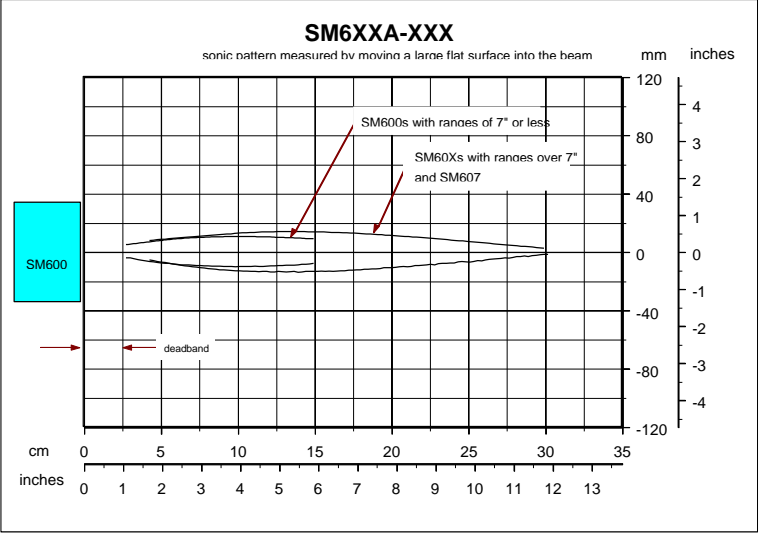


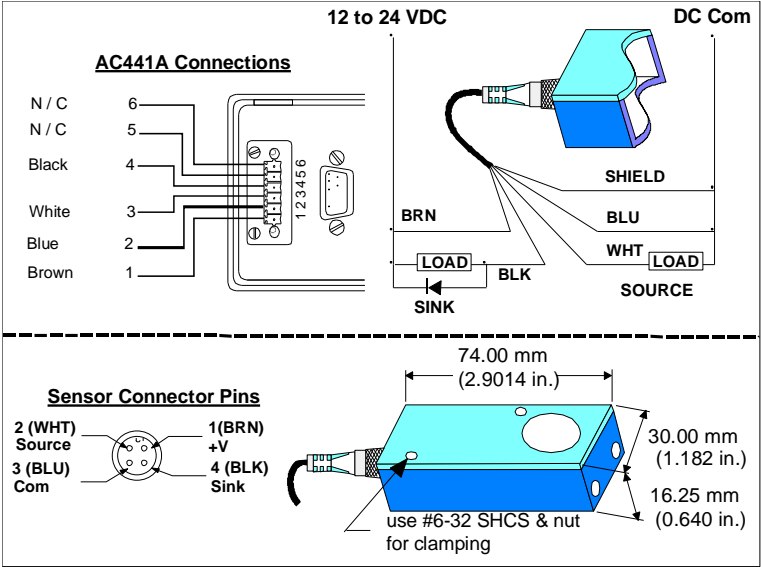
Beam Plot



Mounting / Alignment

Mount the sensor such that the reflective surface of the object to be detected is approximately centered within the sensor’s sensing window. Mount the sensor firmly to avoid vibration. For best results, the sensor face should be parallel to the liquid or material surface and free of air currents.

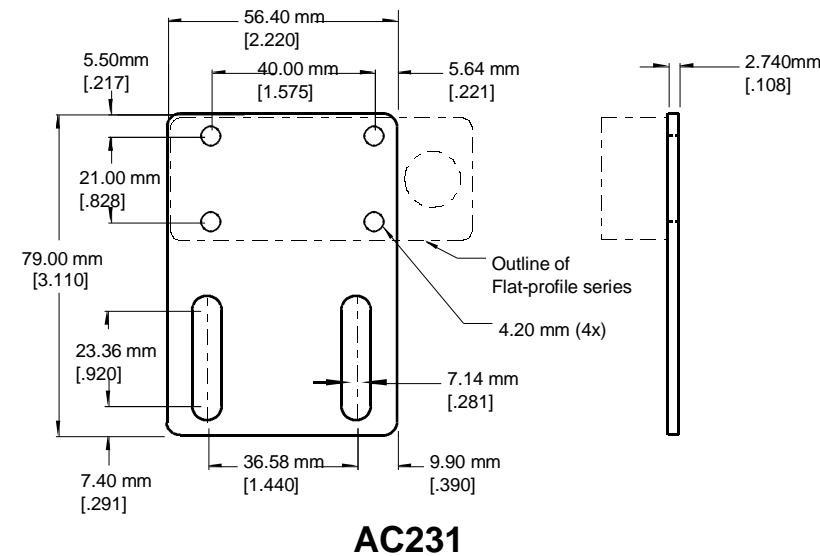
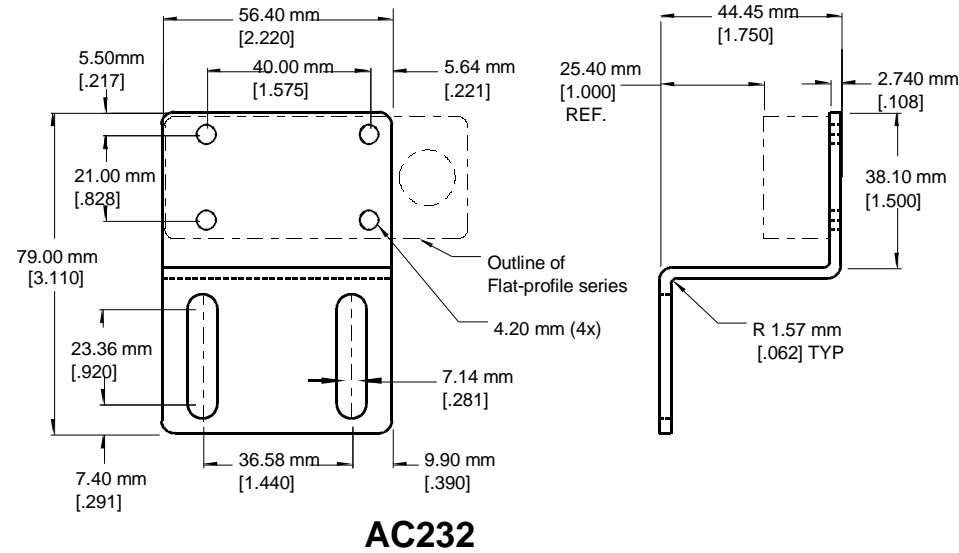
Wiring Connections, Connector Model



