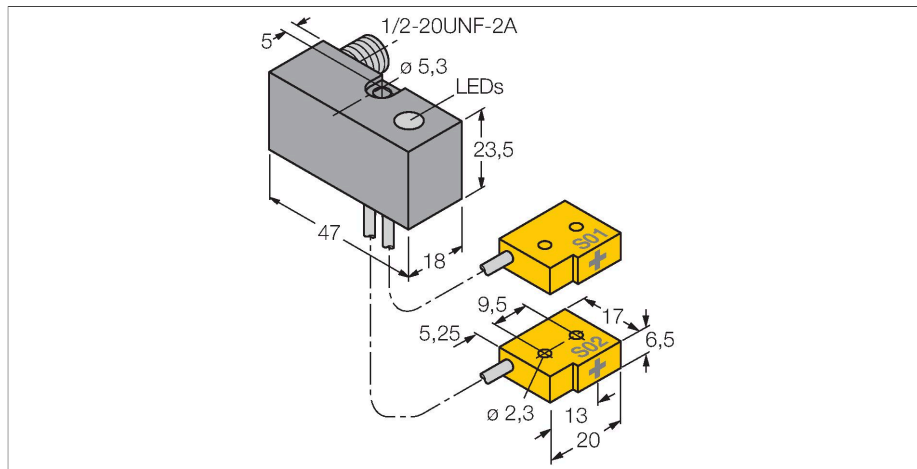


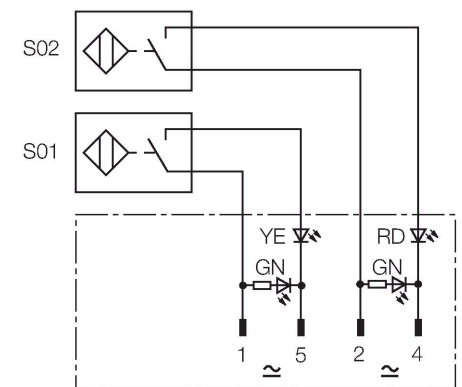
NI2-Q6.5-ADZ32-0.16-FSB5.4X4/S304 Inductive Sensor – Monitoring Kit for Power Clamps



Features

- Rectangular, height 23.5 mm
- Plastic, PBT-GF20-V0
- Resistant to magnetic fields (weld-resistant), for DC and AC fields up to 100 mT
- AC 4-wire, 20...250 VDC
- DC 4-wire, 10...300 VDC
- 2 x NO contact
- 1/2" male connector

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 different power blocks and over 40 different modular sensor types.

Technical data

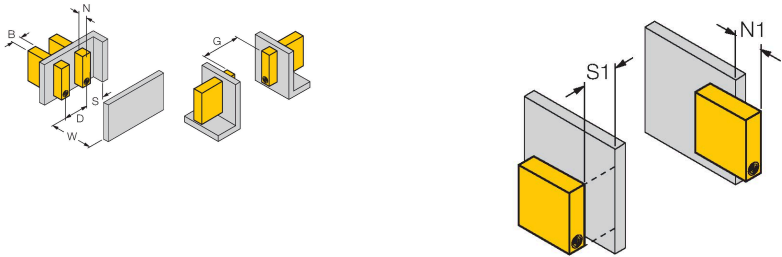
Type	NI2-Q6.5-ADZ32-0.16-FSB5.4X4/S304
ID	4200203
Special version	S304 corresponds to: 2 x Ni./Bi...-AP(N)6/S34. Function for DeviceNet. Defined length at connector FS4.4/FS4.4K or FSF5.5/FSF5.5K (with PE connection) or FS4.4X3. Example for order : Ni2-Q6.5-AP6-0.1-FSF4.4X3/S304

General data	
Rated switching distance	2 mm
Mounting conditions	Non-flush
Secured operating distance	$\leq (0.81 \times S_n)$ mm
Correction factors	St37 = 1; Al = 0.7; stainless steel = 0.75; Ms = 0.45
Repeat accuracy	≤ 2 % of full scale
Temperature drift	$\leq \pm 10$ %
Hysteresis	3...15 %
Electrical data	
Operating voltage	20...250 VAC
Operating voltage	10...300 VDC
AC rated operational current	≤ 100 mA
DC rated operational current	≤ 100 mA
Frequency	$\geq 50... \leq 60$ Hz
Residual current	≤ 1.7 mA
Isolation test voltage	≤ 1.5 kV
Surge current	≤ 1 A (≤ 10 ms max. 5 Hz)
Short-circuit protection	yes / Latching
Voltage drop at I_o	≤ 6 V

Technical data

Wire breakage/Reverse polarity protection	yes / Complete
Output function	4-wire, 2 normally open contact, 2-wire
Smallest operating current	≥ 3 mA
Switching frequency	0.02 kHz
Mechanical data	
Design	Monitoring Kit for Spanners, Q6,5
Dimensions	47 x 18 x 23.5 mm
Housing material	Metal, PBT-GF20-V0
Active area material	Plastic, PP GR-20
Electrical connection	Connector, 1/2"
Cable quality	Ø 2 mm, Gray, Lif9Y-11Y, PUR, 0.16 m
Core cross-section	3 x 0.08 mm ²
Litz wire	40 x 0.05 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 °C
Power-on indication	2 × LEDs, Green
Switching state	2 × LEDs, Yellow/red

Mounting instructions

Mounting instructions/Description													
	<table><tr><td>Distance D</td><td>3 x B</td></tr><tr><td>Distance W</td><td>3 x Sn</td></tr><tr><td>Distance S</td><td>1.5 x B</td></tr><tr><td>Distance G</td><td>6 x Sn</td></tr><tr><td>Distance N</td><td>2 x Sn</td></tr><tr><td>Width active area B</td><td>6.5 mm</td></tr></table>	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
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.

