



UC12

Ultrasonic technology housed in an industry-proven design

ULTRASONIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

Measuring range	Operating range	20 mm ... 250 mm (depending on type)
	Limiting range	250 mm / 350 mm (depending on type)
Resolution		≥ 0.1 mm
Repeatability		± 0.15 %
Response time		30 ms
Output time		8 ms
Switching frequency		25 Hz
Digital output	Type	PNP / NPN (depending on type)
	-	
Enclosure rating		IP65 / IP67
Sending axis		Straight

Product description

Ultrasonic technology provides reliable results where optical sensors reach their limits. The UC12 shares the same housing as common photoelectric sensors. In addition a single teach-in button enables easy setup. Dark or transparent objects are easily detected.

At a glance

- Transparent foils, glass, liquids and bottles are detected, regardless of the material color and ambient light
- Easy and quick teach-in with teach-in button
- Insensitive to dirt, dust and fog
- Two complementary digital outputs (Q, /Q)
- Very good background suppression (BGS)
- Three operating modes: Distance to Object (DtO), Window (Wnd) or Object between sensor and background (ObSB)

Your benefits

- Fast commissioning due to single-button teach-in
- Full mechanical compatibility to photoelectric sensors increase application flexibility without machine modification
- Standard proximity, window and reflection modes provide application flexibility, which increases reliability and productivity
- Integrated temperature compensation ensures high measurement accuracy
- Complementary switching outputs immediately signal broken wiring, reducing faulty production results

Ordering information

Other models and accessories → www.sick.com/UC12

- **Operating range, limiting range:** 20 mm ... 150 mm, 250 mm
- **Connection type:** male connector, M12, 4-pin
- **Response time:** 30 ms
- **Communication interface:** -
- **Weight:** 75 g
- **Sending axis:** straight

Digital output	Type	Part no.
2 x NPN	UC12-11235	6029833
2 x PNP	UC12-11231	6029831

- **Operating range, limiting range:** 55 mm ... 250 mm, 350 mm
- **Connection type:** male connector, M12, 4-pin
- **Response time:** 30 ms
- **Communication interface:** -
- **Weight:** 75 g
- **Sending axis:** straight

Digital output	Type	Part no.
2 x NPN	UC12-12235	6029834
2 x PNP	UC12-12231	6029832

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