Accessories

- Model: AC130 Straight Sensor Cable - 5 meters
- Model: AC231 Mounting Bracket, Straight
- Model: AC232 Mounting Bracket, S-Shaped
- Model: AC441A Handheld Configurator

Mounting Bracket Dimensions



General Specifications

Power Supply:

Supply:	+12 to 24 VDC @ 50 mA max. (excluding output load)
Protection:	ESD and reverse-polarity

Sinking Output:

Maximum on-state voltage drop @ 100mA:	1.0 V
Maximum load current:	100 mA
Maximum applied voltage:	30 VDC
Protection:	ESD and over-current

Sourcing Output:

Maximum on-state voltage drop @ 200mA:	0.9 V
Maximum load current:	200 mA
Maximum output voltage:	Equal to supply voltage
Protection:	ESD and over-current

Operating Temperature:

@ 12 VDC supply	0 to 60°C (32°F to 140°F) @ 100% relative humidity
@ 24 VDC supply	0 to 50°C (32°F to 122°F) @ 100% relative humidity

Sensing:

Maximum far limit:	254.0 mm (10.00 in.)
Window-edge accuracy:	± 0.69 mm (0.027 in.)
Maximum plane-reflector angle:	± 10°
Sonic Cone Angle:	10° @ 50.8 mm (2.0 in.) total angle
Minimum object size (rod shape):	1.6 mm (0.06 in.) @ 38 mm (1.5 in.) distance
Sensor Dimensions:	74.00 mm (2.913) x 30.00 mm (1.182) x 16.25 mm (.640)

Sensor Cable:

Model No. AC130- Straight Cable, 5 meters (16 ft.)
(Must be purchased separately)

Sensor Materials:

Housing:	PEI
Transducer face:	FDA approved silicone rubber
Cable:	Non-toxic PVC jacket
LEDs:	Polycarbonate

Sensor Ratings and Approvals:

NEMA 4X (Indoor Use Only) 5, 12, 12K, 13, and IP67

Installation/Overvoltage Category: II

CE Mark Compliant: Declaration of conformity available upon request.

This Product is UL Listed if powered by a Class II Power Supply and protected by a 2.0A Max UL Listed Fuse

SUPERPROX®

SC650A-B00FP

Flat Profile Configurable Sensor

Maximum Far Limit Distance 254.0 mm (10.00 in.) from Sensor Face

OPERATOR INSTRUCTIONS

This self-contained, ultrasonic proximity sensor is capable of sensing most objects within its sensing range (Fig.1). Objects that are transparent, opaque, plastic, glass, metal, liquid or solid can be detected if located within the sensing window. Sensor is reconfigured via the AC441A handheld configurator and SUPERPROX+ configuration software.

HydePark
Sensors for the Real World

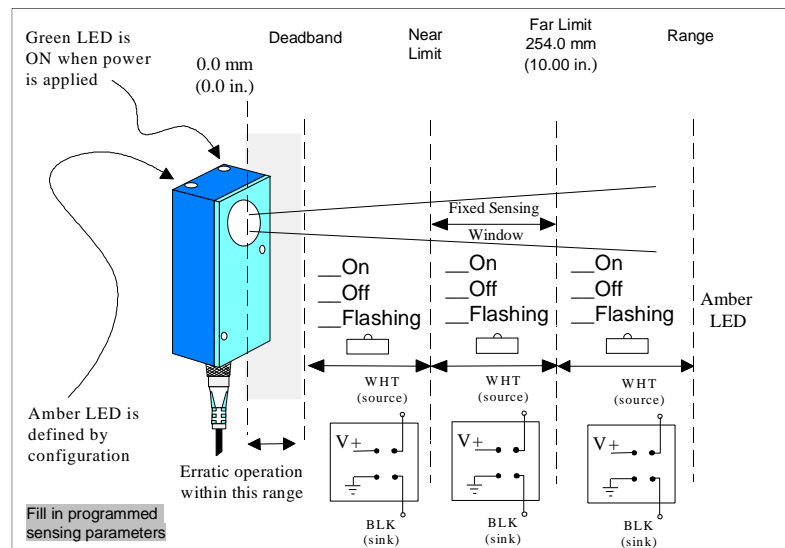


Figure 1

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.

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.

HYDE PARK ELECTRONICS LLC

1875 Founders Drive
Dayton, Ohio 45420-4017
Phone (937) 252-2121 Fax (937) 258-5830
Email: help@sesensors.com
Web Site: <http://www.sesensors.com>

© 1997-2008 Hyde Park Electronics LLC