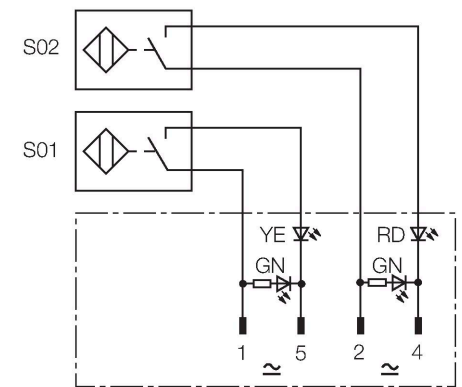


NI2-ISI-0.055-BA-2ADZ32X4-B3151/S34wISI1 Inductive sensor – Monitoring Kit for Power Clamps

Features

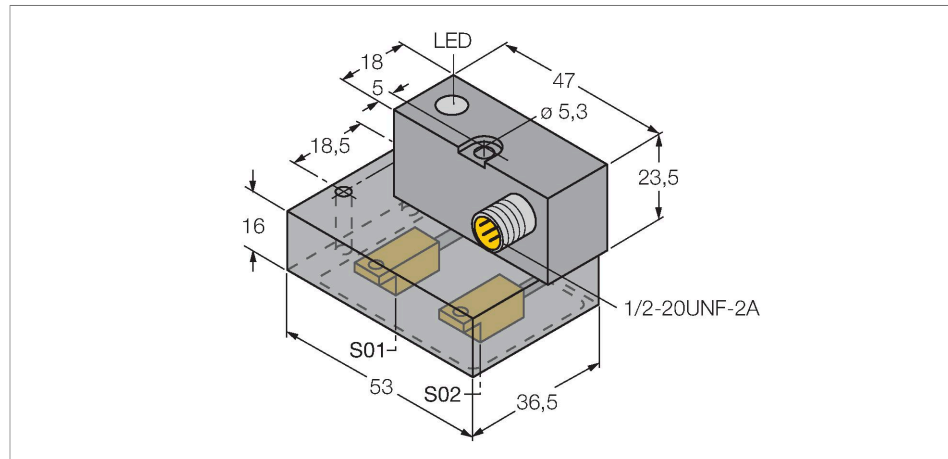
- Rectangular, height 23.5 + 16 mm
- Plastic, PBT-GF20-V0
- Resistant to magnetic fields (weld-resistant), for DC and AC fields up to 100 mT
- AC 4-wire, 20...250 VDC
- DC 4-wire, 10...300 VDC
- 2 x NO contact
- 1/2" male connector

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

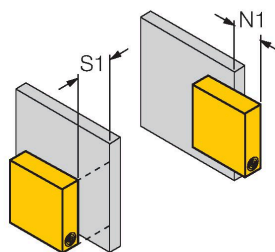
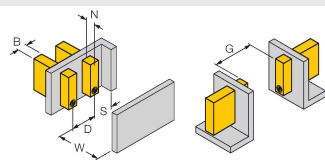
Type	NI2-ISI-0.055-BA-2ADZ32X4-B3151/S34wISI1
Ident. no.	4200230
Special version	S34 = Weld-field immune proximity sensors
Rated switching distance	2 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
Operating voltage	20...250 VAC
Operating voltage	10...300 VDC
AC rated operational current	≤ 100 mA
DC rated operational current	≤ 100 mA
Frequency	≥ 50...≤ 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	≤ 6 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	4-wire, 2 x NO contact
Smallest operating current	≥ 3 mA

Technical data

Switching frequency	0.02 kHz
Design	Monitoring kit for power clamps, ISI
Dimensions	53 x 36,5 x 39,5 mm
Housing material	Metal, PP GR-20
Active area material	Plastic, PP GR-20
Electrical connection	Connector, 1/2"
Cable quality	Ø 2 mm, Gray, Lif9Y-11Y, PUR, 0.055 m
Core cross-section	3 x 0.08 mm ²
Litz wire	40 x 0.05 mm
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 x LEDs, 2 x green
Switching state	2 x LEDs, Yellow/Red

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.