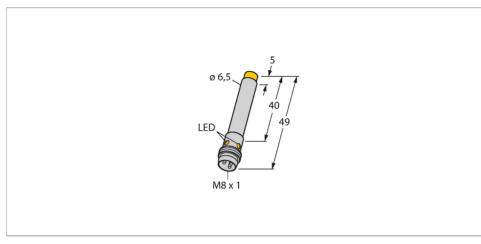


NI4U-EH6.5-AP6X-V1131 **Inductive Sensor**



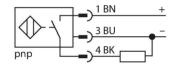
Technical data

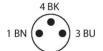
Туре	NI4U-EH6.5-AP6X-V1131
ID	4600681
General data	100001
Rated switching distance	4 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	315 %
Electrical data	
Operating voltage U _B	1030 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _o	≤ 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。	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, PNP
DC field stability	200 mT
AC field stability	200 mT _{ss}
Insulation class	2

Features

- ■Smooth barrel, Ø 6.5 mm
- Stainless steel, 1.4427 SO
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■M8 x 1 male connector

Wiring diagram





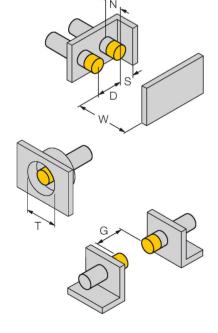


Technical data

Switching frequency	2 kHz
Mechanical data	
Design	Smooth barrel, 6,5 mm
Dimensions	49 mm
Housing material	Stainless steel, 1.4427 SO
Active area material	Plastic, PA12-GF20
Electrical connection	Connector, M8 × 1
Environmental conditions	
Ambient temperature	-30+85 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

Mounting instructions

Mounting instructions/Description



Distance W 3 x Sn Distance T 4 x B Distance S 1.5 x B Distance G 6 x Sn Distance N 2 x Sn Diameter active area B	Distance D	4 x B
Distance S 1.5 x B Distance G 6 x Sn Distance N 2 x Sn Diameter active Ø 6.5 mm	Distance W	3 x Sn
Distance G 6 x Sn Distance N 2 x Sn Diameter active Ø 6.5 mm	Distance T	4 x B
Distance N 2 x Sn Diameter active Ø 6.5 mm	Distance S	1.5 x B
Diameter active Ø 6.5 mm	Distance G	6 x Sn
	Distance N	2 x Sn
		Ø 6.5 mm