

DATASENSING QU6 ULTRASONIC SENSOR

QU6/D1-0E

Ultrasonic sensor cubic analogue 0-10 V 600-6000mm

- Long range of up to 6,000mm
- Plastic housing
- Current or voltage output models
- IP65 protection level



PRODUCT DESCRIPTION

The QU6 series ultrasonic sensors from Datasensing, formerly known as Micro Detector, offer a versatile and highly reliable solution for a wide range of industrial applications. Designed with precision and efficiency in mind, these cubic sensors utilize ultrasonic waves to detect objects and measure distances with exceptional accuracy. Whether used for automation, robotics, automotive systems, or even healthcare applications, the QU6 series ensures consistent performance in the most demanding environments.

These sensors operate by emitting high-frequency sound waves and measuring the time it takes for them to bounce back from a target object. This non-contact detection method allows for reliable sensing of materials regardless of colour, transparency, or surface texture—making them an ideal choice for industries where optical sensors may struggle. With options for both current and voltage analogue outputs, the QU6 series provides flexibility to integrate seamlessly into existing control systems.

Built for durability and long-term use, the QU6 series sensors are housed in a robust cubic design that ensures stability and resistance to harsh industrial conditions. Their compact form factor allows for easy installation in tight spaces, making them a go-to solution for engineers looking to optimize efficiency without compromising performance. Whether for presence detection, level monitoring, or positioning tasks, these ultrasonic sensors deliver superior results with precision and reliability.

Technical Features

- Sensing Technology: Ultrasonic, non-contact detection
- Detection Range: Wide measurement range for various industrial applications
- Operating Frequency: Typically, above 20 kHz, ensuring reliable detection
- Analog Outputs: Available in 4-20 mA (current) and 0-10V (voltage) configurations
- Response Time: Fast processing for real-time object detection
- Operating Voltage: Designed for DC power supply, typically 10-30V DC
- Environmental Protection: High resistance to dust, moisture, and extreme temperatures, suitable for harsh industrial environments
- Housing Material: Robust cubic design for easy installation and durability
- Mounting Options: Flexible mounting choices for seamless integration into automation systems
- Operating Temperature Range: Designed to function in various temperature conditions for industrial use
- Connectivity: Standard M12 connector or cable connection for easy setup
- IP Rating: High IP67 protection for resistance against water and dust intrusion

TECHNICAL DATA

Distance max

6000 mm

Distance min	600 mm
Electrical connection	M12 plug cable exit
Housing	Cubic
IP class	IP65, IP67
LED indication	No
Material of body	PBT
Output	0-10V
Photocell technology	Through beam
Supply voltage dc max	30 V DC
Supply voltage dc min	15 V DC
Temperature operational max	70 °C
Temperature operational min	-20 °C

electrical diagrams of connections

QUAD-18™

plug

M12 QUAD-18™

dimensions (mm)

● P2

● P1

● EDHG

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