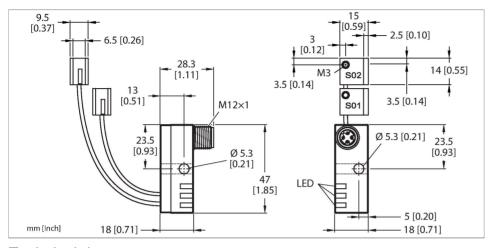


# NI2-Q9.5-AP6-0.1-FS4.4X3/S304 Inductive Sensor - Monitoring Kit for Power Clamps





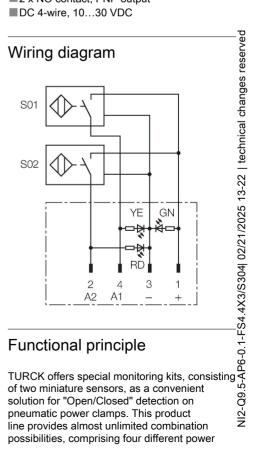
### Technical data

Туре	NI2-Q9.5-AP6-0.1-FS4.4X3/S304
ID	1650060
Special version	S304 Corresponds to:2 × Ni/Bi AP(N)6/S34. Function for DeviceNet. Defined length at connector FS4.4/FS4.4K or FSF5.5/FSF5.5K (with PE connection) or FS4.4X3. Example for order: Ni2-Q6.5- AP6-0.1-FSF4.4X3/S304

	AP0-U.1-F3F4.4A3/33U4
General data	
Rated switching distance	2 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; AI = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
Hysteresis	315 %
Electrical data	
Operating voltage U <sub>B</sub>	1030 VDC
Ripple U <sub>ss</sub>	≤ 10 % U <sub>Bmax</sub>
DC rated operating current I <sub>o</sub>	≤ 150 mA
No-load current	≤ 20 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I。	≤ 1.8 V

## **Features**

- ■Q9,5 power block with two connected sensors and LEDs
- Relocatable block 0°...90°, with cross drilling for flexible cable routing
- Plastic, PP GR-20
- Resistant to magnetic fields (weld-resistant), for DC and AC fields up to 100 mT
- ■2 x NO contact, PNP output
- DC 4-wire, 10...30 VDC



possibilities, comprising four different power



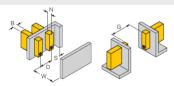
## Technical data

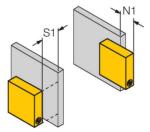
Wire break/reverse polarity protection Complete Output function 4-wire, NO contact, PNP Smallest operating current ≥ 1 mA 0.03 kHz Switching frequency Mechanical data Design Monitoring kit for power clamps, Q9,5 **Dimensions** 47 x 18 x 18 mm Plastic, PBT-GF20-V0 Housing material Active area material Plastic, PP GR-15 Electrical connection Connector, M12 × 1 Ø 2 mm, Gray, Lif9Y-11Y, PUR, 0.1 m Cable quality Core cross-section 3 x 0.08 mm<sup>2</sup> Litz wire 40 x0.05 mm Environmental conditions Ambient temperature -25...+70 °C Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) Protection class **IP67** MTTF 2283 years acc. to SN 29500 (Ed. 99) 40 Power-on indication LED, Green Switching state 2 × LEDs, Yellow/red

blocks and over 40 different modular sensor types.

## Mounting instructions

### Mounting instructions/Description





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 active area B	6.5 mm

Please note, non-flush mounting of this sensor is obligatory.

The following conditions allow semi-flush mounting:

N1 = 0 mm and S1 = 1 mm or

N1 = 1 mm and S1 = 0 mm

These values apply for mounting in aluminium

N1 = 0 mm and S1 = 5 mm or

N1 = 5 mm and S1 = 0 mm



These values apply for mounting in St37.

## Wiring accessories

Dimension drawing Type ID

RKC4.4T-2/TEL 6625013 Connection cable, M12 female connector, straight, 4-pin, cable length:

