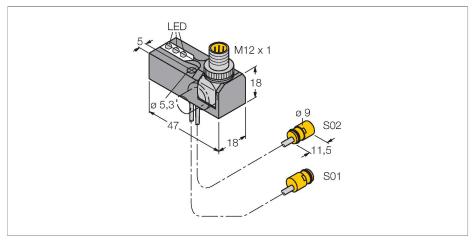


# NI2-K09-0.095/0.11-BDS-2AP6X3-H1141/S34 Inductive Sensor – Monitoring Kit for Power Clamps



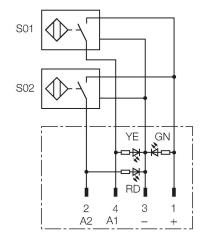
#### Technical data

Type N	NI2-K09-0.095/0.11-BDS-2AP6X3- H1141/S34
ID 1	1650039
	S34 Corresponds to:Resistant to magnet- c fields
General data	
Rated switching distance 1	1.2 mm
F	For S01 sensor, 2 mm for S02 sensor
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy ≤	≤ 2 % of full scale
Temperature drift	≤ ±10 %
Hysteresis 3	315 %
Electrical data	
Operating voltage U <sub>B</sub>	1030 VDC
Ripple U <sub>ss</sub>	≤ 10 % U <sub>Bmax</sub>
DC rated operating current I <sub>e</sub> ≤	≤ 200 mA
No-load current ≤	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage 0	0.5 kV
Short-circuit protection y	yes/Thermal
Voltage drop at I₀ ≤	≤ 1.8 V
Wire break/reverse polarity protection	Complete
Output function 4	4-wire, NO contact, PNP
Smallest operating current ≥	≥ 1 mA
Switching frequency 0	0.03 kHz

#### **Features**

- ■BDS power block with two connected sensors and LEDs
- Robust rotatable connector 0°, 45° and 90°, for optimal cable routing
- Plastic, Trogamid
- 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

Mechanical data	
Design	Monitoring Kit for Spanners, K09
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, 0.095 m, 0.11 m
Core cross-section	3 x 0.08 mm²
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



The sensor should only be mounted in the correspondent retainer.

The sensor is adjusted to the mounting characteristics of the retainer. Deviant mounting may cause unpredictable performance of the sensor.
Flush mounting without leaving a gap may lead to uncontrolled switching of the sensor.



### Accessories

Dimension drawing Type ID

RKC4.4T-2/TEL 6625013 Connection cable, M12 female



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