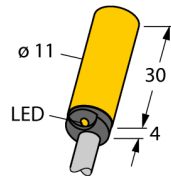


Inductive sensor

NI5-K11K-AN5X/5 1M

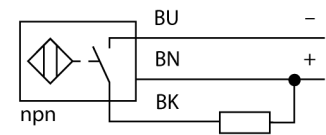
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- Smooth barrel, Ø 11 mm
- Plastic, PA12-GF30
- DC 3-wire, 4.75...5.25 VDC
- NO contact, NPN output
- TTL compatible
- Cable connection

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	NI5-K11K-AN5X/5 1M
Ident-No.	1510610
Ident-No (TUSA)	M1510610
Special features	Customer specific print on sensor and product card
Rated switching distance Sn	5 mm
Mounting conditions	non-flush
Assured switching distance	≤ (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	1...10 %
Ambient temperature	-25...+70 °C
Operating voltage	4.75...5.25VDC
Residual ripple	≤ 10 % U _s
DC rated operational current	≤ 50 mA
No-load current I ₀	≤ 6 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	no
Voltage drop at I ₀	≤ 0.1 V
Wire breakage / Reverse polarity protection	yes
Output function	3-wire, NO contact, NPN
Switching frequency	1.5 kHz
Construction	smooth barrel, 11 mm
Dimensions	34 mm
Housing material	plastic, PA
Material active area	plastic, PA
End cap	Plastic, EPTR
Connection	cable
Cable quality	5.2 mm, LifYY, PVC, 1m
Cable cross section	3 x 0.34 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
IP Rating	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED yellow
Included in delivery	BS11

Inductive sensor NI5-K11K-AN5X/5 1M

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Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn

Diameter of the active area B \varnothing 11 mm

