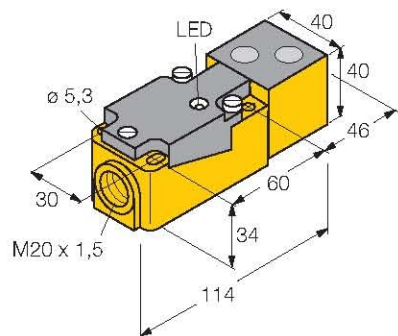


**ultrasonic sensor**  
**diffuse mode sensor**  
**RU100-CP40-LIUX**

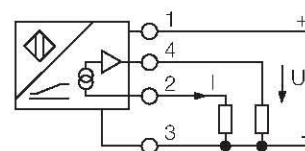
**TURCK**

Industrial  
Automation



- analogue output, 0...10 V and 0...20 mA
- rectangular
- opening angle of sonic cone 60°
- Terminal chamber
- an initial range value between 5...100 cm and the axial width between 10...100 cm are adjustable within the analogue range

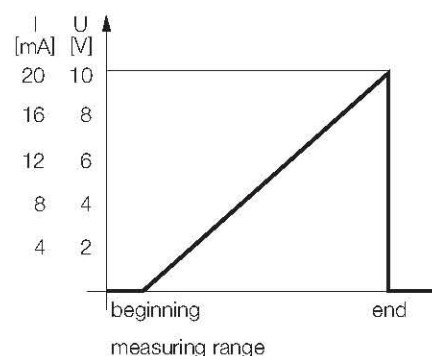
**Wiring diagram**



**Function principle**

Ultrasonic sensors use ultrasonic waves for non-contact and wear-free detection of a large variety of objects. It does not matter whether the object is transparent or opaque, metallic or non-metallic, or of liquid, solid or powdery consistence. Environmental conditions such as spray, dust or rain hardly affect their function.

**Typical curve**



<b>Type</b>	RU100-CP40-LIUX
Ident-No.	15349
<b>Max. sensing range [cm]</b>	5... 180 cm
Ultrasound frequency	40 kHz
Temperature drift	≤ 0.4 %/K
Repetition accuracy	± 5 mm
Edge lengths of the nominal actuation element	200 mm
Pass speed	≤ 2 m/s
Approach speed	≤ 1 m/s
Ambient temperature	0 ...+ 70 °C
<b>Operating voltage</b>	15... 30 VDC
No-load current $I_0$	≤ 20 mA
Current output	0... 20 mA
Load resistance	≤ 500 Ω
Voltage output	0... 10 V
Load resistance	≥ 4700 Ω
Short-circuit protection	yes
Reverse polarity protection	complete
Wire breakage protection	yes
<b>Housing style</b>	rectangular; CP40
Dimensions	160 x 40 x 40 mm
Housing material	plastic, PBT-GF30-V0
Connection	Terminal chamber
Protection degree	IP40
<b>Operating voltage display</b>	LED yellow
Display 'Object detected'	LED yellow flashing