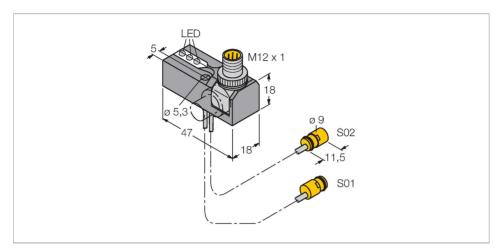


NI2-K09-0.095/0.11-BDS-2AP6X3-H1141/S34 Inductive Sensor - Monitoring Kit for Power Clamps



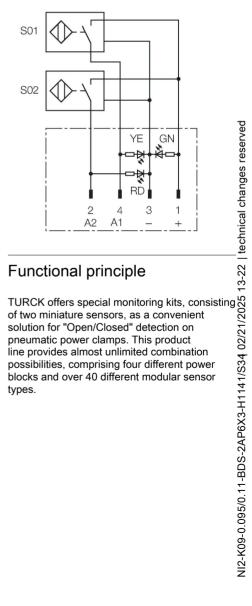
Technical data

Туре	NI2-K09-0.095/0.11-BDS-2AP6X3-H1141/ S34
ID	1650039
Special version	S34 Corresponds to:Weld-field immune proximity sensors
General data	
Rated switching distance	1.2 mm
	For S01 sensor, 2 mm for S02 sensor
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × 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	315 %
Electrical data	
Operating voltage U _B	1030 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _o	≤ 200 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Thermal
Voltage drop at I _e	≤ 1.8 V
Wire break/reverse polarity protection	Complete

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



Technical data

Output function	4-wire, NO contact, PNP
Smallest operating current	≥ 1 mA
Switching frequency	0.03 kHz
Mechanical data	
Design	Monitoring kit for power clamps, 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.



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