



DATA SHEET

UC4-13341

UC4
Ultrasonic distance sensors

SICK

Sensor Intelligence



ULTRASONIC DISTANCE SENSORS

UC4-13341

ORDERING INFORMATION

Type	part no.
UC4-13341	6034669

Further device versions and accessories at www.sick.com/UC4



DETAILED TECHNICAL DATA

FEATURES

Operating range, limiting range	13 mm ... 150 mm, 250 mm ¹⁾
Target	Natural objects
Resolution	≥ 0.1 mm
Repeatability	± 0.15 % ²⁾
Measurement accuracy	± 1 % ³⁾
Temperature compensation	✓
Response time	24 ms
Switching frequency	30 Hz
Output time	8 ms
Ultrasonic frequency (typical)	380 kHz
Detection area (typical)	See diagrams
Additional function	Adjustable operating modes: Switching point (DtO) / Switching window/Background (ObSB), teach-in of digital output, invertable digital output, teach-in button(s) (can be deactivated), reset to factory default ⁴⁾
Safety-related parameters	MTTF _D 101 years DC _{avg} 0%

¹⁾ Teach-in from 21 mm.

²⁾ In relation to the current measured value, minimum value ≥ resolution.

³⁾ Referring to current measurement value.

⁴⁾ 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_g - (< 2 V) / LOW = 0 V.

ELECTRONICS

Supply voltage U _g	DC 15 V ... 30 V ¹⁾
Power consumption	≤ 0.75 W ²⁾
Initialization time	< 300 ms
Indication	2 x LED
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.

MECHANICS

Dimensions (W x H x D)	16 mm x 40.1 mm x 16.7 mm
Design	Rectangular
Sending axis	Straight
Housing material	Plastic (ABS, ultrasonic transducer: polyurethane foam, glass epoxy resin)
Weight	10 g
Connection type	Male connector, M8, 3-pin

AMBIENT DATA

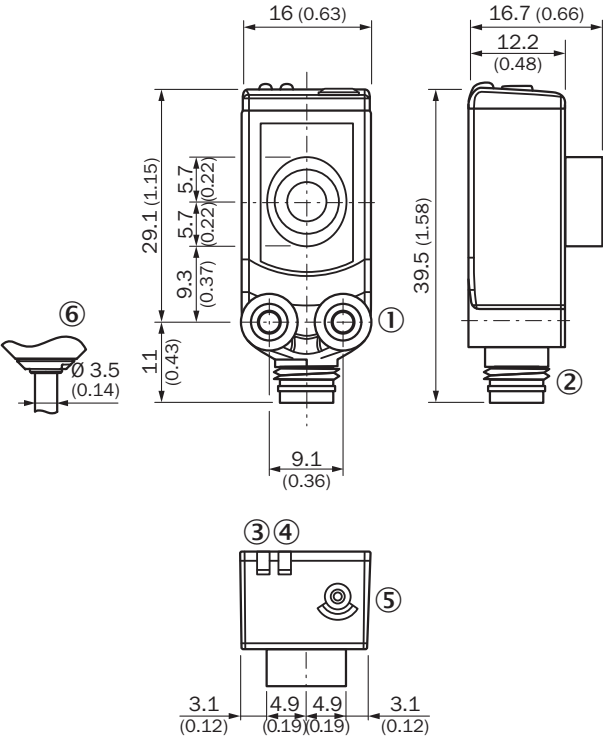
Ambient temperature, operation	-25 °C ... +70 °C ¹⁾
Ambient temperature, storage	-40 °C ... +85 °C

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

CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
China Compulsory Product Certification (CCC) exempt	✓
cULus certificate	✓

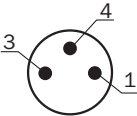
DIMENSIONAL DRAWING



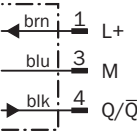
Dimensions in mm (inch)

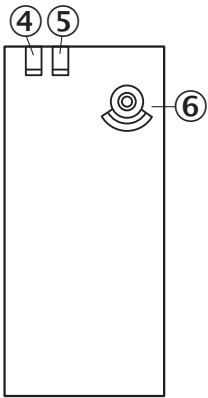
- ① Threaded mounting hole M3
- ② Connection
- ③ status indicator digital output (orange)
- ④ Status display for supply voltage active (green)
- ⑤ Control elements

CONNECTION TYPE CONNECTOR M8, 3-PIN

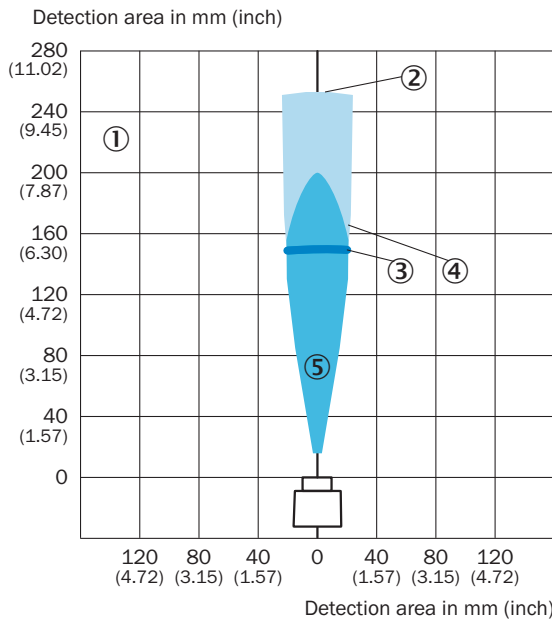


CONNECTION DIAGRAM



ADJUSTMENT POSSIBLE

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

DETECTION AREA UC4-13

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6034669



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SICK AT A GLANCE

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SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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