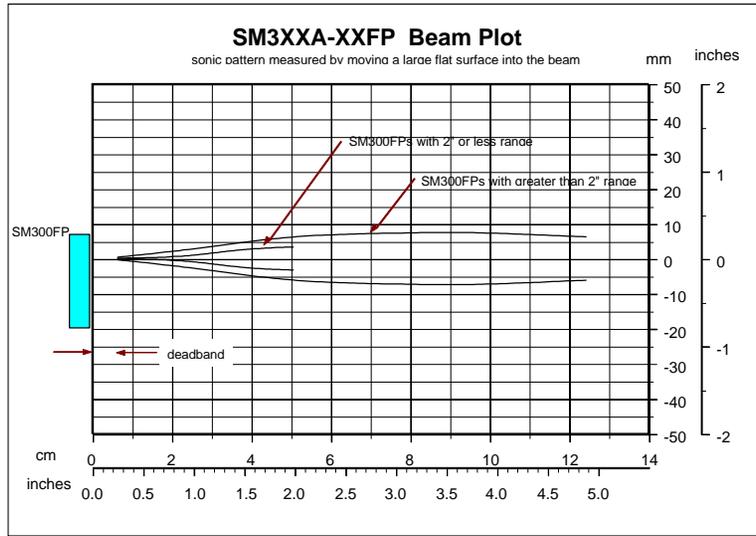


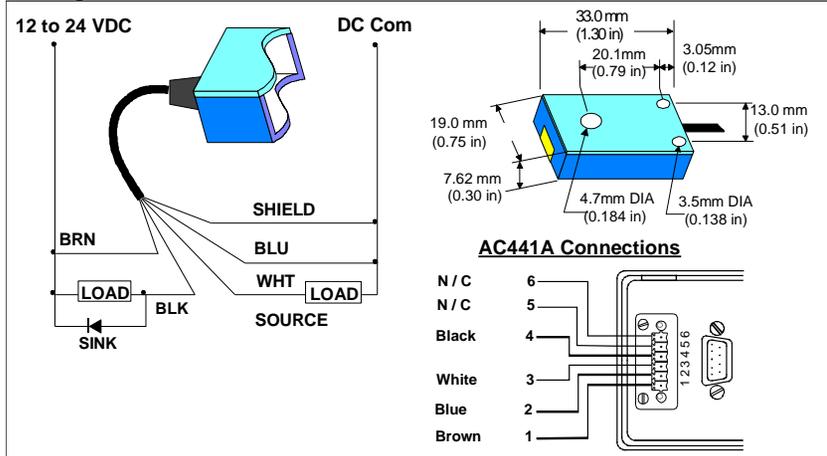
## Beam Plot



## Mounting / Alignment

Mount the sensor such that the surface of the object to be detected is approximately centered within the sensor's sensing field. Mount the sensor firmly to avoid vibration. The sensor face should be parallel to the liquid or material surface and free of air currents. For best results in sensing small objects, mount the sensor about 38.1 mm (1.50 in.) away from the object.

## Wiring Connections, Cable Model



## Indicator LEDs

Amber LED: ON when object is sensed.  
Green LED: ON when object is not sensed.

