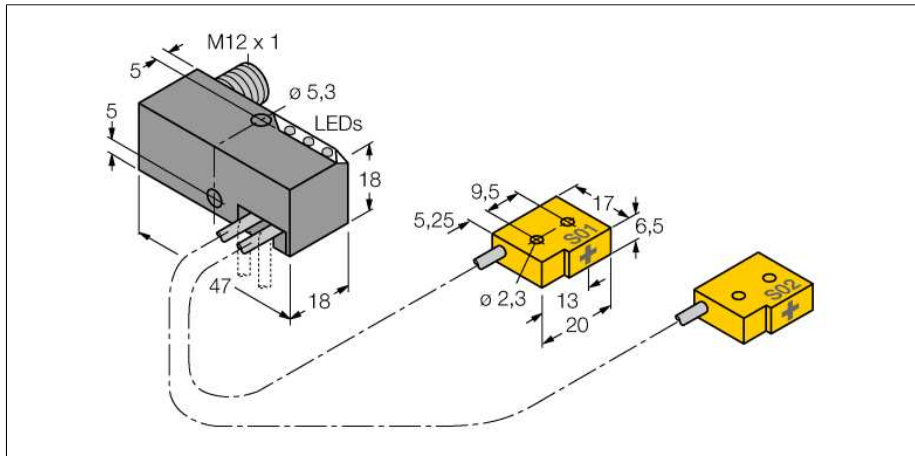


**Inductive sensor
power clamp monitor
NI2-Q6,5-AP6-0,1-FS4.4X3/S304**

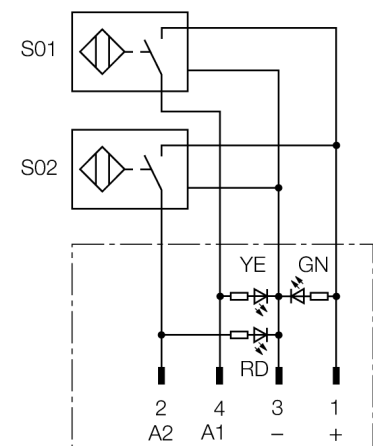
TURCK

Industrial
Automation



- Q6.5 power block with two connected sensors and LEDs
- Adaptable block position 0°...90°, with cross drilling for flexible cable routing
- Plastic, PBT-GF20-V0
- Magnetic field immune (weld-resistant) to DC and AC fields
- 2 x NO contacts, 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 blocks and over forty different modular sensor types.

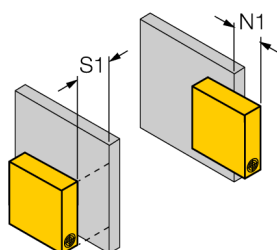
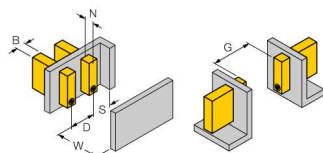
Type code	NI2-Q6,5-AP6-0,1-FS4.4X3/S304
Ident no.	1650048
Rated operating distance Sn	2 mm
Mounting condition	non-flush
Assured sensing range	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
Temperaturdrift	10 %
Hysteresis	3...15 %
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	≤ 20 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I ₀	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	4-wire, NO contact, PNP
Smallest operating current I _m	≤ 1 mA
Protection class	IP67
Switching frequency	0.03 kHz
Design	monitoring kit for clamping technology, Q6.5
Dimensions	47x 18x 18 mm
Housing material	Metal, PBT
Material active face	Plastic, PP
Connection	male, M12 x 1
Cable quality	2 mm, grey, Lif9Y-11Y, PUR, 0.1 m
Cable cross section	3 x 0.08 mm ²
Litz wire	40x0.05mm ²
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
Operating voltage	LED green
Switching state	●● yellow / red
Included in scope of supply	Screw M5 x 25 DIN 912

**Inductive sensor
power clamp monitor
NI2-Q6,5-AP6-0,1-FS4.4X3/S304**

TURCK

Industrial
Automation

Mounting instructions / Description	minimum distances
Distance D	$3 \times B$
Distance W	$3 \times S_n$
Distance S	$1.5 \times B$
Distance G	$6 \times S_n$
Distance N	$2 \times S_n$
Width of the active face B	6.5 mm



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

The following conditions allow semi-flush mounting:

$N1 = 0 \text{ mm}$ and $S1 = 1 \text{ mm}$ or

$N1 = 1 \text{ mm}$ and $S1 = 0 \text{ mm}$

These values apply for mounting in aluminium

$N1 = 0 \text{ mm}$ and $S1 = 5 \text{ mm}$ or

$N1 = 5 \text{ mm}$ and $S1 = 0 \text{ mm}$

These values apply for mounting in St37.