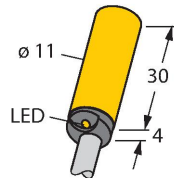


NI5-K11K-AN5X/5 0.6M

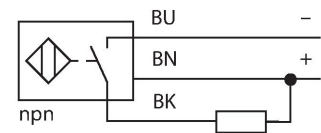
Inductive Sensor



Features

- 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



Technical data

Type	NI5-K11K-AN5X/5 0.6M
ID	1510615
Remark to product	Customized printing on sensor and leaflets
General data	
Rated switching distance	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	≤ 2 % of full scale
Temperature drift	$\leq \pm 10$ %
Hysteresis	1...10 %
Electrical data	
Operating voltage U_B	4.75...5.25 VDC
Ripple U_{rs}	≤ 10 % U_{Bmax}
DC rated operating current I_B	≤ 50 mA
No-load current	≤ 6 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I_B	≤ 0.1 V
Wire break/reverse polarity protection	yes
Output function	3-wire, NO contact, NPN
Switching frequency	1.5 kHz

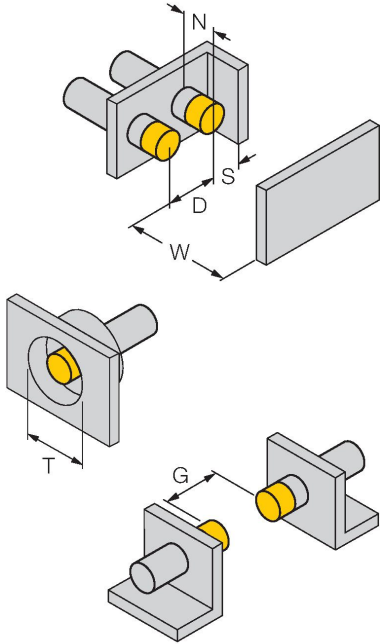
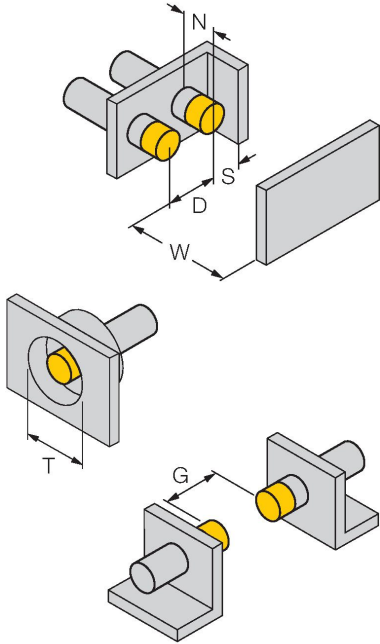
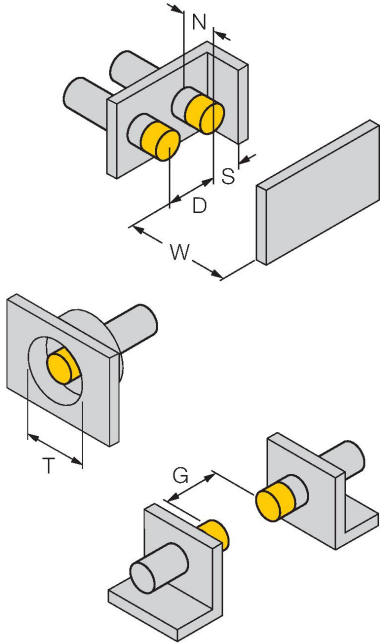
Functional principle

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	Smooth barrel, 11 mm
Dimensions	34 mm
Housing material	Plastic, PA12-GF30
Active area material	Plastic, PA12-GF30
End cap	Plastic, EPTR
Electrical connection	Cable
Cable quality	Ø 5.2 mm, LifYY, PVC, 0.6 m
Core cross-section	3 x 0.34 mm ²
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	LED, Yellow
Included in delivery	BS11

Mounting instructions

Mounting instructions/Description	
	Distance D
	3 x B
	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 active area B
	Ø 11 mm

Accessories

BS 11

69462

Fixing clamp; material mounting
block: PBT

