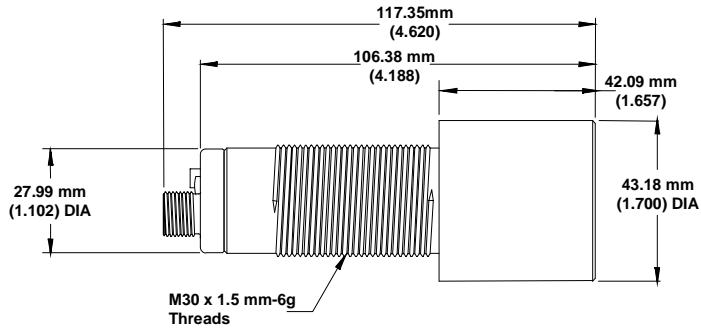


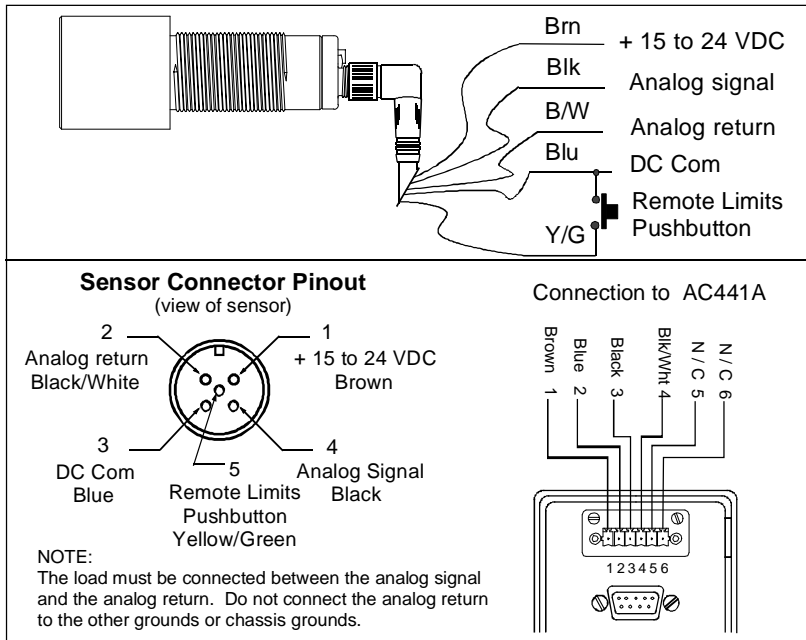
Mounting and Wiring

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



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.

Accessories

Model XXZPB101	Remote Teach Accessory
Model XZCPV1164L2	Straight connector, 5-conductor, PVC, 2 m (6.6 ft.)
Model XZCPVB1141L2	Straight connector, Shielded, 4-conductor, PVC, 2 m (6.6 ft.)
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

Setting the Window Limits

Setup Using Remote Switch or Remote Pushbutton - Requires XZCPV1164L2 Cable

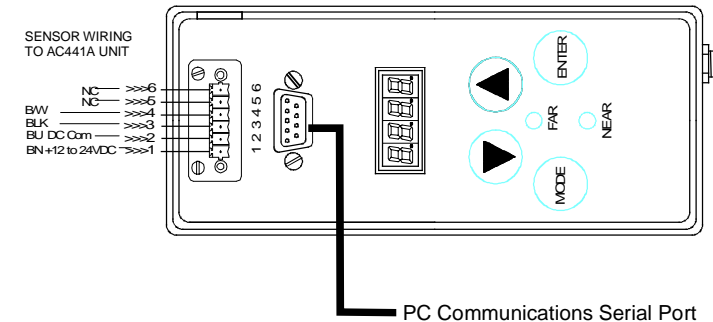
This sensor provides a 5th wire (Pin 5), which must be connected to Com (Pin 2) with a remote switch or pushbutton using an XZCPV1164L2 cable.

Setup with Limit Pushbutton Armed/Enable – Must be greater than zero (3 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 to request the second limit.

NOTE: The TP option does not support an "Armed/Enable" of "0" (always active teach function). An always active teach function is incompatible with using the remote teach input as a trigger input.

AC441A Configurator



General Specifications

Power Supply: +15 to 24 VDC @ 80 mA, excluding load

Analog Output: Min 0 V- Max 10 V

Load Resistance: 1k Ω to ∞

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:

Range: 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° \pm 10°

Repeatability: \pm 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)

XZCPVB1141L2 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

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.

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TELEMECANIQUE SENSORS / SCHNEIDER ELECTRIC USA

1875 Founders Drive
Dayton, Ohio USA 45420-4017
Phone (937) 252-2121 Fax (937) 258-5830
Email: help@tesensors.com

Web Site: <http://www.tesensors.com>

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HYDE PARK®

SUPERPROX®

SC956A8V0TP

Ultrasonic Analog Output Sensor

Configurable Unit, Voltage Output, Remote Limits Setup

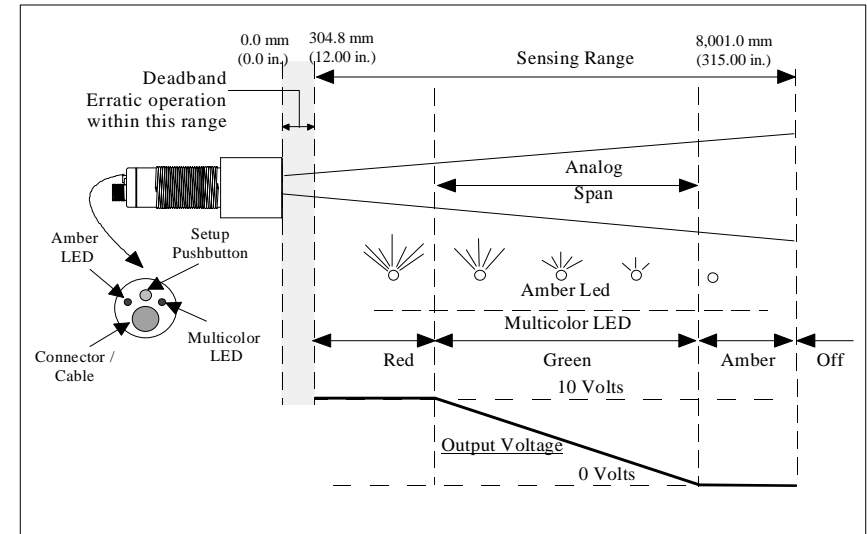
Remotely Triggered Scan Cycle

 **Telemecanique**
Sensors


LISTED
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3KVC
SUPPLY CLASS 2
FUSE 2A UL LISTED

OPERATOR INSTRUCTIONS

This self-contained, reconfigurable ultrasonic sensor provides an analog output. 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. Scan cycles are triggered by an external pulse from a remote switch, PLC, or PC.



Triggering A Scan Cycle

Triggering Using A Remote Input Using Required XZCPV1164L2 Cable

This sensor provides a 5th wire (Pin 5), which must be connected to Com (Pin 2) with a remote switch, PLC, or PC using the AC149 cable. A sensor scan cycle is triggered by a low pulse on the remote teach wire. The input to the trigger must be an open collector output (NPN) or contact switch to ground. Maximum allowed input voltage is +5 volts, and the low pulse must be between 500 μ sec to 10 msec. If the low pulse is longer than 10 msec, the sensor may enter the arming sequence for teaching limits. During the teach mode, the sensor cycles at the configured cycle time, which is usually 100 msec.

NOTE: When using a teach pushbutton, the remote trigger pulse input should be unconnected.