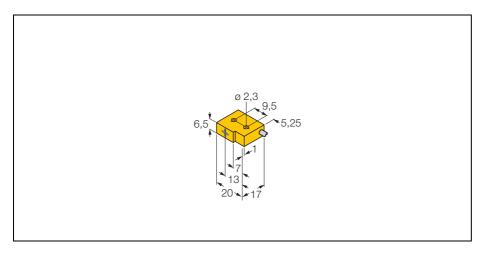
Inductive sensor magnetic field immune Bi1-Q6,5-AP6/S34





Туре	Bi1-Q6,5-AP6/S34
Ident-No.	4613401
Rated operating distance Sn	1 mm
Mounting condition	flush
Assured sensing range	(0,81 x Sn) mm
Correction factors	$St37 = 1$, $V2A \sim 0.7$, $Ms \sim 0.4$, $AI \sim 0.3$
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	150 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	0.03 kHz

rectangular, Q6.5

 $20 \times 17 \times 6.5 \text{ mm}$ plastic, PP GR-20

plastic, PP GR-20

 $3 \times 0.08 \text{mm}^2$ $40 \times 0.05 \text{mm}^2$

55 Hz (1 mm)

30g (11 ms)

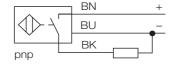
Ø 2, grey, Lif9Y-11Y, PUR, 2 m

cable

IP67

- rectangular, height 6.5 mm
- lateral active face
- plastic, PP GR-20
- magnetic field immunity (welding resistance) to DC and AC fields
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- cable connection

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.

Housing

Dimensions

Cable quality

Litz wire

Housing material

Material active face Connection

Cable cross section:

Vibration resistance

Degree of protection

Shock resistance



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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	6.5 mm

