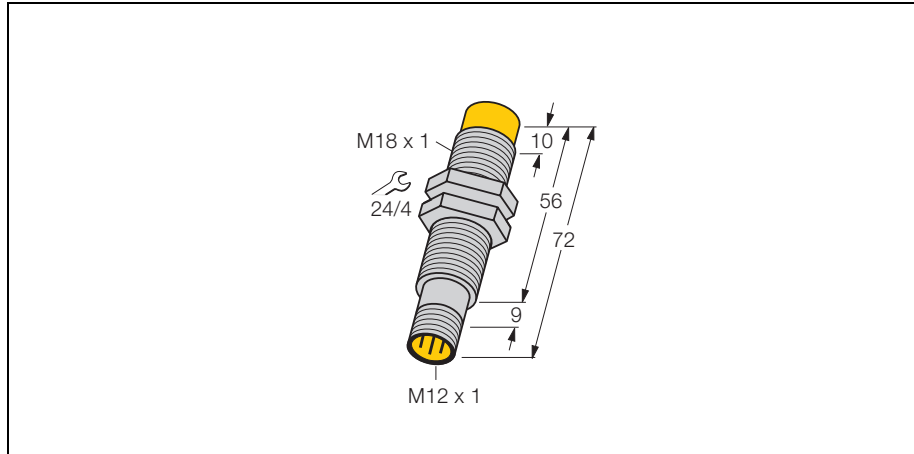
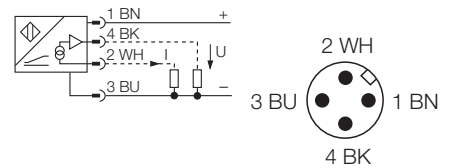


**Inductive sensor
with analogue output
Ni8-M18E-LiU-H1141**



- Threaded barrel, M18 x 1
- Chrome-plated brass
- 4-wire, 15...30 VDC
- analogue output
- 0...10 V and 0...20 mA
- connector, M12 x 1

Wiring diagram

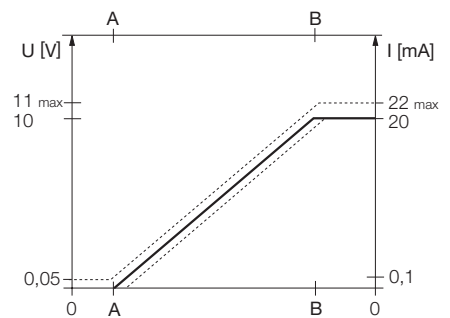


| | |
|---|---|
| Type | Ni8-M18E-LiU-H1141 |
| Ident-No. | 1536302 |
| Measuring range [A...B] | 1... 5 mm |
| Mounting condition | non-flush |
| Correction factors | St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3 |
| Repeatability | ≤ 1 % of measuring range A - B |
| | ≤ 0.5 %, after a warm-up time of 0.5 h |
| Reproducibility | ≤ 40µm |
| | ≤ 20µm, after a warm-up time of 0.5 h |
| Linearity deviation | ≤ 3% of full scale |
| Temperature drift | ≤ ± 0.06 %/K |
| Ambient temperature | -25...+ 70 °C |
| Operating voltage | 15... 30VDC |
| Residual ripple | ≤ 10 % U _{SS} |
| No-load current I ₀ | ≤ 8 mA |
| Rated insulation voltage | ≤ 0.5 kV |
| Short-circuit protection | yes |
| Wire breakage / Reverse polarity protection | yes / complete |
| Output function | 4-wire, analogue output |
| voltage output | 0... 10 V |
| current output | 0... 20 mA |
| Load resistance voltage output | ≥ 4.7 kΩ |
| Load resistance current output | ≤ 0.4 kΩ |
| Measuring sequence frequency | 100 Hz |
| Output recovery time | ≤ 12 ms |
| Housing | threaded barrel, M18 x 1 |
| Dimensions | 72 mm |
| Housing material | metal, CuZn, chrome-plated |
| Material active face | plastic, PA12-GF30 |
| Tightening torque of housing nut | 25 Nm |
| Electrical connection | Connectors, M12 x 1 |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30g (11 ms) |
| Degree of protection | IP67 |

Functional principle

Simple control tasks can be accomplished with inductive TURCK sensors featuring an analogue output. They provide a current, voltage or frequency signal that is proportional to the target's distance. With TURCK's analogue sensors, this output signal is linear to the distance of the target over the entire sensing range.

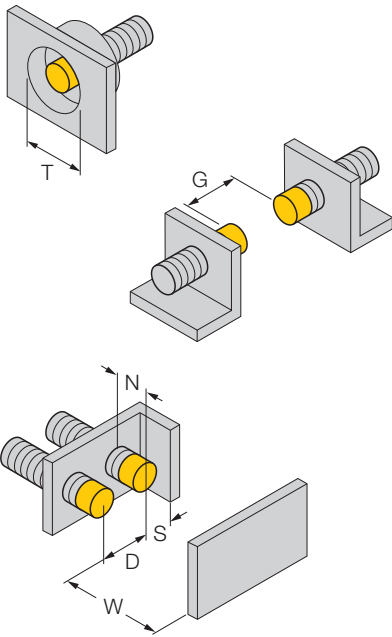
Measuring range



**Inductive sensor
with analogue output
Ni8-M18E-LiU-H1141**

| Mounting instructions | minimum distances |
|-----------------------|-------------------|
| Distance D | 36 mm |
| Distance W | 18 mm |
| Distance T | 3 x B |
| Distance S | 27 mm |
| Distance G | 36 mm |
| Distance N | 12 mm |

Diameter of the active area B Ø 18 mm

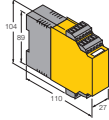
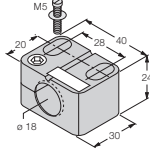
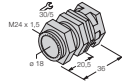
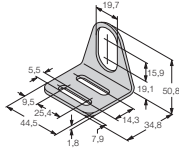
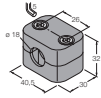


Inductive sensor with analogue output Ni8-M18E-LiU-H1141

TURCK

Industrial
Automation

Accessories

| Type code | Ident-No. | Short text | Dimension drawing |
|------------|-----------|--|---|
| IM43-13-SR | 7540041 | limit value monitor; single channel; input 0/4...20 mA or 0/2...10 V; supply of 2- or 3-wire transmitters/sensors; limit value adjustment via teach button; three relay outputs with one normally open contact each; removable terminal blocks; 27 mm wide; universal voltage supply 20...250 VUC; further limit value monitors are described in our "Interface Technology" catalogue. |  |
| BST-18B | 6947214 | fixing clamp with dead-stop; material: PA6 |  |
| QM-18 | 6945102 | quick-mount fixing clamp with dead-stop; material: chrome-plated brass male thread M24 x 1.5. Note: The switching distance of proximity switches can be reduced by the use of quick mounting brackets. |  |
| MW-18 | 6945004 | mounting bracket; material: stainless steel A2 1.4301 (AISI 304) |  |
| BSS-18 | 6901320 | fixing clamp; material: polypropylene |  |