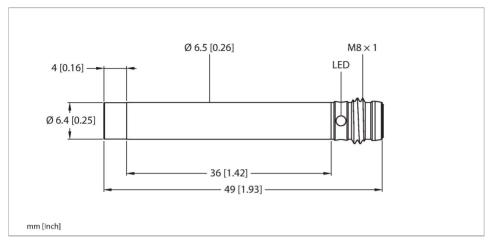


NI3-EH6.5-AN6X-V1131 Inductive Sensor



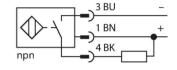
Technical data

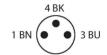
Туре	NI3-EH6.5-AN6X-V1131		
Ident. no.	4612520		
Rated switching distance	3 mm		
Mounting conditions	Non-flush		
Secured operating distance	≤ (0.81 × Sn) mm		
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4		
Repeat accuracy	≤ 2 % of full scale		
Temperature drift	≤ ± 10 %		
Hysteresis	20 %		
Ambient temperature	-25+70 °C		
Operating voltage	1030 VDC		
Residual ripple	≤ 10 % U _{ss}		
DC rated operational current	≤ 150 mA		
No-load current	≤ 15 mA		
Residual current	≤ 0.1 mA		
Isolation test voltage	≤ 0.5 kV		
Short-circuit protection	yes / Cyclic		
Voltage drop at I _e	≤ 1.8 V		
Wire breakage/Reverse polarity protection	yes / Complete		
Output function	3-wire, NO contact, NPN		
Switching frequency	3 kHz		
Design	Smooth barrel, 6.5 mm		
Dimensions	49 mm		

Features

- Smooth barrel, Ø 6.5 mm
 Stainless steel, 1.4305 (AISI 303)
- ■DC 3-wire, 10...30 VDC ■NO contact, NPN output
- ■M8 x 1 male connector

Wiring diagram





Functional principle

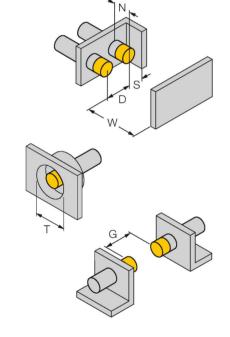
Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

Technical data

Housing material	Stainless steel, 1.4305 (AISI 303)
Active area material	Plastic, PBT
Electrical connection	Connector, M8 × 1
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

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 6.5 mm

Wiring accessories

Dimension drawing	Туре	ldent. no.
	PKGV3M-2/TEL	6625385



Connection cable, female M8, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com