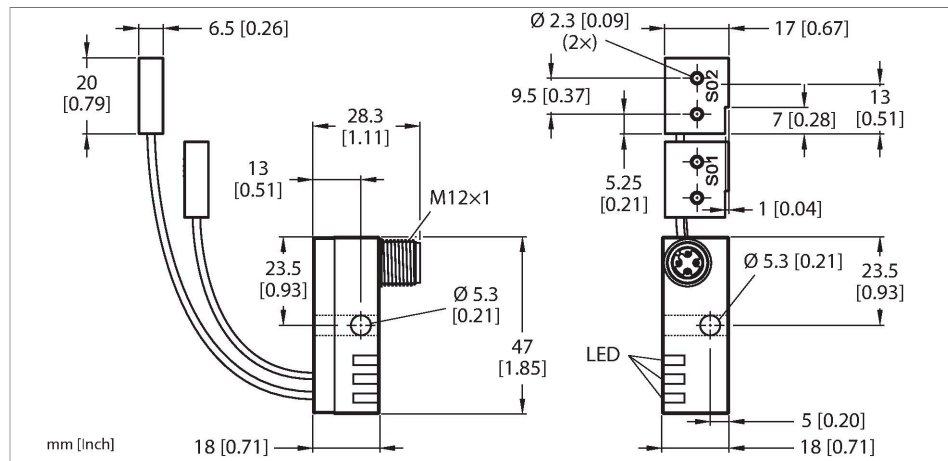


NI2-Q6.5-AP6-0.2-FS4.4X3/S304 Inductive Sensor – Monitoring Kit for Power Clamps



Technical data

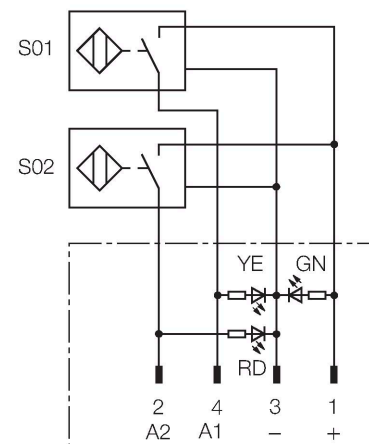
Type	NI2-Q6.5-AP6-0.2-FS4.4X3/S304
ID	1650047
Special version	S304 Corresponds to: 2 x Ni./Bi.-...-AP(N)6/S34. Function for DeviceNet. Defined length at connector FS4.4/FS4.4K or FSF5.5/FSF5.5K (with PE connection) or FS4.4X3. Example for order : Ni2-Q6.5-AP6-0.1-FSF4.4X3/S304

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 U_B	10...30 VDC
Ripple U_{ss}	≤ 10 % U_{Bmax}
DC rated operating current I_o	≤ 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_o	≤ 1.8 V

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, PNP output
- DC 4-wire, 10...30 VDC

Wiring diagram



Functional principle

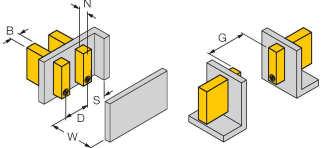
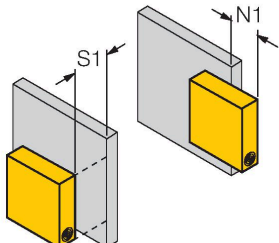
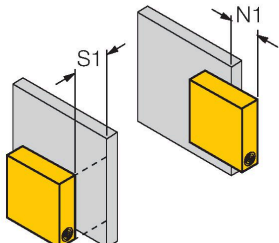
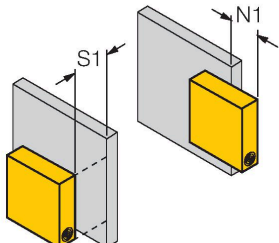
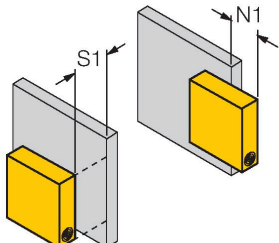
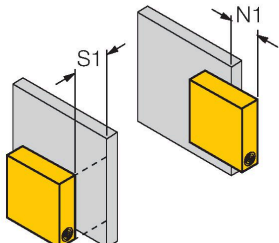
TURCK offers special monitoring kits, consisting of two miniature sensors, as a convenient solution for "Open/Closed" detection on pneumatic power clamps. This product line provides almost unlimited combination possibilities, comprising four different power

Technical data

blocks and over 40 different modular sensor types.

Wire break/reverse polarity protection	Complete
Output function	4-wire, NO contact, PNP
Smallest operating current	≥ 1 mA
Switching frequency	0.03 kHz
Mechanical data	
Design	Monitoring kit for power clamps, Q6,5
Dimensions	47 x 18 x 18 mm
Housing material	Plastic, PBT-GF20-V0
Active area material	Plastic, PP GR-15
Electrical connection	Connector, M12 x 1
Cable quality	Ø 2 mm, Gray, Lif9Y-11Y, PUR, 0.2 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	LED, Green
Switching state	2 x LEDs, Yellow/red
Included in delivery	Screw M5 x 25 DIN 912

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
<p>Please note, non-flush mounting of this sensor is obligatory.</p> <p>The following conditions allow semi-flush mounting:</p> <p>N1 = 0 mm and S1 = 1 mm or N1 = 1 mm and S1 = 0 mm These values apply for mounting in aluminium</p>	

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: 2 m, jacket material: PVC, black; cULus approval

