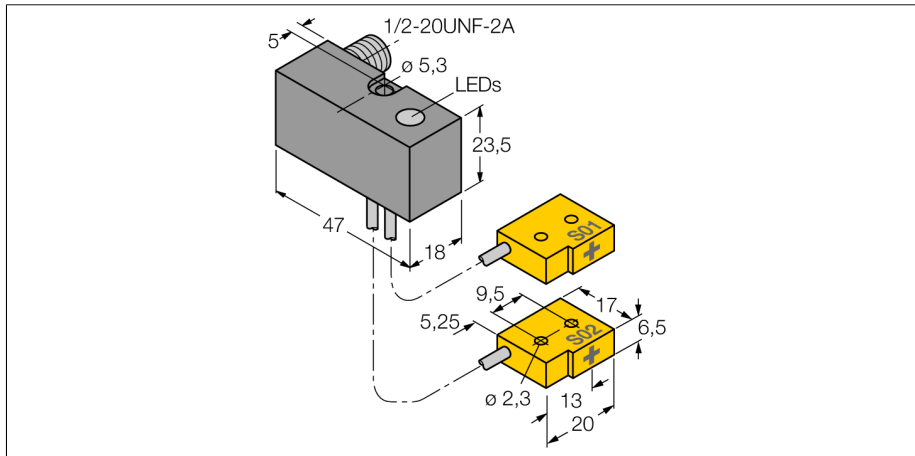


**Inductive sensor
power clamp monitor
NI2-Q6,5-ADZ32-0,1-FSB5.4X4/ S304**

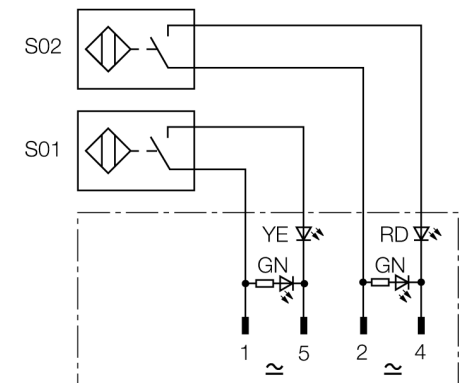
TURCK

Industrial
Automation



- Rectangular, height 23.5 mm
- Plastic, PBT-GF20-V0
- Magnetic field immune (weld-resistant) to DC and AC fields
- AC 4-wire, 20...250 VAC
- DC 4-wire, 10...300 VDC
- 2 x NO
- Connector, 1/2"

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.

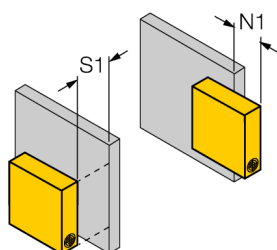
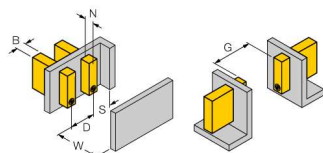
Type code	NI2-Q6,5-ADZ32-0,1-FSB5.4X4/ S304
Ident no.	4200204
Rated operating distance Sn	2 mm
Mounting condition	non-flush
Assured sensing range	$\leq (0,81 \times S_n)$ mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
Temperaturdrift	10 %
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
Operating voltage	20...250 VAC
Operating voltage	10...300VDC
AC rated operational current	≤ 100 mA
DC rated operational current	≤ 100 mA
Frequency	$\geq 50... \leq 60$ Hz
Residual current	≤ 1.7 mA
Rated insulation voltage	≤ 1.5 kV
Surge current	≤ 1 A (≤ 10 ms max. 5 Hz)
Short-circuit protection	yes/ latching
Voltage drop at I_s	≤ 6 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	4-wire, 2x NO
Smallest operating current I_m	≤ 3 mA
Switching frequency	0.03 kHz
Design	monitoring kit for clamping technology, Q6.5
Dimensions	47x 18x 23.5 mm
Housing material	Metal, PBT
Material active face	Plastic, PP
Connection	male, 1/2"
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	2 x LEDs green
Switching state	●● yellow / red

**Inductive sensor
power clamp monitor
NI2-Q6,5-ADZ32-0,1-FSB5.4X4/ 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.