Online data sheet



UC4-11341

UC4

ULTRASONIC SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
UC4-11341	6034667

Other models and accessories ➜ www.sick.com/UC4

Detailed technical data

Performance

Working range, limiting range	13 mm ... 100 mm, 150 mm [1]
Resolution	≥ 0.1 mm
Repeatability	± 0.15 % [2]
Accuracy	0.17 % / K [2]
Response time	10 ms
Switching frequency	25 Hz
Output time	10 ms
Ultrasonic frequency (typical)	380 kHz
Detection area (typical)	See diagrams
Additional function	Set switching mode: Distance to object (DtO) / Window (Wnd) / Object between sensor and background (ObSB), teach-in of switching output, Invertable switching output, reset to factory default, lock user interface [3]

[1] Teach-in from 21 mm.
[2] Referring to current measurement value.
[3] Functions may vary depending on sensor type.

Interfaces

Switching output	1 x PNP (200 mA) [1] [2]
Hysteresis	2 mm

[1] Output Q short-circuit protected.
[2] PNP: HIGH = V_S - (< 2 V) / LOW = 0 V.

Mechanics/electronics

Supply voltage V_s	DC 15 V ... 30 V [1]
Power consumption	≤ 0.9 W [2]
Initialization time	< 300 ms

[1] Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A.
[2] Without load.

Design	Rectangular
Housing material	ABS-plastic Ultrasonic transducer: polyurethane foam, glass epoxy resin
Connection type	Male connector, M8, 3-pin
Indication	2 x LED
Weight	10 g
Sending axis	Straight

[1] Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A.

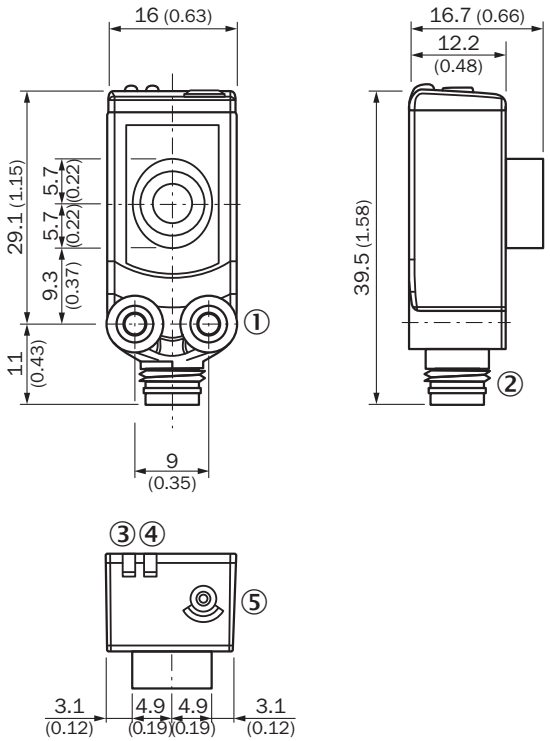
[2] Without load.

Ambient data

Enclosure rating	IP 67
Protection class	III
Ambient temperature	Operation: –25 °C ... +70 °C [1] Storage: –40 °C ... +85 °C

[1] At operating temperatures of > 50 °C, the rear side of the UC4 must be installed with its surface flat against a bracket.

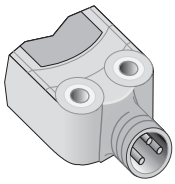
Dimensional drawing (Dimensions in mm (inch))



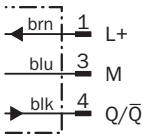
① Threaded mounting hole M3
② Connection
③ Status indicator switching output (orange)
④ Status indicator operating voltage active (green)
⑤ Operating elements

Connection type

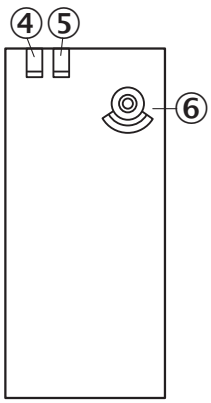
Connector M8, 3-pin



Connection diagram



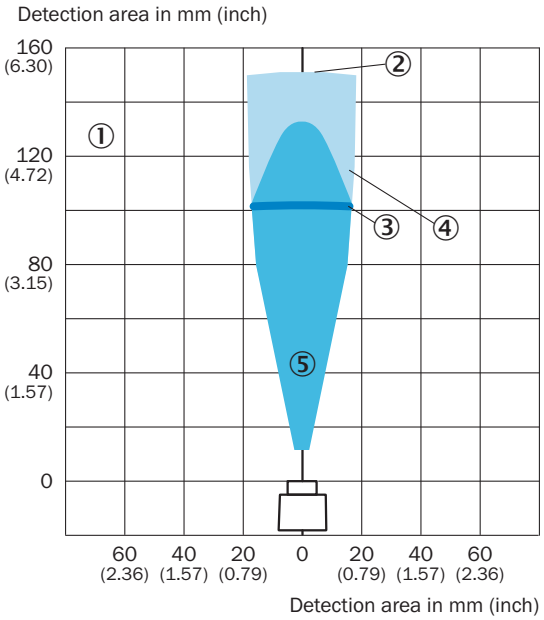
Adjustment possible



④ Status indicator switching output (orange)
⑤ Status indicator operating voltage active (green)
⑥ Operating elements

Detection area

UC4-11



① Sensing range dependent on reflection properties, size and orientation of the object
② Limiting range
③ Working range
④ Example object: aligned plate 100 mm x 100 mm
⑤ Example object: pipe with 10 mm diameter

Recommended accessories

Other models and accessories ➜ www.sick.com/UC4

	Brief description	Type	Part no.
Universal bar clamp systems			
	Plate H for universal clamp bracket, steel, zinc coated, universal clamp and mounting hardware included	BEF-KHS-H01	2022465
Mounting brackets and mounting plates			
	Mounting bracket for wall mounting, Stainless steel 1.4571, mounting hardware included	BEF-W4-A	2051628
Terminal and alignment brackets			
	Ball clamp bracket, plastic, mounting hardware included	BEF-GH-MINI02	2027128
Plug connectors and cables			
	Head A: female connector, M8, 3-pin, straight Head B: cable Cable: PVC, unshielded, 2 m	DOL-0803-G02M	6010785

	Brief description	Type	Part no.
	Head A: female connector, M8, 3-pin, angled Head B: cable Cable: PVC, unshielded, 2 m	DOL-0803-W02M	6008489
Hardware			
	Accessory for ultrasonic channeling for the product family UC4	SonicTube UC4	5329249

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SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

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