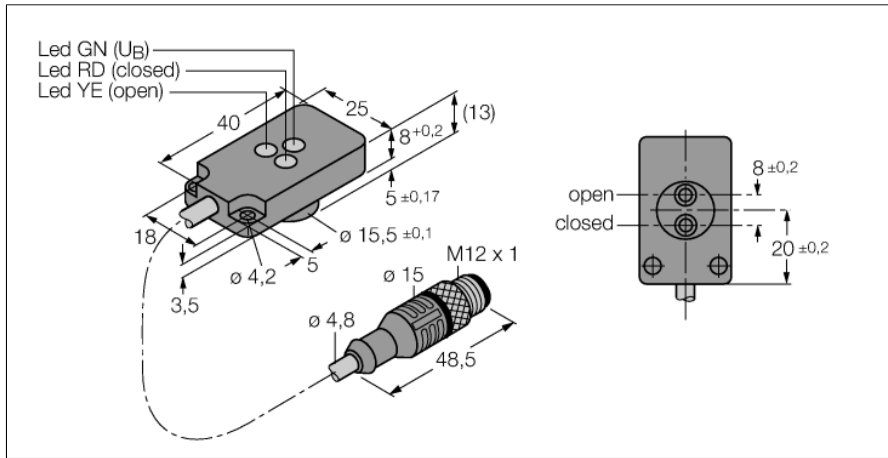
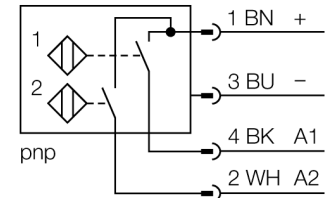


**Inductive sensor (axial)
power clamp monitor
NI1,5-KS13A-2AP6X3-0,2-RS4.4T/S34**



- 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
- Magnetic field immune (weld-resistant) to DC and AC fields
- 2 x NO contact, PNP output
- 4-wire DC, 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 code	NI1,5-KS13A-2AP6X3-0,2-RS4.4T/S34
Ident no.	4430120
Rated operating distance Sn	1.5 mm
Mounting condition	non-flush
Assured sensing range	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
Temperature drift	10 %
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
Operating voltage	10...30VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 150 mA
No-load current I ₀	≤ 20 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I ₀	≤ 1.5 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	4-wire, NO contact, PNP
Switching frequency	0.5 kHz
Design	monitoring kit for clamping technology, KS13
Dimensions	40 x 25 x 13 mm
Housing material	metal, PBT
Material active area	Plastic, PBT
Connection	male, M12 x 1
Cable quality	4.8 mm, orange, D12YSL11X-OB, PUR, 0.2 m
Cable cross section	4 x 0.34 mm ²
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	LED yellow / red