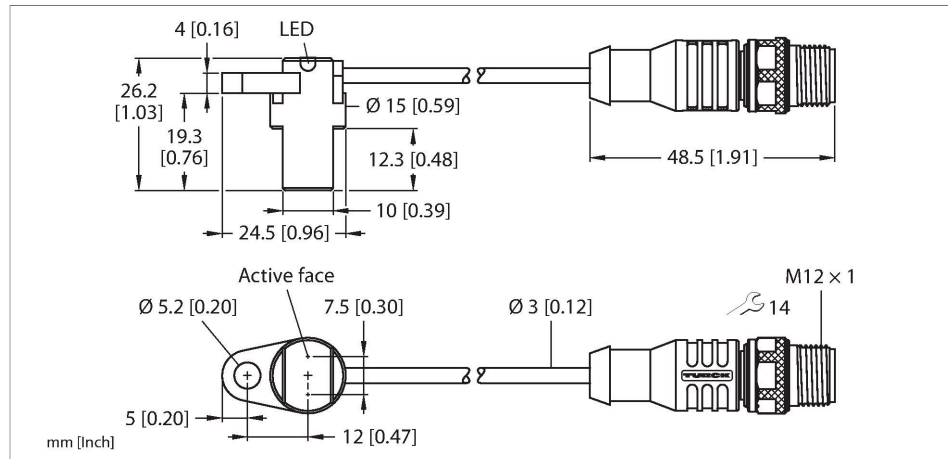


# NI1.5-KS26-2AP6X2-0.3-RS4.4T/S34

## Inductive Sensor – Monitoring Kit for Power Clamps



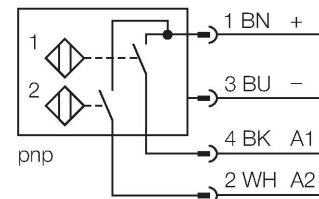
## Technical data

Type	NI1.5-KS26-2AP6X2-0.3-RS4.4T/S34
ID	4430118
Special version	S34 Corresponds to:Weld-field immune proximity sensors
General data	
Rated switching distance	1.5 mm
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	3...15 %
Electrical data	
Operating voltage U <sub>B</sub>	10...30 VDC
Ripple U <sub>ss</sub>	≤ 10 % U <sub>Bmax</sub>
DC rated operating current I <sub>e</sub>	≤ 100 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I <sub>e</sub>	≤ 1.8 V
Wire break/reverse polarity protection	Complete
Output function	4-wire, NO contact, PNP
Switching frequency	0.5 kHz

## Features

- Compact power clamp monitoring KS26 with two sensors and LEDs
- Active faces, radial
- Plastic, PP-GR20, yellow
- Cable: PUR
- Resistant to magnetic fields (weld-resistant), for DC and AC fields
- Acc. to standard EN 60947-5-2
- Acc. to standard EN 61000-4-3
- Acc. to standard E03.75.020.N (7.2.6.1 CEM)
- 2 x NO contact, PNP output
- DC 4-wire, 10...30 VDC

## Wiring diagram



## Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

## Technical data

Mechanical data	
Design	Monitoring kit for power clamps, KS26
Dimensions	26 x 15 x 25 mm
Housing material	Plastic, PP GR-20
Active area material	Plastic, PP GR-20
Electrical connection	Connector, M12 × 1
Cable quality	Ø 3 mm, Gray, Lif9Y-11YFHF, PUR, 0.3 m
Core cross-section	4 x 0.14 mm <sup>2</sup>
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
Switching state	2 × LEDs, Green/yellow