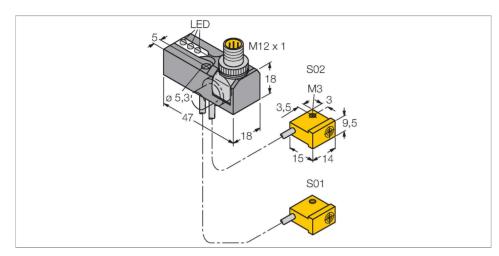


NI2-Q9.5-0.1-BDS-2AP6X3-H1141/S34 Inductive Sensor - Monitoring Kit for Power Clamps



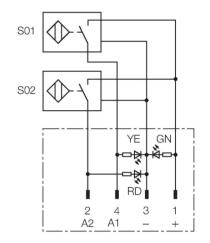
Technical data

| Туре | NI2-Q9.5-0.1-BDS-2AP6X3-H1141/S34 |
|---|--|
| ID | 1650099 |
| Special version | S34 Corresponds to:Weld-field immune proximity sensors |
| General data | |
| Rated switching distance | 2 mm |
| Mounting conditions | Non-flush |
| Secured operating distance | ≤ (0.81 × Sn) mm |
| Correction factors | St37 = 1; AI = 0.3; stainless steel = 0.7; Ms = 0.4 |
| Repeat accuracy | ≤ 2 % of full scale |
| Temperature drift | ≤ ±10 % |
| Hysteresis | 315 % |
| Electrical data | |
| Operating voltage U _B | 1030 VDC |
| Ripple U _{ss} | ≤ 10 % U _{Bmax} |
| DC rated operating current I _e | ≤ 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 _e | ≤ 1.8 V |
| Wire break/reverse polarity protection | Complete |
| Output function | 4-wire, NO contact, PNP |
| Smallest operating current | ≥ 1 mA |

Features

- Rectangular, height 18 mm
- Plastic, Trogamid
- Relocatable connector
- 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 blocks and over 40 different modular sensor types.

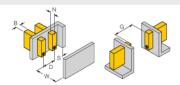


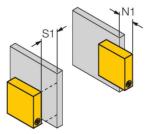
Technical data

| Switching frequency | 0.03 kHz |
|--------------------------|--|
| Mechanical data | |
| Design | Monitoring kit for power clamps, Q9,5 |
| Dimensions | 47 x 18 x 18 mm |
| Housing material | Plastic, Trogamit |
| Active area material | Plastic, PP GR-20 |
| Electrical connection | Connector, M12 × 1 |
| Cable quality | Ø 2 mm, Gray, Lif9Y-11Y, PUR, 0.1 m |
| Core cross-section | 3 x 0.08 mm ² |
| Litz wire | 40 x0.05 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 × 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.

Dimension drawing



Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval