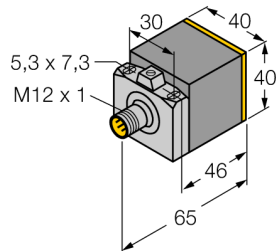
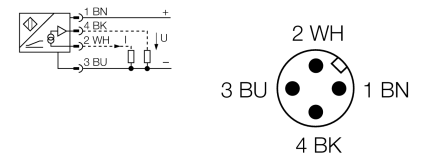


**Inductive sensor  
with analog output  
NI25-CK40-LIU2-H1141**



- Rectangular, height 40 mm
- Variable orientation of active face in 5 directions
- Plastic, PBT-GF30-V0
- Analog+
- Extended operating range
- 4-wire, 15...30 VDC
- Analog output
- 2...10 V and 4...20 mA
- Male M12 x 1

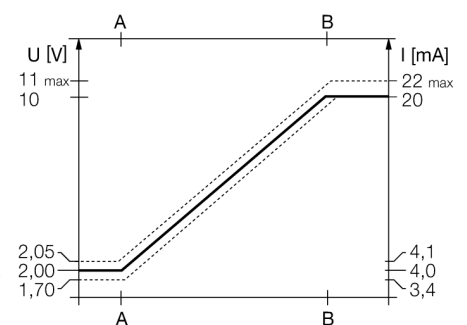
**Wiring diagram**



**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.

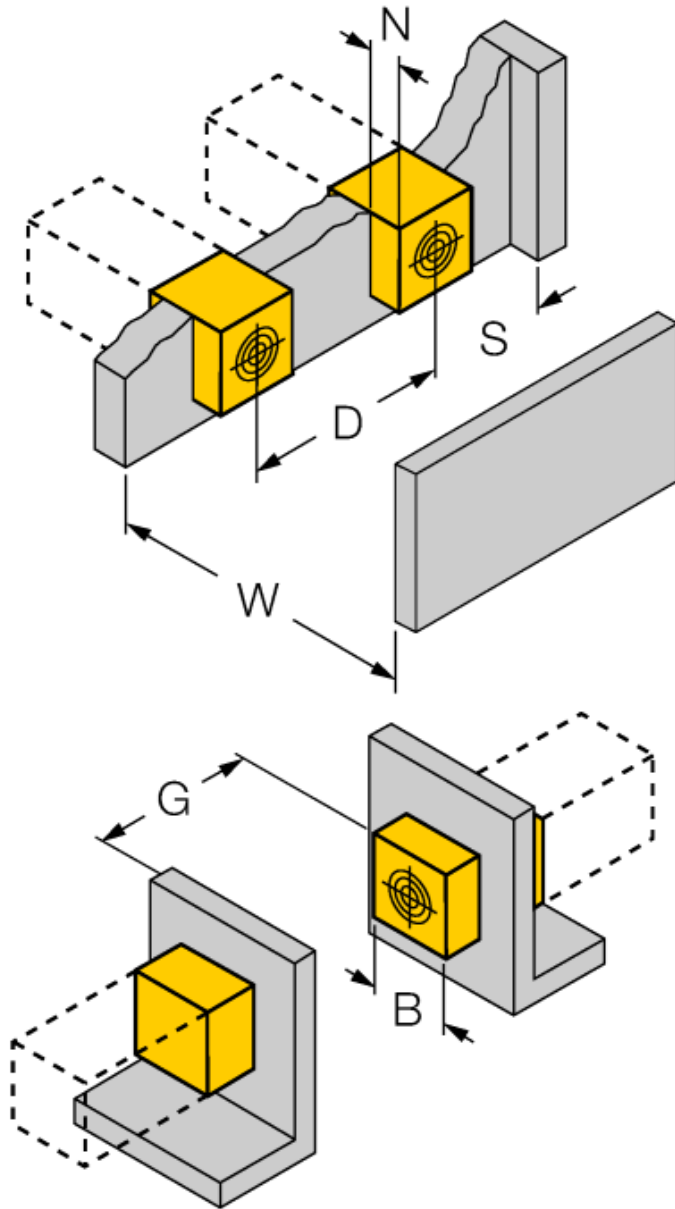
**Measuring range**



<b>Type code</b>	NI25-CK40-LIU2-H1141
<b>Ident no.</b>	1537821
<b>Measuring range [A...B]</b>	5...25mm
<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>	≤ 200 µm
	≤ 100 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>s</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>	2...10V
<b>Current output</b>	4...20mA
<b>Load resistance voltage output</b>	≥ 4.7 kΩ
<b>Load resistance current output</b>	≤ 0.4 kΩ
<b>Measuring sequence frequency</b>	30 Hz
<b>Design</b>	rectangular, CK40
<b>Dimensions</b>	65 x 40 x 40 mm variable orientation of active face in 5 directions
<b>Housing material</b>	plastic, PBT, black
<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
<b>Included in scope of supply</b>	BS1-CK40

**Inductive sensor  
with analog output  
NI25-CK40-LIU2-H1141**

Distance D	120 mm
Distance W	75 mm
Distance S	120 mm
Distance G	150 mm
Distance N	40 mm
<hr/>	
Width of the active face B	40 mm



**Inductive sensor  
with analog output  
NI25-CK40-LIU2-H1141**

**TURCK**

Industrial  
Automation

**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.	
BSS-CP40	6901318	Mounting bracket for rectangular devices; material: Polypropylene	

**Wiring accessories**

Type code	Ident no.	Description	Dimension drawing
RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-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>	