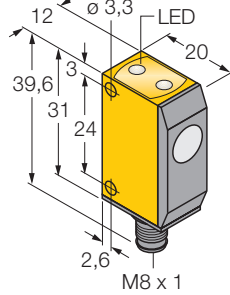


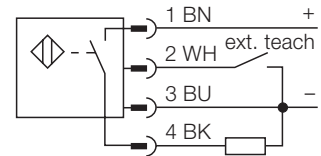
**ultrasonic sensor
retro-reflective sensor
RUR40-Q12-AP8X-V1141**



- miniature ultrasonic sensor
- ideal for mounting in confined spaces
- high sensing range up to 40 cm
- ultrasonic frequency 300 kHz
- retro-reflective sensor between sensor and reference object
- distance of the reference object via external teach (operating manual)
- blind zone free
- DC 4- wire, 20...30 VDC
- normally open, PNP output
- connector device, M8 x 1

Type	RUR40-Q12-AP8X-V1141
Ident-No.	1830049
Range	0... 40 cm
Ultrasound frequency	300 kHz
Temperature drift	≤ 0.17 % / K
Ambient temperature	-25... + 70 °C
Operating voltage	20... 30VDC
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 20 mA
Output function	normally open, pnp
Short-circuit protection	yes
Reverse polarity protection	yes
Switching frequency	≤ 10 Hz
Voltage drop at I _e	≤ 2V
Wire breakage protection	yes
Housing	rectangular, Q12
Dimensions	31 x 12 x 20 mm
Housing material	plastic, ABS
Connection	connectors, M8 x 1
Degree of protection	IP67
Display switch state	LED yellow

Wiring diagram



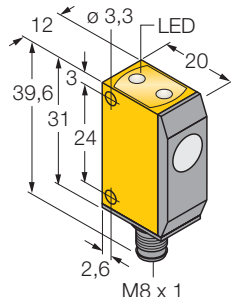
Functional principle

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.

ultrasonic sensor
diffuse mode sensor
RUN40-Q12-AP8X-V1141

TURCK

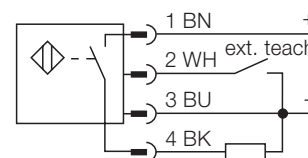
Industrial
Automation



- miniature ultrasonic sensor
- ideal for mounting in confined spaces
- high sensing range up to 40 cm
- ultrasonic frequency 300 kHz
- diffuse mode sensor with background suppression
- switching range end 4...40 cm
- switching range end via external teach (operating manual)
- switching hysteresis 4 mm
- DC 4- wire, 20...30 VDC
- normally open, PNP output
- connector device, M8 x 1

Type	RUN40-Q12-AP8X-V1141
Ident-No.	1830050
Range	2.5... 40 cm
Ultrasound frequency	300 kHz
Temperature drift	≤ 0.17 % / K
Repeatability	≥ ± 1 mm
Ambient temperature	-25... + 70 °C
Operating voltage	20... 30VDC
DC rated operational current	≤ 200 mA
No-load current I_0	≤ 20 mA
Output function	normally open, pnp
Short-circuit protection	yes
Reverse polarity protection	yes
Switching frequency	≤ 10 Hz
Voltage drop at I_e	≤ 2V
Wire breakage protection	yes
Housing	rectangular, Q12
Dimensions	31 x 12 x 20 mm
Housing material	plastic, ABS
Connection	connectors, M8 x 1
Degree of protection	IP67
Display switch state	LED yellow

Wiring diagram



Functional 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.