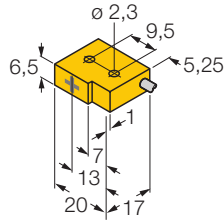
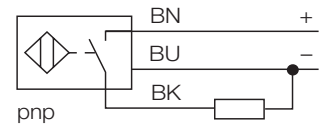


**Inductive sensor
magnetic field immune
Ni2-Q6,5-AP6/S34**



- 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.

Type	Ni2-Q6,5-AP6/S34
Ident-No.	1650023
Rated operating distance Sn	2 mm
Mounting condition	non-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	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
Housing	rectangular, Q6.5
Dimensions	20 x 17 x 6.5 mm
Housing material	plastic, PP GR-20
Material active face	plastic, PP GR-20
Connection	cable
Cable quality	Ø 2, grey, Lif9Y-11Y, PUR, 2 m
Cable cross section:	3 x 0.08mm ²
Litz wire	40 x 0.05mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67

**Inductive sensor
magnetic field immune
Ni2-Q6,5-AP6/S34**

Mounting instructions	minimum distances
Distance D	3 x B
Distance W	3 x Sn
Distance S	1,5 x B
Distance G	6 x Sn
Distance N	2 x Sn

Width of the active face B	6.5 mm
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