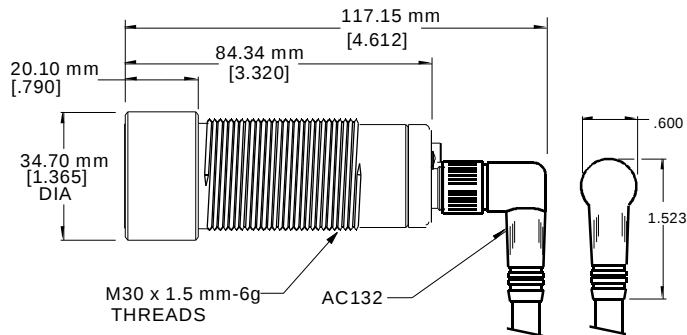


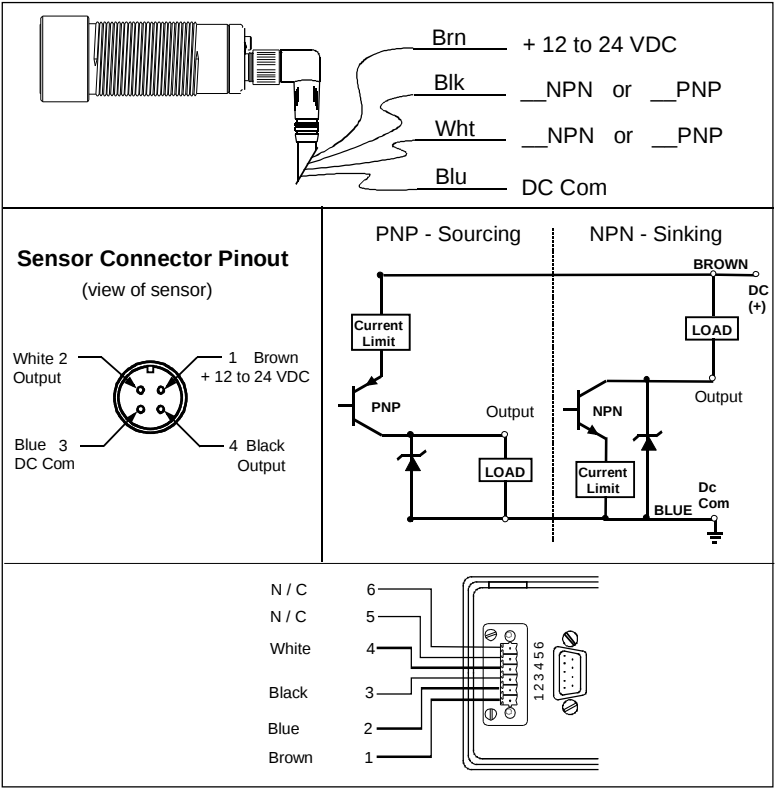
Mounting and Wiring

Mount the sensor firmly so that the object to be detected is never within 51 mm (2.0 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

