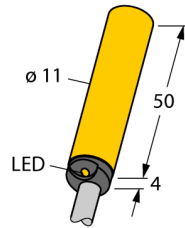


Inductive sensor Ni5-K11-AN6X

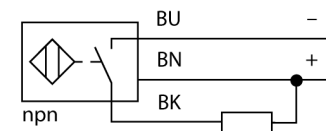
TURCK

Industrial
Automation



- Smooth barrel, Ø 11 mm
- Plastic, PA12-GF30
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- 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.

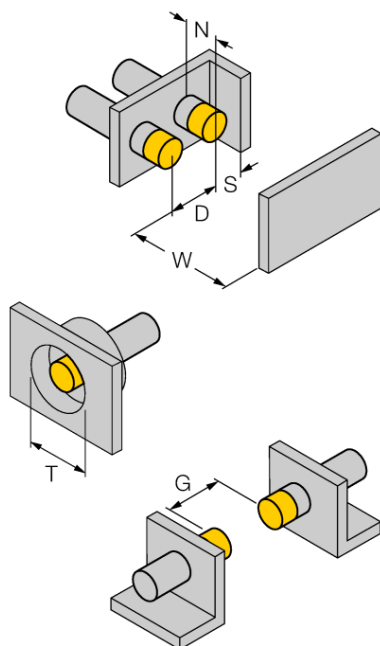
Type code	Ni5-K11-AN6X
Ident no.	46612
Rated switching distance Sn	5 mm
Mounting conditions	non-flush
Assured switching distance	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
Operating voltage	10...30VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I ₀	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, NPN
Switching frequency	1.5 kHz
Construction	smooth barrel, 11 mm
Dimensions	54 mm
Housing material	plastic, PA
Material active area	plastic, PA
End cap	Plastic, EPTR
Connection	cable
Cable quality	5.2 mm, LifYY, PVC, 2m
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-K11-AN6X

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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	Ø 11 mm
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Inductive sensor
Ni5-K11-AN6X



Accessories

Type code	Ident no.	Description	Design
BS 11	69462	Fixing clamp; material mounting block: PBT	