Leuze electronic

RKU 420/2NC.2-S8
Part No. 50132082

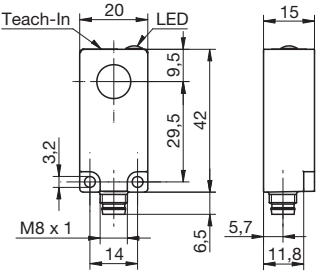
Retro-reflective Ultrasonic sensor

0 … 400 mm

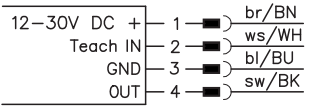
en 02-2016/02 50130129

Detailed data sheets:
www.leuze.com

Dimensioned drawing



Electrical connection



Specifications

Operating range	0 … 400 mm
Reflector distance	100 … 400 mm
Reflector size	> 30 x 30 mm²
Ultrasonic frequency	290 kHz
Opening angle	standard
Operating voltage U_B 1)	12 … 30 VDC
Bias current	≤ 35 mA
Switching output OUT	pin 4: NPN
Output current	< 200 mA
Function OUT	break-contact (NC)
Connection type	connector M8, 4-pin
Switching frequency	20 Hz
Ambient temperature	-10 … +60 °C (operation)
Protection class	IP 67
VDE safety class	III

1) Observe the safety regulations and installation instructions regarding power supply and wiring; for UL applications: only for use in "Class 2" circuits acc. to NEC

Operate in accordance with intended use!

- This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons.
- Only use the product in accordance with the intended use.

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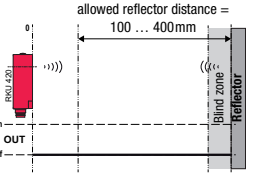
RKU 420/2NC.2-S8
Part No. 50132082

Retro-reflective Ultrasonic sensor

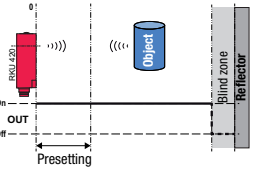
Function
The sensor detects objects from 0 mm to the reflector distance minus the blind zone.
The blind zone is max. 5% of the selected reflector distance.
In the blind zone, the switching behavior of the sensor is undefined.

without object



Switching output **OUT** = **inactive (Off)**
Green **LED** is **On (no object detected)**

with object



Presetting
RKU 420/2NC.2-S8
(part no. 50132082):
reflector distance 122 mm

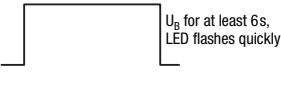
Switching output **OUT** = **active (On)**
Green **LED** is **Off (object detected)**

Reflector distance adjustment via teach-in

Teach button	Teach-in input PIN 2
① **Activate teach-in**	
Press the teach button for approx. 2 s until the LED flashes - then release the button.	
② **Place the reflector at the desired position and conclude the teach event**	
LED flashes. Once the reflector is at the desired position, briefly press the teach button once again. The teach event ends after 2 s. Now the sensor detects objects, which are located in the acoustic path between the sensor and reflector. While an object is detected, the green LED is off.	

Teaching error
If the reflector is located outside of the operating range during the teach event, a teaching error occurs. The LED flashes quickly and the switching output is reset to the factory setting (switching point at the max. operating range).

Resetting the sensor to factory setting

Teach button	Teach-in input PIN 2
Restoring the standard operating range	
Press the teach button for at least 6 s until the LED flashes quickly - then release the button. The sensor setting now corresponds to the standard operating range.	

Locking the teach button
The sensor automatically locks the teach button after either 5 min. after power-on or 5 min. after the last teach event is ended. A new teach event is only possible after disconnecting the sensor from voltage.

If the **Teach-IN** input is not used, it must be connected to GND!

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