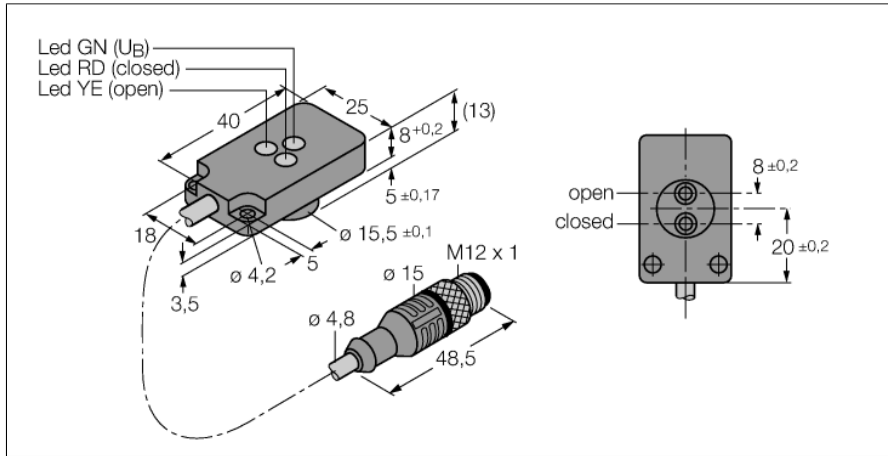
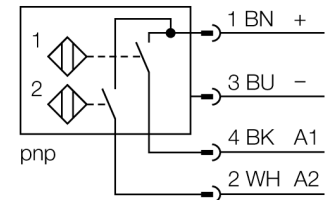


# Inductive Sensor (Axial) Monitoring Kit for Power Clamps NI1.5-KS13A-2AP6X3-0.2-RS4.4T/S34



- Compact power clamp monitoring KS13A with two sensors and LEDs
- Active face, axial
- Plastic, PBT-GF20-V0, yellow
- Mounting holes with stainless steel sleeves
- Cable: Irradiation crosslinked PUR
- 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

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.

Type	NI1.5-KS13A-2AP6X3-0.2-RS4.4T/S34
ID	4430120
Special version	S34 corresponds to: Resistant to magnetic fields

General data	
Rated switching distance $S_n$	1.5 mm
Mounting conditions	Non-flush
Secured operating distance	$\leq (0.81 \times S_n)$ mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	$\leq 2\%$ of full scale
Temperature drift	$\leq \pm 10\%$
Hysteresis	3...15 %

Electrical data	
Operating voltage	10...30 VDC
Residual ripple	$\leq 10\% U_{in}$
DC rated operational current	$\leq 150$ mA
Residual current	$\leq 0.1$ mA
Isolation test voltage	$\leq 0.5$ kV
Short-circuit protection	yes/ Cyclic
Voltage drop at $I_n$	$\leq 1.5$ V
Output function	4-wire, NO contact, PNP
Switching frequency	0.5 kHz

Mechanical data	
Design	Monitoring Kit for Spanners, KS13
Dimensions	40 x 25 x 13 mm
Housing material	Metal, PBT-GF20-V0
Active area material	Plastic, PBT
Electrical connection	Connector, M12 x 1
Cable quality	$\varnothing 4.8$ mm, Orange, D12YSL11X-OB, PUR, 0.2 m
Core cross-section	4 x 0.34 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
Power-on indication	
Switching state	LED, Green
	2 × LEDs, Yellow/red