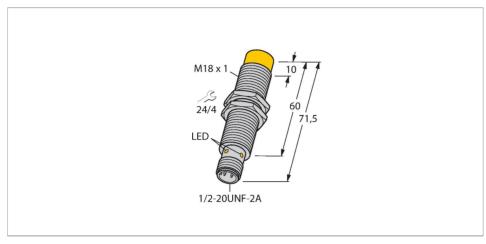


# NI12U-GT18-RDZ30X2-B3331 **Inductive Sensor**



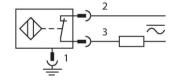
#### Technical data

Туре	NI12U-GT18-RDZ30X2-B3331
ID no.	4281522
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 %
Ambient temperature	-30+85 °C
Operating voltage	20250 VAC
Operating voltage	10300 VDC
AC rated operational current	≤ 400 mA
DC rated operational current	≤ 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 I₅	≤ 6 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	2-wire, NC contact, 2-wire
Smallest operating current	≥ 3 mA
Insulation class	

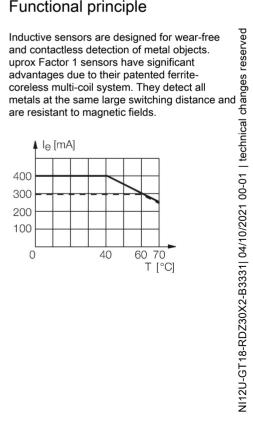
#### **Features**

- ■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 VDC
- ■DC 2-wire, 10...300 VDC
- ■NC contact
- 1/2" male connector

#### Wiring diagram



# Functional principle



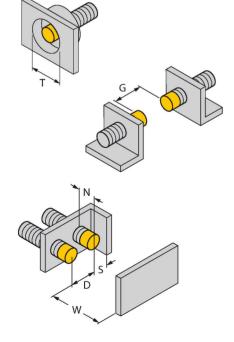


# Technical data

Switching frequency	0.01 kHz
Design	Threaded barrel, M18 × 1
Dimensions	70 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, 1/2"
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
Power-on indication	LED, Green
Switching state	LED, Yellow

# Mounting instructions

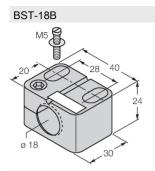
### Mounting instructions/Description



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 18 mm



### Accessories



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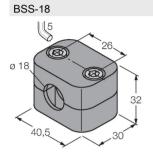
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Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6



6945104

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.



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