



Ultrasonic Sensors UTR Series

Detection and Measurement Solution for Various Materials and Surfaces

Detect and Measure Various Target Material with Ultrasonic Sensing

Cylindrical Ultrasonic Sensors UTR Series

The UTR series cylindrical ultrasonic sensors can detect and measure distance of objects by emitting and receiving high frequency sound waves and measuring the time lapse in between. Ultrasonic sensing method allows detection of various material and surface types with a maximum detection distance of up to 8 m.

The sensors also offer temperature tracking, detection width conversion, and other various functions to provide accurate and precise measurement. Ultrasonic sensors can be used in various applications including presence detection and liquid/solid/powder level measurement.

Features

- Detect and measure various material and surface types with ultrasonic sensing
- Sensing distance (by mount diameter)
 - M18 mm : 120 to 1,300 mm
 - M30 mm : 600 to 8,000 mm
- Temperature compensation (auto/manual) and detection width conversion function for high accuracy
- 316L stainless steel body for high corrosion resistance
- 360° ring type indicator to check operation status from any direction
- Digital output (Push-Pull) support
- IO-Link models, simultaneous digital and analog output models available
- Configure settings and monitor status with ultrasonic sensor programming units (UT-P)
- Dedicated software provided (atDistance)
- Protection structure: IP67 (IEC standard)



Ultrasonic Sensors vs Photoelectric Sensors vs Laser Sensors vs Proximity Sensors

Item	Ultrasonic Sensors	Photoelectric Sensors	Laser Sensors	Proximity Sensors
Distance Measurement	○	×	○	×
Luster Detection	○	×	○	○
Transparent Objects Detection (Glass/Film)	○	×	×	△
Transparent Liquid Detection	○	×	×	△
Objects with Holes Detection	○	△	×	△
Uneven Objects Detection	○	△	△	△
Ambient Humidity	△	×	△	○
Against Water/Dust	Strong	Weak	Weak	Strong
Detection Area	Wide	Narrow	Narrow	Narrow

* This table is only for reference. Actual performance may differ depending on user environments.

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Products

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- Pressure Sensors • Pressure Transmitters • Smart Camera • Vision Sensors • Safety Light Curtains • Safety Door Switches • Safety Switches
- Safety Controllers • Safety I/O Terminal Blocks • Temperature Controllers • Solid State Relays • Power Controllers • Counters • Timers
- Digital Panel Meters • Digital Display Units • Sensor Controllers • SMPS • Industrial PC • HMIs • Recorders • Indicators • Network Converters
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- Industrial Networking • I/O Terminal Blocks • Distribution Boxes • Cables • Control Switches / Pilot Lights / Buzzers • Software

* The dimensions or specifications on this product guide may change and some models may be discontinued without notice.

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