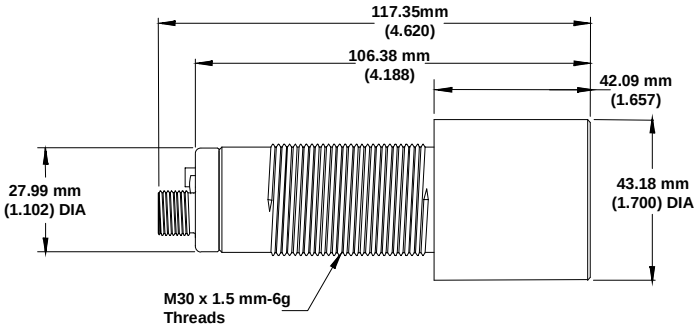
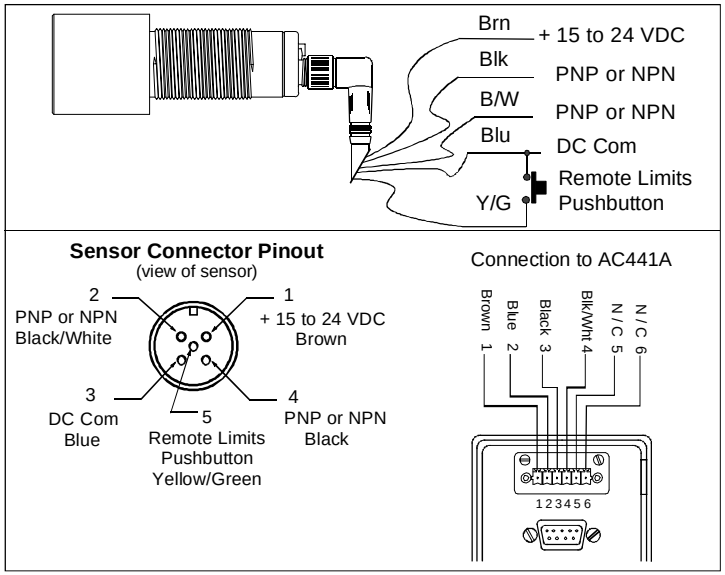
Mounting and Wiring

Mount the sensor firmly so that the object to be detected is never within 304.8 mm (12.00 inches) of the face of the sensor. For best results the sensor face should be parallel to the object surface. Also, the sensor should be away from air currents.

Dimensions



Wiring Connections

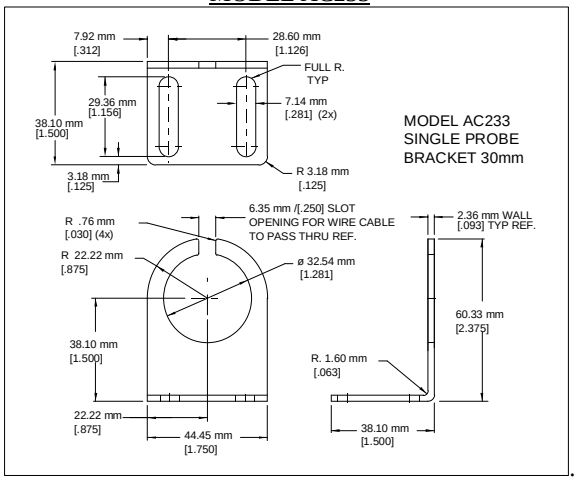


Literature and application engineering assistance are provided by Telemecanique Sensors and its authorized distributors to aid the customer in selecting the product for an application. The customer is responsible for determining the suitability of the product in the application.

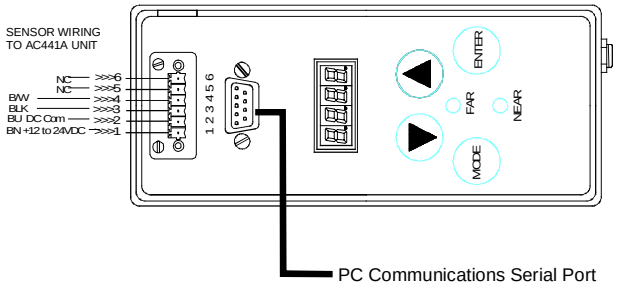
Accessories

Model AC441AUS North America Configurator Kit: Cables, AC441A, & Superprox+ SW
Model AC441A2 U.K. Configurator Kit: Cables, AC441A, & Superprox+ SW
Model AC441A3 Europe Configurator Kit: Cables, AC441A, & Superprox+ SW
Model AC441A4 Australia/N Zealand Configurator Kit: Cables, AC441A, & Superprox+ SW
Model AC441A5 South African Configurator Kit: Cables, AC441A, & Superprox+ SW

MODEL AC233



AC441A - Handheld Configurator



⚠WARNING

UNINTENDED OPERATION

Do not use this product to detect objects within the deadband.

Failure to follow this instruction can result in death, serious injury or equipment damage.

