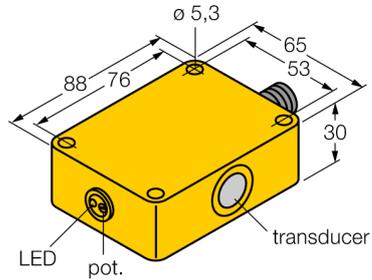


**ultrasonic sensor  
diffuse mode sensor  
RU100-Q30-LUX-H1141**

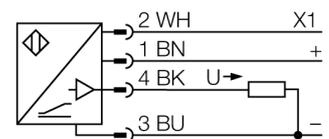
**TURCK**

Industrial  
Automation



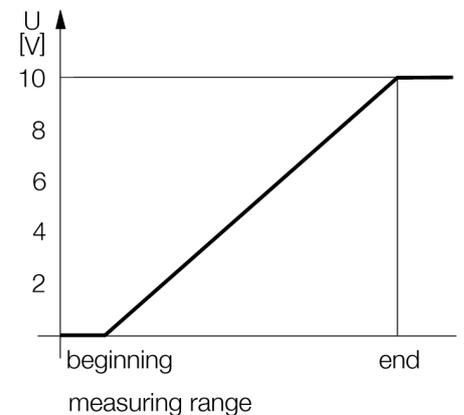
- Operating voltage 18...35 VDC
- Upper analog value adjustable via potentiometer
- Analog output, 0...10 V
- Display for object detection
- synchronizable
- opening angle of sonic cone 6°

**Wiring diagram**



**Functional principle**

Ultrasonic sensors use ultrasonic waves for non-contact and wear-free detection of many objects. Regardless of whether the object is transparent or opaque, metallic or non-metallic, or of liquid, solid or powdery consistency. Even environmental conditions such as spray, dust or rain hardly affect their function.



<b>Type</b>	RU100-Q30-LUX-H1141
Ident-No.	1820205
<b>Range</b>	20...100 cm
Ultrasound frequency	230 kHz
Temperature drift	≤ 0.17 % / K
Repeatability	≥ ± 1.5 mm
Edge lengths of the nominal actuator	20 mm
Pass speed	≤ 1.5 m/s
Approach speed	≤ 8 m/s
Ambient temperature	0...+55 °C
<b>Operating voltage</b>	18...35VDC
No-load current I <sub>0</sub>	≤ 35 mA
Voltage output	0...10V
Load resistance	≥ 1000 Ω
Short-circuit protection	yes/ cyclic
Reverse polarity protection	complete
Wire breakage protection	yes
<b>Design</b>	rectangular, Q30
Dimensions	88 x 65 x 30 mm
Housing material	Plastic, PBT-GF30-V0
Connection	connector, M12 x 1
Protection class	IP65
<b>Display ' Object detected '</b>	LED yellow