## Accessories

Model AC246

Mounting Bracket, Right Angle

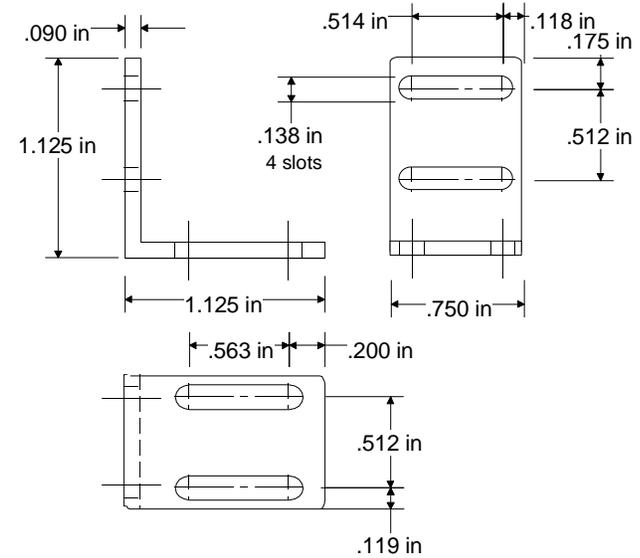
Model AC247

Conveyor-Rail Clamp/Bracket Set

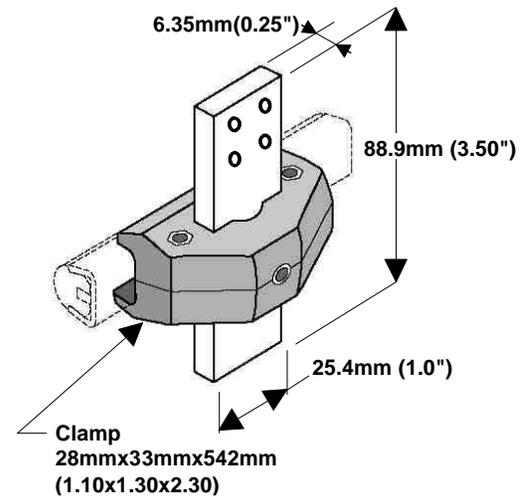
Model AC441A

Handheld Configurator & SUPERPROX+ S/W

## Mounting Bracket Dimensions



**AC246 - Right Angle Bracket**



**AC247 - Conveyor Rail Clamp / Bracket**

## General Specifications

### Power Supply:

Supply: +12 to 24 VDC ( $\pm 10\%$ ) @ 25 mA max. (excluding output load)  
 Protection: ESD and reverse-polarity

### Sinking Output:

Maximum on-state voltage drop: 0.75 V @ 100mA  
 Maximum load current: 100 mA  
 Maximum applied voltage: 30 VDC  
 Protection: ESD and over-current

### Sourcing Output:

Maximum on-state voltage drop: 1.10 V @ 100mA  
 Maximum load current: 100 mA  
 Maximum output voltage: Supply voltage - 1.10 volt @ 100mA  
 Protection: ESD and over-current

### Operating Temperature:

-30° C to 70° C (-22°F to 158°F) @ 12v supply  
 -30° C to 65° C (-22°F to 149°F) @ 24v supply

### Sensing: [T<sub>A</sub>=20°C (68°F)] -Large Flat Target

Range: 101.6 mm (4.00 in.)  
 Maximum plane-reflector angle:  $\pm 8^\circ$   
 Sonic Cone Angle: See beam plot  
 Window-edge accuracy:  $\pm 3.14$  mm (0.124 in.)  
 Minimum object size Rod: 2.5 mm (0.098in) at 38.1mm (1.5") range, 0° tilt  
 Large Flat Object: 1.0 mm (0.039in) at 38.1mm (1.5") range, 0° tilt

### Sensor Dimensions:

Mounting Hole Spacing: 13 mm (0.512 in.)  
 Mounting Hole Diameter: 3.51 mm (0.138 in.)

### Sensor Cable Length:

3 Meters (10 Ft.) Standard

### Sensor Materials:

Housing: PEI  
 Transducer face: Epoxy  
 Cable: Non-toxic PVC jacket  
 LED: 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 an 0.8A Max UL Listed Fuse

# SUPERPROX<sup>®</sup>

## SC300A-400LCFP

**HydePark**  
Sensors for the Real World



## Flat Profile Configurable Proximity Sensor

Maximum Far Limit Distance 101.6 mm (4.00 in.) from Sensor Face

Label attached to cable

## OPERATOR INSTRUCTIONS

This self-contained, miniature ultrasonic proximity sensor is capable of sensing most objects within its sensing field (Fig.1). Objects that are transparent, opaque, plastic, glass, metal, liquid or solid can be detected if located within the sensing field.

-Small objects are best sensed at a distance of 38.1 mm (1.50 in). Sensor is reconfigurable via the AC441A handheld configurator and SUPERPROX+ configuration software.

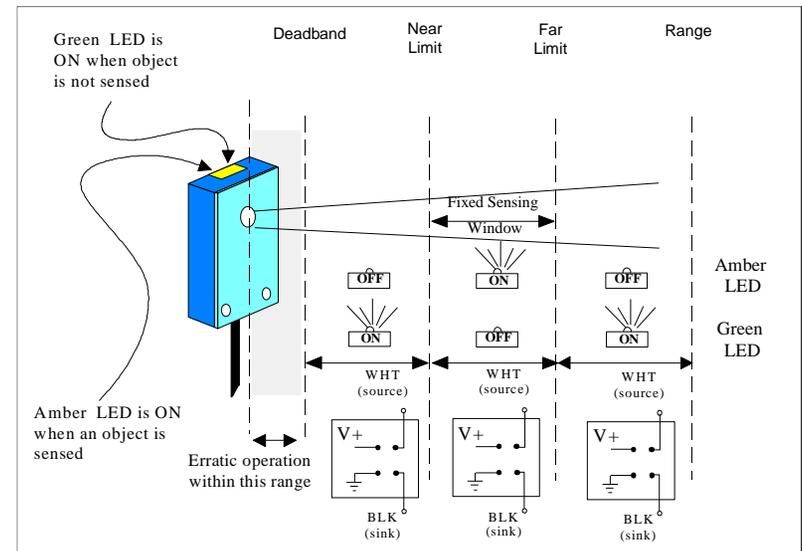


Figure 1

### LIMITATIONS AND EXCLUSION OF WARRANTIES

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## 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>

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