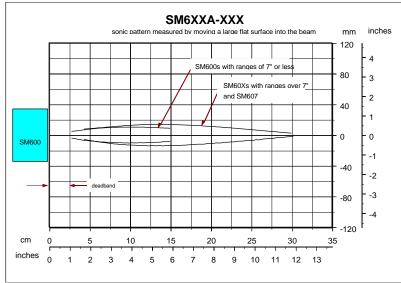
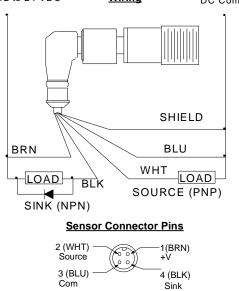
#### **Beam Plot**



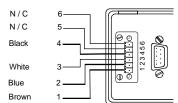
# **Mounting / Alignment**

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.

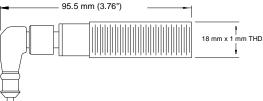
# Wiring Connections, Connector Model 12 to 24 VDC Wiring DC Com



# AC441A Connections



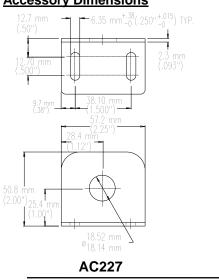
# Dimensions

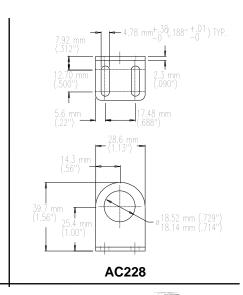


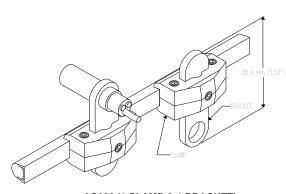
#### **Accessories**

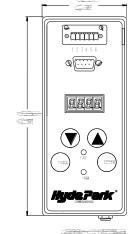
Model	AC117	Rt. Angle Connector Cable - 5 meters (16 ft.)
Model	AC127	Straight Connector Cable - 5 meters (16 ft.)
Model	AC226	Conveyor Rail Clamp/Bracket Set
Model	AC227	Mounting Bracket, Large (ACxxx Retrofit)
Model	AC228	Mounting Bracket, Small
Model	AC240	Mounting Bracket, Flat
Model	AC441A	Handheld Configurator

#### **Accessory Dimensions**









AC226 (1 CLAMP & 1 BRACKET)

AC441A - Handheld Configurator

#### **General Specifications**

**Power Supply:** 

+12 to 24 VDC @ 50 mA max. (excluding output load) Supply:

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

Sensina:

Maximum Far Limit: 254.0 mm (10.00 in.) Window-edge accuracy:  $\pm 0.69 \text{ mm} (0.027 \text{ in.})$ 

Maximum plane-reflector angle:  $+ 10^{\circ}$ 

10° @ 50.8 mm (2.0 in.) total angle Sonic Cone Angle:

Minimum object size (rod shape): 1.6 mm (0.06 in.) @ 38 mm (1.5 in.) distance

Sensor Dimensions:

Threads: 18 mm x 1 mm 64.7 mm (2.55 in.) Length:

Sensor Cable: Model No. AC117 - 5 meters (16 ft.) (Must be purchased separately)

Sensor Materials:

Housing: Stainless Steel

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:

**CE** 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

#### 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

### **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

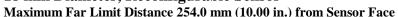
# **SUPERPROX®**



# SC650A-B00S

# **Ultrasonic Proximity Sensor**

18 mm Diameter, Reconfigurable Sensor





### **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.

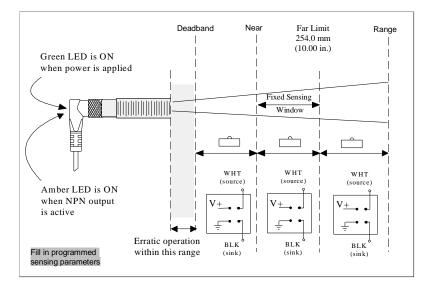


Figure 1

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.