



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

Mechanics/electronics

Supply voltage V_s	DC 15 V ... 30 V ¹⁾
Power consumption	≤ 0.75 W ²⁾
Initialization time	< 300 ms
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
Enclosure rating	IP65 / IP67
Protection class	III

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

²⁾ Without load.

Performance

Operating range, limiting range	13 mm ... 100 mm, 150 mm ¹⁾
Target	Natural objects
Resolution	≥ 0.1 mm
Repeatability	± 0.15 % ²⁾
Accuracy	0.17 % / K ²⁾
Response time	24 ms
Switching frequency	30 Hz
Output time	8 ms

¹⁾ Teach-in from 21 mm.

²⁾ Referring to current measurement value.

³⁾ Functions may vary depending on sensor type.

Ultrasonic frequency (typical)	380 kHz
Detection area (typical)	See diagrams
Additional function	Adjustable operating modes: Switching point (Dt0) / Switching window/Background (ObSB), teach-in of digital output, invertable digital output, teach-in button(s) (can be deactivated), re-set to factory default 3)

1) Teach-in from 21 mm.

2) Referring to current measurement value.

3) Functions may vary depending on sensor type.

Interfaces

Digital output	
Number	1 ¹⁾
Type	PNP
Maximum output current I _A	≤ 200 mA
Hysteresis	2 mm

1) PNP: HIGH = V_S - (< 2 V) / LOW = 0 V.

Ambient data

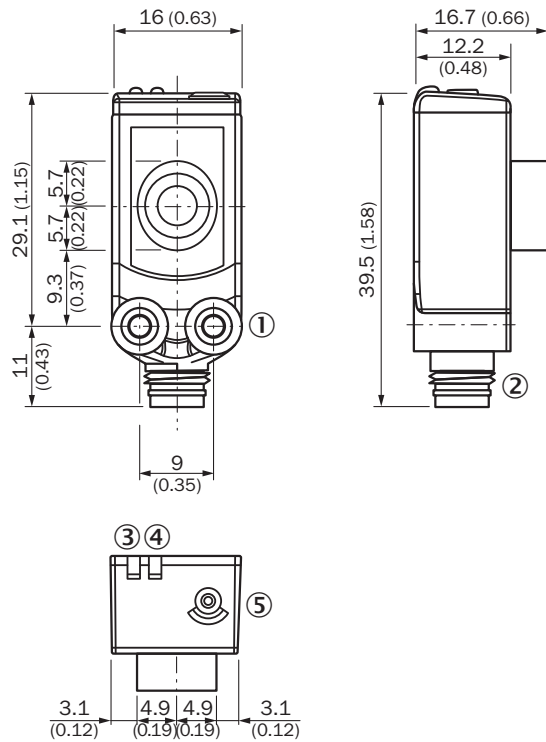
Ambient temperature operation	-25 °C ... +70 °C ¹⁾
Ambient storage temperature	-40 °C ... +85 °C

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

Classifications

ECI@ss 5.0	27270804
ECI@ss 5.1.4	27270804
ECI@ss 6.0	27270804
ECI@ss 6.2	27270804
ECI@ss 7.0	27270804
ECI@ss 8.0	27270804
ECI@ss 8.1	27270804
ECI@ss 9.0	27270804
ECI@ss 10.0	27270804
ECI@ss 11.0	27270804
ETIM 5.0	EC001846
ETIM 6.0	EC001846
ETIM 7.0	EC001846
UNSPSC 16.0901	41111960

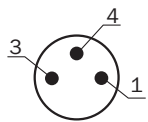
Dimensional drawing (Dimensions in mm (inch))



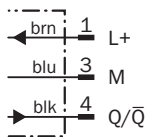
- ① Threaded mounting hole M3
- ② Connection
- ③ Status indicator digital output (orange)
- ④ Status display for supply voltage active (green)
- ⑤ Operating elements

Connection type

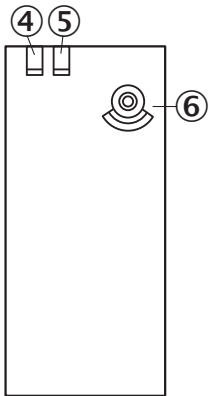
Connector M8, 3-pin



Connection diagram



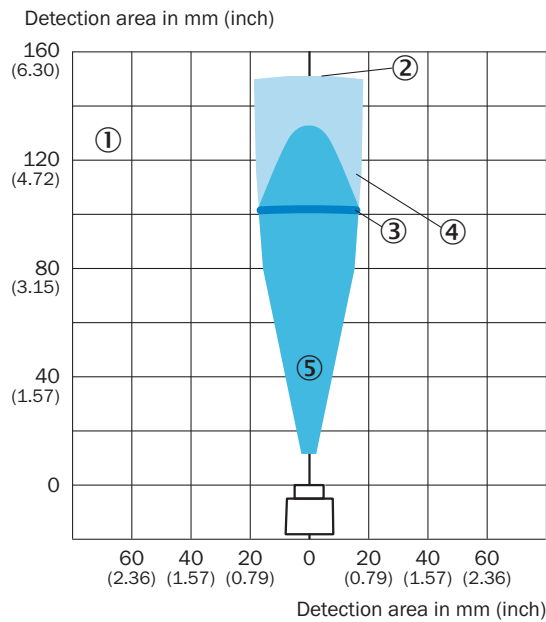
Adjustment possible



- ④ Status indicator digital output (orange)
- ⑤ Status display for supply voltage active (green)
- ⑥ Operating elements

Detection area

UC4-11



- ① Detection range dependent on reflection properties, size, and alignment of the object
- ② Limiting range
- ③ Operating range
- ④ Example object: aligned plate 100 mm x 100 mm
- ⑤ Example object: cylindrical bar with a diameter of 10 mm

Recommended accessories

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

	Brief description	Type	Part no.
Mounting brackets and plates			
	Mounting bracket for wall mounting, Stainless steel 1.4571, mounting hardware included	BEF-W4-A	2051628
Plug connectors and cables			
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF8U13-020VA1XLEAX	2095860
Hardware			
	Accessory for ultrasonic channeling for the product family UC4	SonicTube UC4	5329249

Recommended services

Additional services → www.sick.com/UC4

	Type	Part no.
Warranty extensions		
• Product area: Identification solutions, machine vision, Distance sensors, Detection and ranging solutions • Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms and conditions of purchase) • Duration: Five-year warranty from date of purchase.	Five-year extended warranty	1680671

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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.”

WORLDWIDE PRESENCE:

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