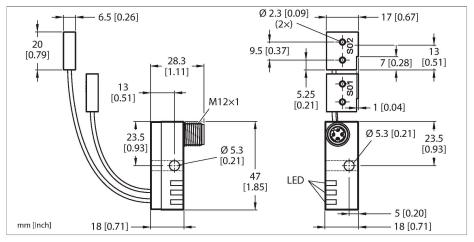


# NI2-Q6.5-AN6-0.1-FS4.4X3/S304 Inductive Sensor – Monitoring Kit for Power Clamps





#### Technical data

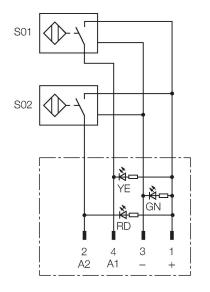
Туре	NI2-Q6.5-AN6-0.1-FS4.4X3/S304
ID	1650079
Special version	S304 Corresponds to:2 × Ni/Bi AP(N)6/S34. Function for DeviceNet. De- fined length at connector FS4.4/FS4.4K or FSF5.5/FSF5.5K (with PE connec- tion) or FS4.4X3. Example for order: Ni2- Q6.5-AP6-0.1-FSF4.4X3/S304

	Q0.5-A1 0-0.1-1 01 4.4/0/0504
General data	
Rated switching distance	2 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; Al = 0.7; stainless steel = 0.75; Ms = 0.45
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>e</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 <sub>e</sub>	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	4-wire, NO contact, NPN
Switching frequency	0.03 kHz

## Features

- Q6,5 power block with two connected sensors and LEDs
- Relocatable block 0°...90°, with cross drilling for flexible cable routing
- ■Plastic, PBT-GF20-V0
- Resistant to magnetic fields (weld-resistant), for DC and AC fields up to 100 mT
- ■2 x NO contact, NPN output
- ■DC 4-wire, 10...30 VDC

## Wiring diagram



## Functional principle

TURCK offers special monitoring kits, consisting of two miniature sensors, as a convenient solution for "Open/Closed" detection on pneumatic power clamps. This product line provides almost unlimited combination possibilities, comprising four



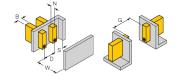
## Technical data

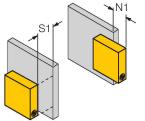
Mechanical data Monitoring Kit for Spanners, Q6,5 Design **Dimensions** 47 x 18 x 18 mm Housing material Plastic, PBT-GF20-V0 Plastic, PP GR-15 Active area material Electrical connection Connector, M12 × 1 Cable quality Ø 2 mm, Gray, Lif9Y-11Y, PUR, 0.1 m Core cross-section 3 x 0.08 mm<sup>2</sup> Litz wire 40 x0.05 mm **Environmental conditions** -25...+70 °C Ambient temperature 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 2 × LEDs, Yellow/red Switching state Screw M5 x 25 DIN 912 Included in delivery

different power 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.