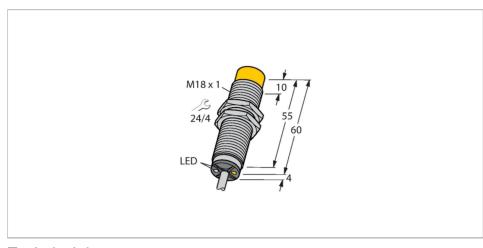


NI12U-MT18-ADZ30X2 **Inductive Sensor**



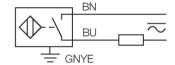
Technical data

Type	NI12U-MT18-ADZ30X2
Type	
ID	4209420
General data	
Rated switching distance	12 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
	≤ ± 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 _e	≤ 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。	≤ 6 V
Wire break/reverse polarity protection	yes/Complete
Output function	2-wire, NO contact, 2-wire
DC field stability	300 mT
AC field stability	300 mT _{ss}

Features

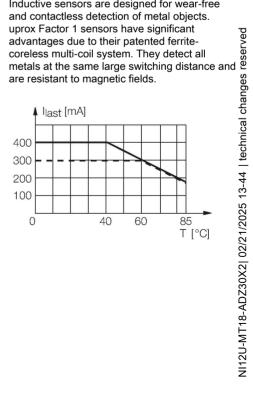
- ■Threaded barrel, M18 x 1
- Chrome-plated brass
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- ■AC 2-wire, 20...250 VAC
- ■DC 2-wire, 10...300 VDC
- ■NO contact
- Cable connection

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects.



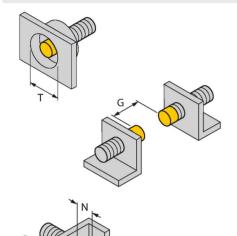


Technical data

ed barrel, M18 x 1 CuZn, PTFE-coated PBT, PTFE-coated EPTR
CuZn, PTFE-coated PBT, PTFE-coated
CuZn, PTFE-coated PBT, PTFE-coated
CuZn, PTFE-coated PBT, PTFE-coated
PBT, PTFE-coated
<u> </u>
EPTR
nm, LifYY, PVC, 2 m
mm ²
35 °C
1 mm)
1 ms)
ars acc. to SN 29500 (Ed. 99) 40
reen
ellow

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

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



QM-18

BSS-18

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.

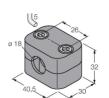
6945102

6901320

MW18

6945004

Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)



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