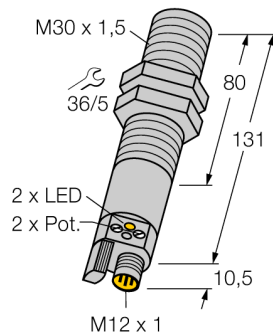


ultrasonic sensor
diffuse mode sensor
RUC30-M30-AP8X-H1141

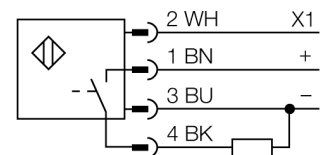
TURCK

Industrial
Automation



- Lower and upper switching value adjustable via potentiometer
- Further parameters adjustable via programming device RU-PDI (accessories)
- PNP transistor output (NO contact)
- 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.

Type	RUC30-M30-AP8X-H1141
Ident-No.	1840000

Range	6...30 cm
Ultrasound frequency	400 kHz
Repeatability	≥ ± 0.45 mm
Temperature drift	± 1.5 % of full scale
Edge lengths of the nominal actuator	10 mm
Hysteresis	≤ 10 mm
Pass speed	≤ 1.5 m/s
Approach speed	≤ 4 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	≤ 8 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	Metal, CuZn, nickel-plated
Connection	connector, M12 x 1
Protection class	IP65

Switching state	LED
Display ' Object detected '	LED

ultrasonic sensor
diffuse mode sensor
RUC30-M30-AP8X-H1141

Accessories

Type code	Ident-No.	Short text	Dimension drawing
RU-PDI	1890000	programming device for configuration of ultrasonic sensor types RU...-M18 and RUC...-M30	