face
- metal, die-cast zinc
- connector with snap-on connection
- factor 1 for all metals
- magnetic field immune
- extended temperature range
- high switching frequency
- 3-wire DC, 10...30 VDC
- normally open npn output
- flange connector, Ø 8 mm

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and non-contact detection of metal objects. Due to a ferrite-less 3-coil system, uprox factor 1 sensors have distinct advantages. They detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.

Type	Bi5U-Q08-AN6X2-V1131
Ident-No.	1608910
Rated operating distance Sn	5 mm
Mounting condition	flush
Assured sensing range	(0,81 x Sn) mm
Repeatability	2 %
Temperature drift	± 10 %
	± 15 %, -25 °C v ≥ +70 °C
Hysteresis	3... 15 %
Ambient temperature	-30...+ 85 °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, npn
Switching frequency	0.25 kHz
Housing	rectangular, Q08
Dimensions	32 x 20 x 8 mm
Housing material	metal, GD-Zn, nickel-plated
Material active face	plastic, PP, 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
Bi5U-Q08-AN6X2-V1131

Mounting instructions	minimum distances
Distance D	40 mm
Distance W	15 mm
Distance G	30 mm

Width of the active face B	20 mm
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