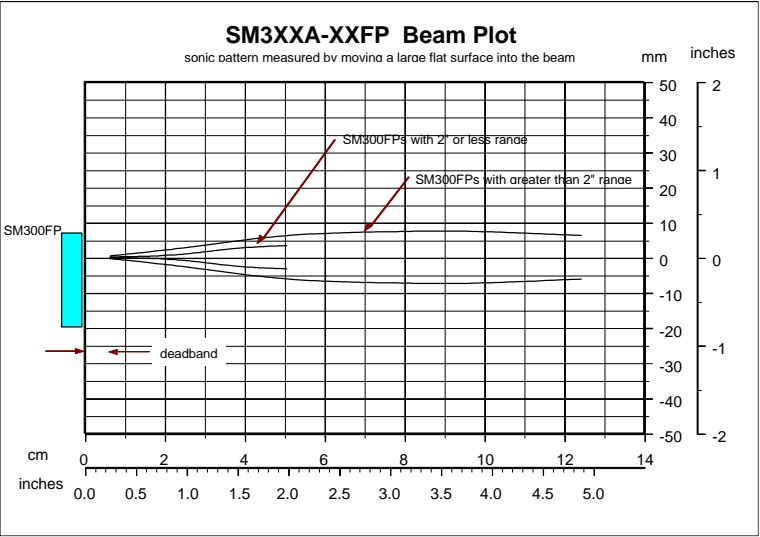


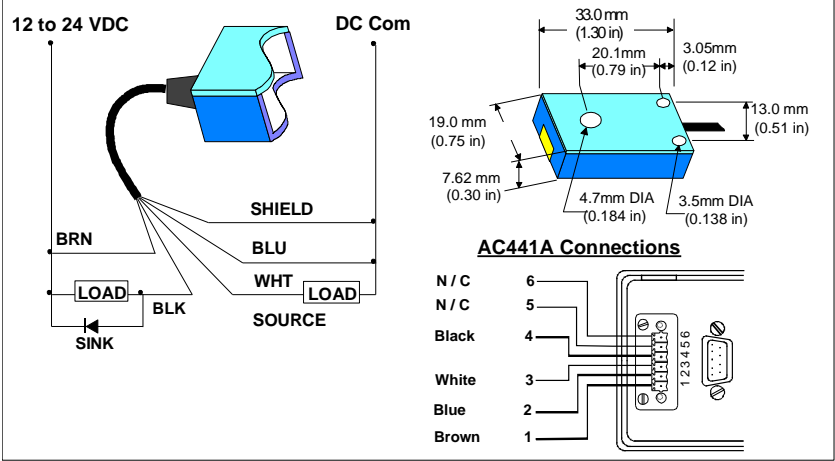
Beam Plot



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



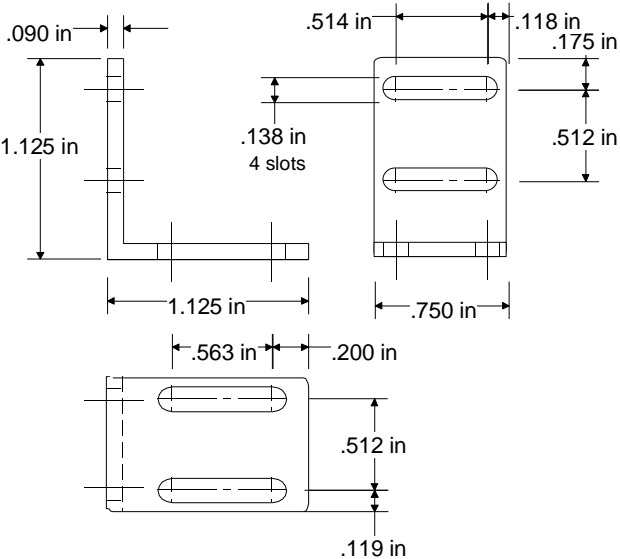
Indicator LEDs

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

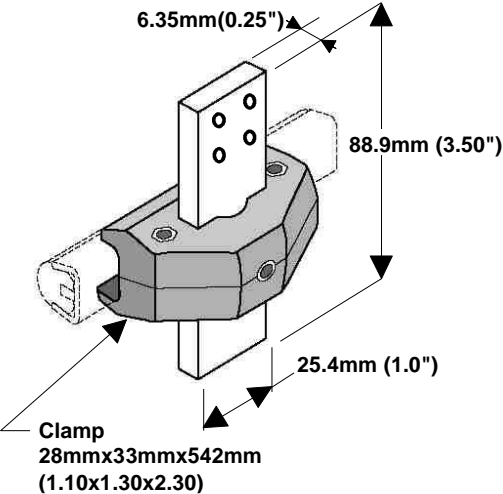
Accessories

- 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_A=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: ± 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: 33 x 19.1 x 7.6 mm (1.30 x 0.75 x 0.3 in.)
Mounting Hole Diameter: 13 mm (0.512 in.)
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:

Installation/Overvoltage Category: NEMA 4X (Indoor Use Only) 5, 12, 12K, 13, and IP67

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[®]

SC300A-400LCFP

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.

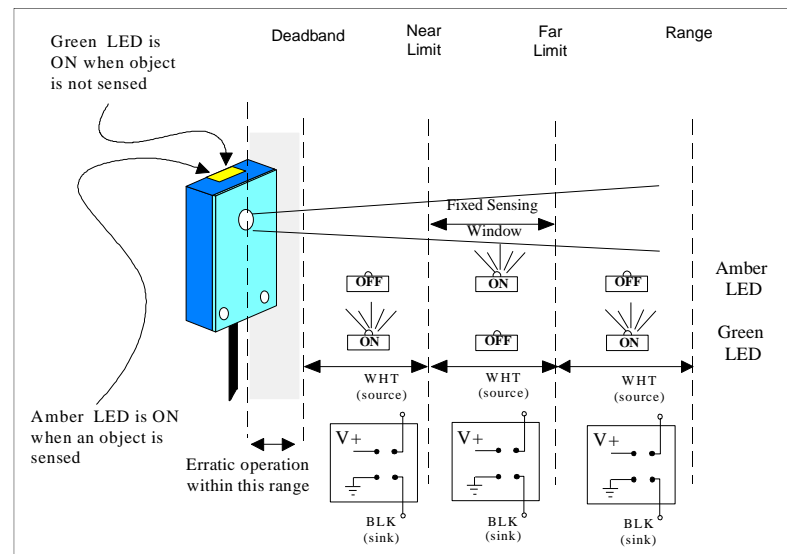


Figure 1

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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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