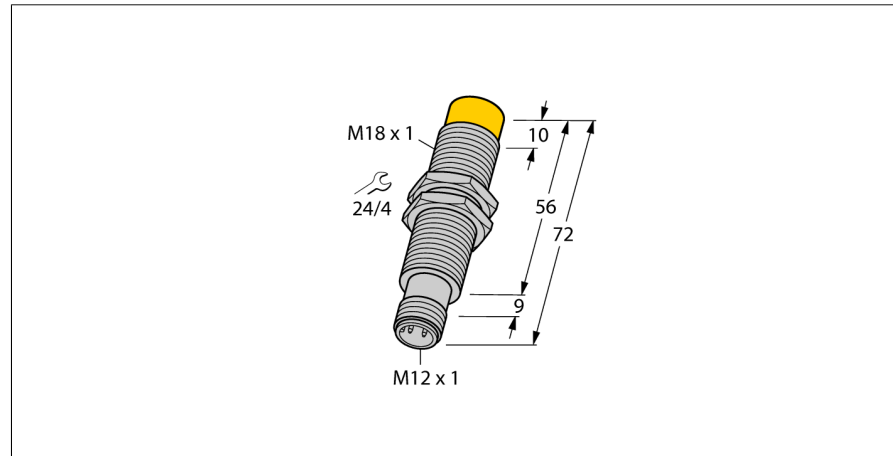
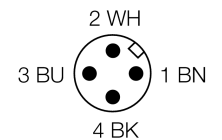
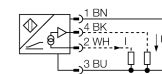


**Inductive sensor  
with analog output  
NI10-M18E-LIU-H1141**



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

**Wiring diagram**

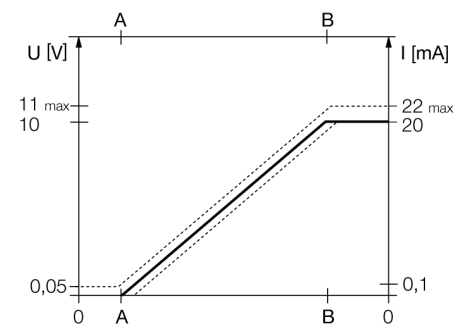


<b>Type code</b>	NI10-M18E-LIU-H1141
<b>Ident no.</b>	1535562
<b>Measuring range [A...B]</b>	1...7mm
<b>Mounting condition</b>	non-flush
<b>Correction factors</b>	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
<b>Repeatability</b>	≤ 1 % of measuring range  A - B
	≤ 0.5 %, after warm-up 0.5 h
<b>Reproducibility</b>	≤ 60 µm
	≤ 30 µm, after a warm-up time of 0.5 h
<b>Linearity deviation</b>	≤ 5 %
<b>Temperature drift</b>	≤ ± 0.06 % / K
<b>Ambient temperature</b>	-25...+70 °C
<b>Operating voltage</b>	15...30VDC
<b>Residual ripple</b>	≤ 10 % U <sub>ss</sub>
<b>No-load current I<sub>0</sub></b>	≤ 8 mA
<b>Rated insulation voltage</b>	≤ 0.5 kV
<b>Short-circuit protection</b>	yes
<b>Wire breakage / Reverse polarity protection</b>	yes/ complete
<b>Output function</b>	4-wire, Analog output
<b>Voltage output</b>	0...10V
<b>Current output</b>	0...20mA
<b>Load resistance voltage output</b>	≥ 4.7 kΩ
<b>Load resistance current output</b>	≤ 0.4 kΩ
<b>Measuring sequence frequency</b>	100 Hz
<b>Design</b>	threaded barrel, M18 x 1
<b>Dimensions</b>	72 mm
<b>Housing material</b>	metal, CuZn, chrome-plated
<b>Material active face</b>	Plastic, PA
<b>Max. tightening torque housing nut</b>	25 Nm
<b>Connection</b>	male, M12 x 1
<b>Vibration resistance</b>	55 Hz (1 mm)
<b>Shock resistance</b>	30 g (11 ms)
<b>Protection class</b>	IP67
<b>MTTF</b>	751 years acc. to SN 29500 (Ed. 99) 40 °C

**Functional principle**

Inductive TURCK sensors with analog output accomplish simple control tasks. They provide a current, voltage or frequency signal proportional to the target's distance. The output signal is linear to the distance of the target over the entire sensing range.

**Measuring range**



**Inductive sensor  
with analog output  
NI10-M18E-LIU-H1141**

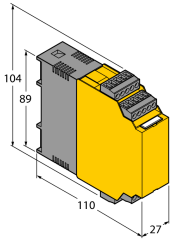
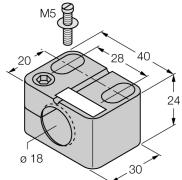
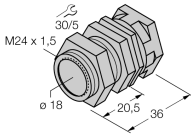
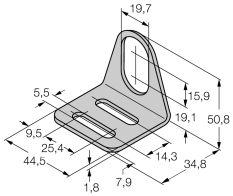
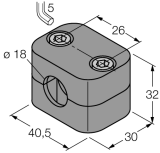
Distance D	36 mm
Distance W	18 mm
Distance T	3 x B
Distance S	27 mm
Distance G	36 mm
Distance N	12 mm

**Diameter of the active area B**                       $\varnothing$  18 mm



**Inductive sensor  
with analog output  
NI10-M18E-LIU-H1141**

**Accessories**

Type code	Ident no.	Description	Dimension drawing
IM43-13-SR	7540041	Limit value monitor; 1-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 NO contact each; removable terminal blocks; 27 mm wide; universal voltage supply 20...250 VUC; further limit value monitors are described in our "Interface Technology" catalog.	
BST-18B	6947214	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	
QM-18	6945102	Quick-mount bracket 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-mount brackets.	
MW-18	6945004	Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)	
BSS-18	6901320	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	

**Inductive sensor  
with analog output  
NI10-M18E-LIU-H1141**

**Wiring accessories**

Type code	Ident no.	Description	Dimension drawing
RKC4T-2/TEL	6625010	Connection cable, female M12, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see <a href="http://www.turck.com">www.turck.com</a>	