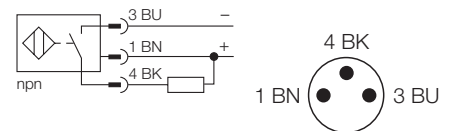


- rectangular, height 8mm
- top active face
- metal, die-cast zinc
- connector with snap-on connection
- factor 1 for all metals
- magnetic field immune
- extended temperature range
- high switching frequency
- 3-wire DC, 10..0.30 VDC
- normally open npn output
- flange connector, Ø 8 mm

Wiring diagram



Function 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 switching distance	≤ (0,81 x Sn) mm
Repetition accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	3... 15 %
Ambient temperature	-30...+ 85 °C
Operating voltage	10... 30 V DC
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 dip at I _e	≤ 1.8 V
Wire breakage / reverse polarity protection	yes / complete
Output function	3-wire, normally open, npn
Switching frequency	≤ 0.25 kHz
Housing style	rectangular; Q08
Dimensions	32x 20x 8mm
Housing material	metal, GD-Zn, black
Material active area	plastic, LCP-GF30, black
Connection	connector, Ø8 mm
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection degree	IP67
Operating voltage display	LED green
Switch state display	LED yellow

Mounting instructions	minimum distances
Distance D	2 x B
Distance W	3 x Sn
Distance G	6 x Sn

Width of the active area B	20 mm
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