



Productivity through Precision.

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Acuity® AR 700 Part Number Guide

AR700

AR700 Ordering Information

Table with 2 columns: Part# and Description. Includes sub-sections for Laser Sensors (AR700-0125, AR700-0250, AR700-0500, AR700-1, AR700-2, AR700-4, AR700-6, AR700-8, AR700-12, AR700-16) and their respective specifications.



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Table with 2 columns: Part Number and Description. Rows include AP7422160, AP7432160, AP7434160, AR700-24 Laser Sensors (AP7620240, AP7630240, AP7622240, AP7632240), AR700-32 Laser Sensors (AP7620320, AP7630320, AP7622320, AP7632320), and AR700-50 Laser Sensors (AP7620500, AP7630500, AP7622500, AP7632500).

AR700 Accessory Order Information

Table with 2 columns: Part Number and Description. Rows include AR700 Connectivity Kits (AQ7000001, AQ7000002, AQ7000011, AQ7000012) and AR700 Touch Panel Display (AQ9900007).

*See page 3 for ordering descriptions, if needed.



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Bandpass Filter: Internally installed. Suggested for outdoor applications or when measuring to bright or radiating targets.

Higher Laser Power: Diode upgrades to visible red 20mW (660 nm, Class 3B) for high sample rates on dark surfaces or in high ambient light.

Road Profiling Option: Package for AR700-6 or -8. Includes specialized optics, upgraded diode, bandpass filter and signal processing firmware optimized for use in high-speed longitudinal road surface profiling.

Cables: Acuity offers different cable configurations to meet your special needs. For custom cable requirements, please let us know.

Connectivity Kits: Acuity sells a connectivity kit to aid in connecting your laser to a power supply and serial port. This product includes a 120V, 15 VDC, AC power supply; a serial cable with DB9 connector; and a solid-state, NEMA-4X interface box. The interface box includes two sets of terminal blocks for simple input (from sensor) and output (to your selected device), a DB9 male serial connector out, and a barrel style power connector in. You can either pass through the wiring to another unterminated cable, connect a DB9 serial cable directly to the interface box, or both at the same time.

AQ7000001 - 120 V version with an US-style plug

AQ7000002 - 240 V version with a European-style plug

AQ7000005 – w/ serial to USB cable for ease of connection into industrial computers - US plug

AQ7000006 – w/ serial to USB cable for ease of connection into industrial computers - Euro plug

Touch Panel Display: Stand-alone terminal interface for use with Acuity laser distance sensors. These fully enclosed units replace panel meters, alphanumeric displays, and analog controllers by providing a modern interface through a full-color LCD and touch screen. The Touch Panel Display communicates with one or two Acuity sensors using RS-232 serial interfaces. The touch panel can be easily configured using on-screen buttons to display, scale, and even graph the sensors' distance outputs. Relative dimensions can be measured using a tare function. With two Acuity sensors, the touch panel can serve as a thickness gauge. Limits can be programmed into the touch panel to give a visual warning to operators that the target is too close or too far or too thick or too thin. With a USB flash drive, measurements can be logged and saved for further analysis.