UC4-11345
UC4

ULTRASONIC DISTANCE SENSORS

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
UC4-11345	6034668

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	Plastic (ABS, ultrasonic transducer: polyurethane foam, glass epoxy resin)
Connection type	Male connector, M8, 3-pin
Indication	2 x LED
Weight	10 g
Sending axis	Straight
Dimensions (W x H x D)	16 mm x 40.1 mm x 16.7 mm
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.

Safety-related parameters

MTTF$_D$	101 years
DC$_{avg}$	0%

Performance

Operating range, limiting range	13 mm … 100 mm, 150 mm [1]
Target	Natural objects
Resolution	≥ 0.1 mm
Repeatability	± 0.15 % [2]

[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.

Accuracy	± 1 % [3]
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]

[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	NPN
Maximum output current I_A	≤ 200 mA
Hysteresis	2 mm

[1] NPN: HIGH = ≤ 2 V / LOW = U_V.

Ambient data

Ambient temperature, operation	–25 °C ... +70 °C [1]
Ambient temperature, storage	–40 °C ... +85 °C
Temperature drift	0.17 % / K [2]

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

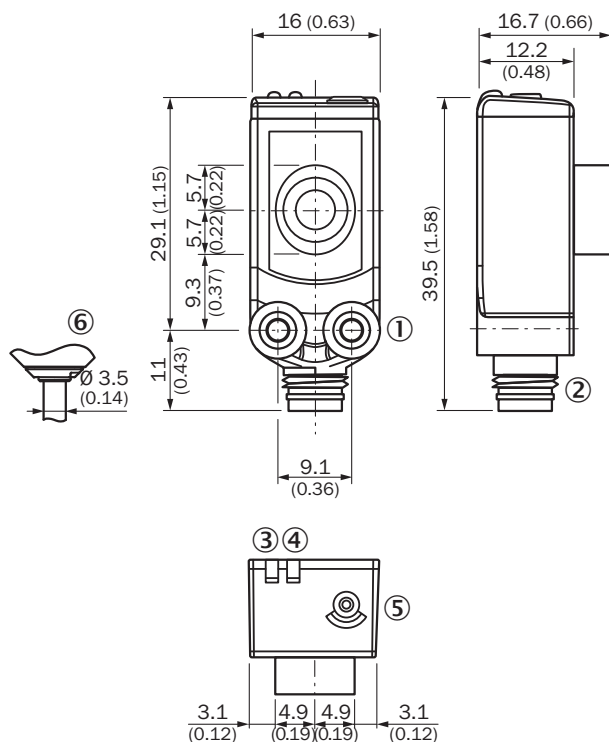[2] Referring to current measurement value.

Classifications

ECLASS 5.0	27270804
ECLASS 5.1.4	27270804
ECLASS 6.0	27270804
ECLASS 6.2	27270804
ECLASS 7.0	27270804
ECLASS 8.0	27270804
ECLASS 8.1	27270804
ECLASS 9.0	27270804
ECLASS 10.0	27270804
ECLASS 11.0	27270804
ECLASS 12.0	27272806
ETIM 5.0	EC001846
ETIM 6.0	EC001846

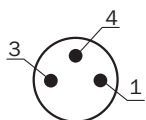| ETIM 7.0	EC001846
ETIM 8.0	EC001846
UNSPSC 16.0901	41111960

Dimensional drawing (Dimensions in mm (inch))
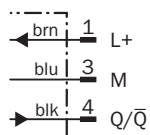
① Threaded mounting hole M3
② Connection
③ Status indicator digital output (orange)
④ Status display for supply voltage active (green)
⑤ Control elements

Connection type

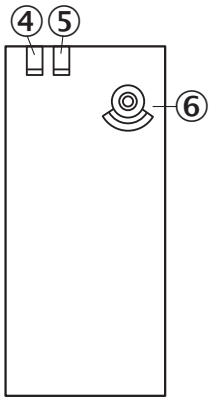Connector M8, 3-pin

Connection diagram

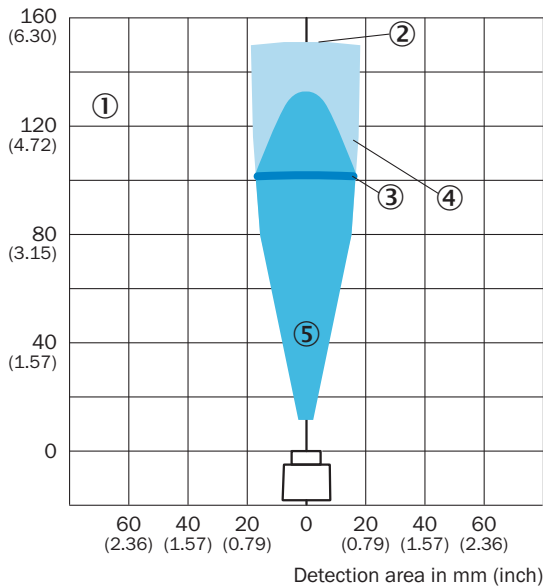| brn | 1 | L+ |
| blu | 3 | M |
| blk | 4 | Q/$\overline{Q}$ |

Adjustment possible

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

Detection area

UC4-11

Detection area in mm (inch)

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.
Hardware			
	Accessory for ultrasonic channeling for the product family UC4	SonicTube UC4	5329249
Mounting brackets and plates			
	Mounting bracket for wall mounting, Stainless steel 1.4571, mounting hardware included	BEF-W4-A	2051628
Others			
	• **Connection type head A:** Female connector, M8, 3-pin, straight, A-coded • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 2 m, 3-wire, PVC • **Description:** Sensor/actuator cable, unshielded • **Application:** Zones with chemicals	YF8U13-020VA1XLEAX	2095860

SICK AT A GLANCE

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:

Contacts and other locations –**www.sick.com**

SICK AG | Waldkirch | Germany | www.sick.com

SICK
Sensor Intelligence.