UC30
Rugged. Reliable. Rectangular.

ULTRASONIC SENSORS

SICK
Sensor Intelligence.
Product description
The sensors of the UC30 product family impress with excellent performance in a compact cubic housing. Due to color-independent detection, high contamination tolerance and outstanding background suppression, UC30 sensors deliver stable measurement results even under challenging conditions. Various output signals with sensing ranges of up to 8,000 mm as well as high measurement accuracy due to the integrated temperature compensation leave no applications unsolved. Teach-in buttons and IO-Link also extend the diagnostic and configuration options of these ultrasonic sensors.

At a glance
• Reliable measurement, regardless of material color, transparency, gloss, or ambient light
• Rugged housing with teach-in buttons
• Sensing ranges up to 8,000 mm
• Analog output, push-pull digital output with IO-Link or two PNP/NPN digital outputs
• Immune to dirt, dust, humidity, and fog
• Adjustable sensitivity

Your benefits
• Compact cubic housing for straightforward machine integration
• Rugged, plastic housing ensures highest plant availability
• Various output signals for solving complex applications available
• IO-Link with many diagnostic options for fault-free operation and simple maintenance
• Teach-in buttons for fast and easy commissioning
• Rugged ultrasonic technology, measures reliably even in dirty, dusty, humid, and foggy conditions
• Integrated temperature compensation ensures high measurement accuracy at all times for optimum process quality
Fields of application

- Level regulation for liquids and bulk materials
- Detection, measurement and positioning of dark, shiny, and transparent materials
- Diameter check for metal, paper, and plastic coils
- Continuous detection of fabrics and wire grids
- Collision avoidance
- Outdoor applications
### Ordering information

Other models and accessories ➔ [www.sick.com/UC30](http://www.sick.com/UC30)

- **Operating range, limiting range**: 350 mm ... 3,400 mm, 5,000 mm
- **Connection type**: male connector, M12, 5-pin
- **Response time**: 180 ms
- **Weight**: 180 g
- **Sending axis**: straight

<table>
<thead>
<tr>
<th>Digital output</th>
<th>Communication interface</th>
<th>Communication Interface detail</th>
<th>Type</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x push-pull: PNP/NPN</td>
<td>IO-Link</td>
<td>V1.0</td>
<td>UC30-21416A</td>
<td>6054710</td>
</tr>
<tr>
<td>2 x NPN</td>
<td>-</td>
<td>-</td>
<td>UC30-214164</td>
<td>6054713</td>
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<tr>
<td>2 x PNP</td>
<td>-</td>
<td>-</td>
<td>UC30-214162</td>
<td>6054711</td>
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</tbody>
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- **Connection type**: male connector, M12, 5-pin
- **Response time**: 180 ms (Subsequent smoothing of the analog output, depending on the application, may increase the response time by up to 200 %.)

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<tr>
<th>Type of analog output</th>
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<th>Sending axis</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Power output / voltage output</td>
<td>-</td>
<td>180 g</td>
<td>Straight</td>
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<td>6054712</td>
</tr>
</tbody>
</table>

- **Operating range, limiting range**: 600 mm ... 6,000 mm, 8,000 mm
- **Connection type**: male connector, M12, 5-pin
- **Response time**: 240 ms
- **Weight**: 240 g
- **Sending axis**: straight

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<td>UC30-215164</td>
<td>6054717</td>
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<tr>
<td>2 x PNP</td>
<td>-</td>
<td>-</td>
<td>UC30-215162</td>
<td>6054715</td>
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<tr>
<td>Power output / voltage output</td>
<td>-</td>
<td>240 g</td>
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<td>UC30-215163</td>
<td>6054716</td>
</tr>
</tbody>
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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