



Productivity through Precision.

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Acuity® AR 100 Part Number Guide

AR100

APR100WZZ AR100 ordering notes

See the AR100 data sheet for model specifications.

All AR100 sensors standard with 5m cables.

Please verify part number and price with Acuity Sales prior to issuing a PO

W = 1 for Red Laser, 0-10V, RS-232, 5-meter cable
W = 2 for Red Laser, 4-20mA, RS-232, 5-meter cable
W = 3 for Red Laser, 0-10V, RS-485, 5-meter cable
W = 4 for Red Laser, 4-20mA, RS-485, 5-meter cable
W = 5 for Blue Laser, 0-10V, RS-232 Out, 5-meter cable
W = 6 for Blue Laser, 4-20mA, RS-232 Out, 5-meter cable
W = 7 for Blue Laser, 0-10V, RS-485 Out, 5-meter cable
W = 8 for Blue Laser, 4-20mA, RS-485 Out, 5-meter cable

ZZ = 01 for 10 mm Range - Base Distance 20 mm*
ZZ = 02 for 25 mm Range - Base Distance 20 mm*
ZZ = 05 for 50 mm Range - Base Distance 30 mm*
ZZ = 10 for 100 mm Range - Base Distance 55 mm*
ZZ = 25 for 250 mm Range - Base Distance 65 mm*
ZZ = 50 for 500 mm Range - Base Distance 105 mm*

* Base Distance is from the face of the laser to the beginning of the measurement range.

Example part number: APR100205 – AR100 red laser, Base Distance -30 mm, 50 mm Range, 4-20mA, RS-232, 5-meter cable

AR100 Accessory Ordering Notes

AR100 Connectivity Kits

AQ7000001 Connectivity Kit – US Plug
AQ7000002 Connectivity Kit – EU Plug
AQ7000005 Connectivity Kit – US Plug (serial to USB)
AQ7000006 Connectivity Kit – EU Plug (serial to USB)

AR100 Touch Panel Display

AQ9900008 Touch Panel Display – 8" Screen, Linux

*See page 2 for ordering descriptions



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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 (AQ9900008): 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 up to 6 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 paired together, 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.

Cables: AR100 sensors come standard with 5m cable length. Different cable lengths are available upon request.