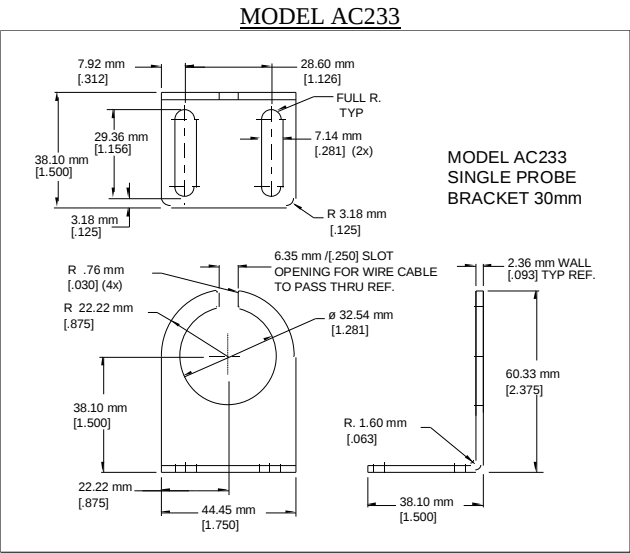


Wiring Connections

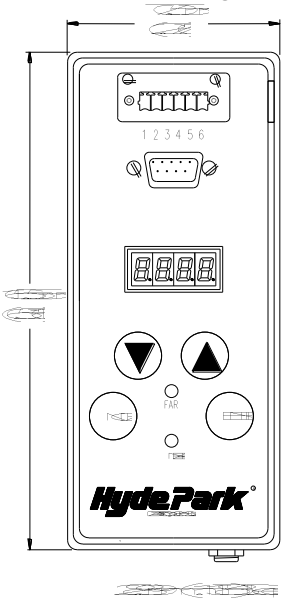


Accessories

- Model: AC130 straight, 4-conductor, 5 meters (16 feet)
- Model: AC132 right-angle, 4 conductor, 5 meters (16 feet)
- Model AC233 mounting bracket, right angle
- Model AC250-n pipe mounting reducer 30mm-‘n’NPT (1=1.25”, 2”, 3”, 4”)
- Model AC251-n flange mounting adapter 30mm - ‘n’ NPT (2”, 3”, 4”)
- Model AC441 handheld configurator



AC441 - Handheld Configurator



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:

0°C to 50°C (32°F to 122°F) @ 100% relative humidity

Sensing:

Span: 51 to 991 mm (2.0 to 39.0 inches)

Limit Adjustment Resolution: 0.08 mm (0.003 inch)

Sensor Angle with respect to smooth flat surface: $90^\circ \pm 10^\circ$

Repeatability: ± 0.86 mm (0.034 inch) from smooth flat surface at constant air temperature

Quick Disconnect Cables (Optional):

AC130: straight, 4-conductor, 5 meters (16 feet)

AC132: right-angle, 4-conductor, 5 meters (16 feet)

Sensor Housing Material:

Case: PEI

Face: FDA approved silicone rubber

Sensor Ratings and Approvals

NEMA 1, 3, 4x, 12, 13, and IP 67

Installation/Overvoltage Category: II

LIMITATIONS AND EXCLUSION OF WARRANTIES

All goods purchased from Hyde Park Electronics LLC shall be free from defects in materials, design and workmanship under normal conditions of use for one year from the date of shipment. THIS WARRANTY IS THE SOLE WARRANTY AND IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF HYDE PARK TO ANY PURCHASER SHALL BE LIMITED EXCLUSIVELY TO THE COST OF REPLACEMENT OR REPAIR OF DEFECTIVE PARTS, AND SHALL NOT INCLUDE LIABILITY FOR ANY DIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES WHATSOEVER, WHETHER FORESEEN OR UNFORESEEN, INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOST SALES, OR INJURY TO PERSONS OR PROPERTY.

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SUPERPROX[®]



SC950A-100

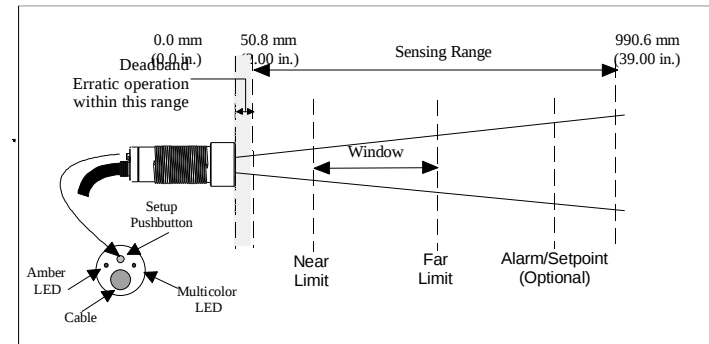
Ultrasonic Proximity Sensor

30 mm, Configurable Unit

NPN or PNP Outputs

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

Depress the SETUP pushbutton (the multicolor LED rapidly flashes amber to indicate the pushbutton is pressed) until the multicolor LED flashes green (about 3 seconds), and then release the SETUP pushbutton. The multicolor LED continues flashing green indicating the sensor is waiting for the first limit. Align a flat object parallel to the sensor face at the desired distance position for either window limit, and press the SETUP pushbutton once. Upon release of the SETUP pushbutton, the multicolor LED flashes amber indicating the first limit is set and the sensor is waiting for the second limit. Align a flat object parallel to the sensor face at the desired position for the second window limit and press the SETUP pushbutton once. Upon release of the SETUP pushbutton, the multicolor LED turns to the color that indicates where the object is located. The sensor has no timeout for setting limits.

While the SETUP pushbutton is depressed, 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 SETUP pushbutton is depressed, and when the SETUP pushbutton is released after not detecting an object, the multicolor LED flashes red 2 seconds, and then requests that limit again by flashing green for the first limit or flashing amber for the second limit.

Limits are saved in nonvolatile memory and retained when power is removed from the sensor.

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