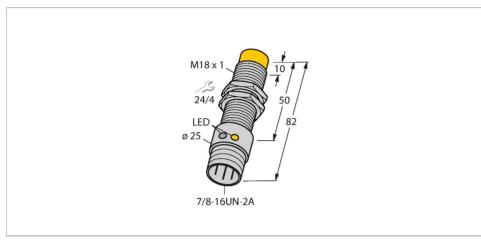


NI12U-GT18-ADZ30X2-B1331 **Inductive Sensor**



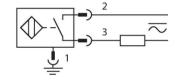
Technical data

Туре	NI12U-GT18-ADZ30X2-B1331
ID	4281422
General data	
Rated switching distance	12 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	20250 VAC
Operating voltage U _B	10300 VDC
AC rated operational current	≤ 400 mA
DC rated operating current I _o	≤ 300 mA
Frequency	≥ 50≤ 60 Hz
Residual current	≤ 1.7 mA
Isolation test voltage	1.5 kV
Surge current	≤ 3 A (≤ 20 ms max. 5 Hz)
Short-circuit protection	yes/Latching
Voltage drop at I _e	≤ 6 V
Wire break/reverse polarity protection	yes/Complete
Output function	2-wire, NO contact, 2-wire
DC field stability	300 mT

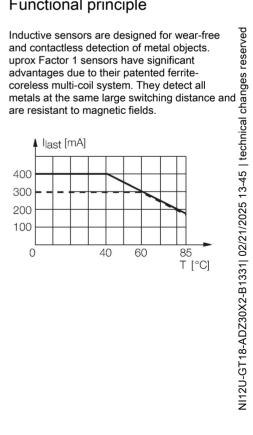
Features

- ■Threaded barrel, M18 x 1
- ■Brass, PTFE-coated
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- ■AC 2-wire, 20...250 VAC
- ■DC 2-wire, 10...300 VDC
- ■NO contact
- ■7/8" male connector

Wiring diagram



Functional principle



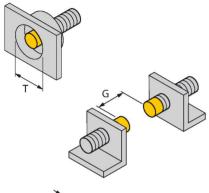


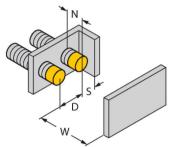
Technical data

AC field stability	300 mT_{ss}
Smallest operating current	≥ 3 mA
Insulation class	
Switching frequency	0.01 kHz
Mechanical data	
Design	Threaded barrel, M18 x 1
Dimensions	82 mm
Housing material	Metal, CuZn, PTFE-coated
Active area material	Plastic, PA12-GF30, PTFE-coated
Max. tightening torque of housing nut	25 Nm
Electrical connection	Connector, 7/8"
Electrical connection Environmental conditions	Connector, 7/8"
	-30+85 °C
Environmental conditions	
Environmental conditions Ambient temperature	-30+85 °C
Environmental conditions Ambient temperature Vibration resistance	-30+85 °C 55 Hz (1 mm)
Environmental conditions Ambient temperature Vibration resistance Shock resistance	-30+85 °C 55 Hz (1 mm) 30 g (11 ms)
Environmental conditions Ambient temperature Vibration resistance Shock resistance Protection class	-30+85 °C 55 Hz (1 mm) 30 g (11 ms) IP68 874 years acc. to SN 29500 (Ed. 99) 40
Environmental conditions Ambient temperature Vibration resistance Shock resistance Protection class MTTF	-30+85 °C 55 Hz (1 mm) 30 g (11 ms) IP68 874 years acc. to SN 29500 (Ed. 99) 40 °C

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 18 mm

Accessories

BST-18B 6947214

M5 28 40 24 24 24

Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6



QMT-18

QM-18

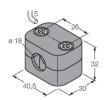


Quick-mount bracket with dead-stop; material: brass, PTFE-coated; Male thread M24 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

6945104

6945102

BSS-18 6901320



Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene



Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M24 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.