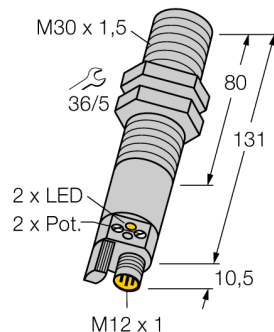


ultrasonic sensor
diffuse mode sensor
RU100-EM30-AP8X-H1141

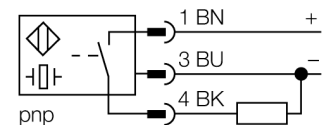
TURCK

Industrial
Automation



- Lower and upper switching value adjustable via potentiometer
- Stainless steel housing
- PNP transistor output (NO contact)
- 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.

Type	RU100-EM30-AP8X-H1141
Ident-No.	1830221
Range	20...130 cm
Ultrasound frequency	200 kHz
Temperature drift	≤ 0.17 % / K
Repeatability	≥ ± 2 mm
Edge lengths of the nominal actuator	20 mm
Pass speed	≤ 1.2 m/s
Approach speed	≤ 10 m/s
Ambient temperature	-25...+70 °C
Operating voltage	20...30VDC
DC rated operational current	≤ 300 mA
No-load current I ₀	≤ 50 mA
Output function	NO contact, PNP
Short-circuit protection	yes/ cyclic
Reverse polarity protection	complete
Switching frequency	≤ 4 Hz
Voltage drop at I ₀	≤ 3 V
Wire breakage protection	yes
Design	cylindrical/threaded, M30
Dimensions	141.5 mm
Housing diameter	Ø 30 mm
Thread length	80 mm
Housing material	Stainless steel, V2A (1.4305)
Connection	connector, M12 x 1
Protection class	IP65
Switching state	LED
Display ' Object detected '	LED