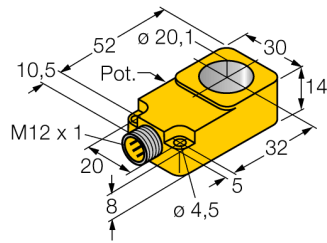


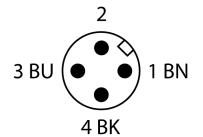
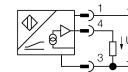
Inductive sensor
With analog output
BI20R-Q14-LU-H1141



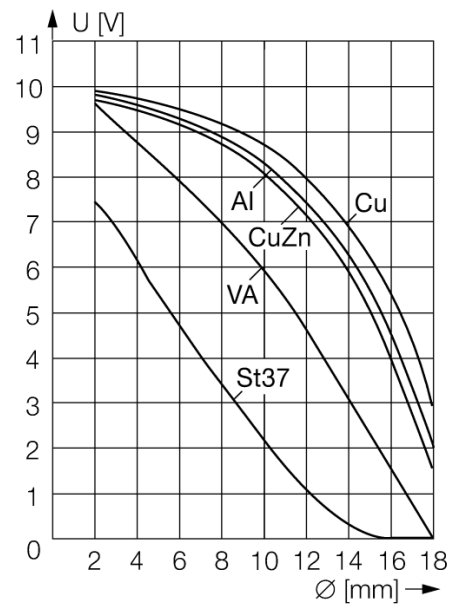
- Rectangular, height 14 mm
- Plastic, PBT-GF30-V0
- Sensitivity adjusted via potentiometer
- Thickness measurement (e.g. screws, rivets, rods)
- Path measurement with conical actuator: Measuring range freely adjustable via cone length
- 3-wire, 15...30 VDC
- Analog output
- 0...10 V
- M12 x 1 male connector

Type designation	BI20R-Q14-LU-H1141
Ident-No.	1535548
Inside ring diameter D	20.1 mm
Measuring range [A...B]	depending on the length of the cone
Repeatability	≤ 1 % of measuring range A - B ≤ 0.5 %, after warm-up 0.5 h
Temperature drift	≤ ± 10 %
Temperature drift	≤ ± 0.06 % / K
Ambient temperature	-25...+70 °C
Operating voltage	15...30 VDC
Residual ripple	≤ 10 % U _{ss}
No-load current I ₀	≤ 8 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	no/ Complete
Output function	3-wire, Analog output
Voltage output	0...10V
Load resistance voltage output	≥ 4.7 kΩ
Measuring sequence frequency	80 Hz
Design	Ring sensor, Q14
Dimensions	62.5 x 30 x 14 mm
Housing material	Plastic, PBT-GF30-V0
Electrical connection	Connector, M12 x 1
Coil body	plastic, POM
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	751 years acc. to SN 29500 (Ed. 99) 40 °C

Wiring Diagram

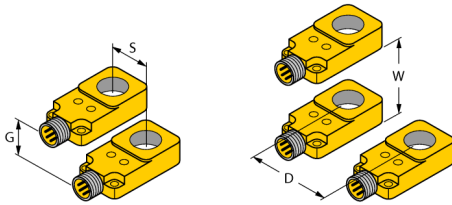


Measuring Range



Inductive sensor
With analog output
BI20R-Q14-LU-H1141

Distance D	45 mm
Distance W	45 mm
Distance S	14 mm
Distance G	30 mm

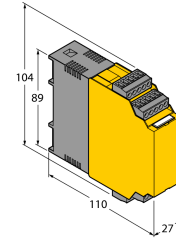


**Inductive sensor
With analog output
BI20R-Q14-LU-H1141**



Accessories

Type code	Ident-No.	Description
IM43-13-SR	7540041	Trip amplifier; 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 indicators are described in our "Interface Technology" catalog.



Wiring accessories

Type code	Ident-No.	Description
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 www.turck.com
RKC4.301T-0.15- RSC4.334T/TXL	6631382	Extension cable, M12 female/male, straight, 4-pin, cable length: 0.15m, jacket material: PUR, black; cULus approval; Adapter cable for sensors with analog output on pin 2, for connection to analog inputs of fieldbus modules with 4-wire technology