General Specifications

Power Supply: +12 to 24 VDC @ 80 mA, excluding load

Sinking Output:
Maximum on-state voltage @ 100 mA: 0.37 volts
Maximum load current: 100 mA
Maximum applied voltage: 35 VDC
Protection: ESD and over-current

Sourcing Output:
Maximum on-state voltage drop @ 100 mA: 1.0 volts
Maximum load current: 100 mA
Maximum output voltage: Equal to supply voltage
Protection: ESD and over-current

Operating Temperature:
-40°C to 60°C (-40°F to 140°F) @ 100% relative humidity
Note: At temperatures below -20C/-4F the Sensing range may be less depending upon target material, target shape, and wind conditions.

Sensing:
Span: 304.8 to 8,001.0 mm (12.00 to 315.00 inches)
Limit Adjustment Resolution: 0.254 mm (0.010 inch)
Sensor Angle with respect to smooth flat surface: 90° ± 10°
Repeatability: ± 0.86 mm (0.034 inch) from smooth flat surface at constant air temperature

Quick Disconnect Cables (Optional):
XZCPV1164L2 Straight, 5-conductor, PVC, 2 meters (6.6 feet)
XZCPV1141L2 Straight, 4-conductor, PVC, 2 meters (6.6 feet)

Sensor Housing Material:
Case: PEI
Face: Epoxy – White

Sensor Ratings and Approvals
NEMA 4X (Indoor Use Only) 5, 12, 12K, 13, and IP67
Installation/Overvoltage Category: II
This Product is UL Listed if powered by a Class II Power Supply and protected by a 2.0A Max UL Listed Fuse

CE Mark Compliant: Declaration of conformity available upon request

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Email:help@tesensors.com
Web Site: http://www.tesensors.com

HYDE PARK®
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Ultrasonic Proximity Sensor, 30 mm, Configurable Unit
NPN or PNP Outputs, Remote Teach Option

Telemecanique Sensors

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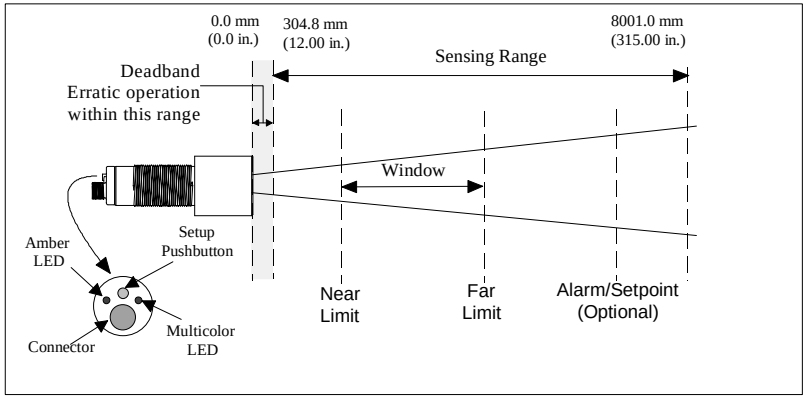
OPERATOR INSTRUCTIONS

This self-contained, reconfigurable ultrasonic proximity sensor provides two outputs. Objects that are transparent, opaque, plastic, glass, metal, liquid, or solid can be detected within the sensing range. A multicolor LED indicates the zone of the object. This sensor is configured by connecting it to an AC441A unit and running Superprox+ software on your PC.



Setting the Window Limits

Setup Using Remote Switch or Remote Pushbutton
This sensor provides a 5th wire (Pin 5 -Yellow/Green on XZCPV1164L2 cable) which can be connected to Com (Pin 2 - Blue cable wire) with a remote switch or pushbutton.

With Limit Pushbutton Armed/Enable set to greater than zero (3 sec for example):
To teach the window limits, activate the remote switch (the multicolor LED rapidly flashes amber) until the multicolor LED flashes green (about 3 seconds), and then release the switch. The multicolor LED continues flashing green. Align a flat object parallel to the sensor face at the desired distance for either the Far or Near window limit. Activate the remote switch to set the first limit. Upon deactivation of the switch, the multicolor LED flashes amber indicating the first limit is set. Align the flat object at the second window limit, then activate and deactivate the remote switch. The second limit is now set and upon release of the switch, the multicolor LED turns to the color that indicates where the object is located. While the switch is activated, the multicolor LED turns amber to indicate the sensor detects the object. If the sensor does not detect the object, the multicolor LED is red while the switch is activated. When the switch is released after not detecting an object, the multicolor LED flashes red 2 seconds, and then requests that limit again, flashing green to request the first limit or amber for the second limit.

With Limit Pushbutton Armed/Enable set to zero:
In this mode, the teach mode is always armed. Teaching of the first window limit occurs with the first activation and deactivation of the remote switch. From this point, the procedure is the same as the procedure used with the Armed/Enable set greater than zero.