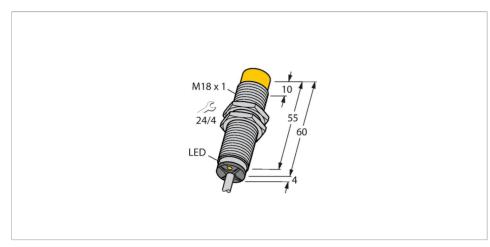


NI10U-M18M-AD4X Inductive Sensor



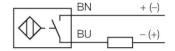
Technical data

NI10U-M18M-AD4X
4405070
10 mm
Non-flush
≤ (0.81 × Sn) mm
≤ 2 % of full scale
≤ ± 10 %
≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
320 %
-25+70 ℃
1065 VDC
≤ 10 % U _{ss}
≤ 100 mA
≤ 0.8 mA
≤ 0.5 kV
yes / Cyclic
≤ 5 V
Complete
2-wire, NO contact, 2-wire
≥ 3 mA
0.01 kHz
Threaded barrel, M18 \times 1
64 mm
Metal, CuZn, Chrome-plated

Features

- Threaded barrel, M18 x 1
- Chrome-plated brass
- Factor 1 for all metals
- Resistant to magnetic fields
- DC 2-wire, 10...65 VDC
- NO contact
- Cable connection

Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *uprox*°+ sensors have distinct advantages compared to conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

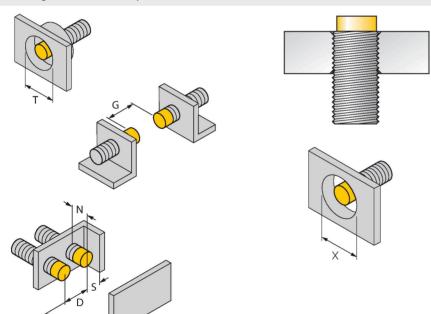


Technical data

Active area material	Plastic, LCP
End cap	Plastic, EPTR
Max. tightening torque housing nut	25 Nm
Electrical connection	Cable
Cable quality	Ø 5.2 mm, LifYY, PVC, 2 m
Core cross-section	2 x 0.34 mm 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
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

All non-flush mountable uprox®+ threaded barrel sensors can be screwed to the upper edge of the barrel. Thus safe operation is guaranteed with a reduced switching distance of max. 20 %.

When installed in an aperture plate a distance of X = 70 mm must be observed.

Isolating switching amplifiers can be applied because uprox*+ 2-wire DC sensors work with 8 VDC low operating voltage (limited load current).

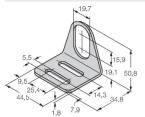
If the sensors are operated with the Turck remote I/O fieldbus system BL20, wire-break and short-circuit events are immediately detected. For this purpose connected the sensor to the BL20-4DI-NAMUR slice.



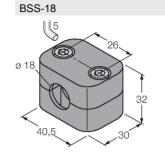
6901320

Accessories

MW18 6945004



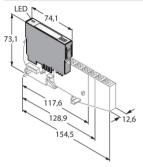
Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)



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

BL20-4DI-NAMUR





4 digital inputs acc. to EN 60947-5-6 For NAMUR sensors, de-energized contacts or uprox®+ 2-wire DC sensors.