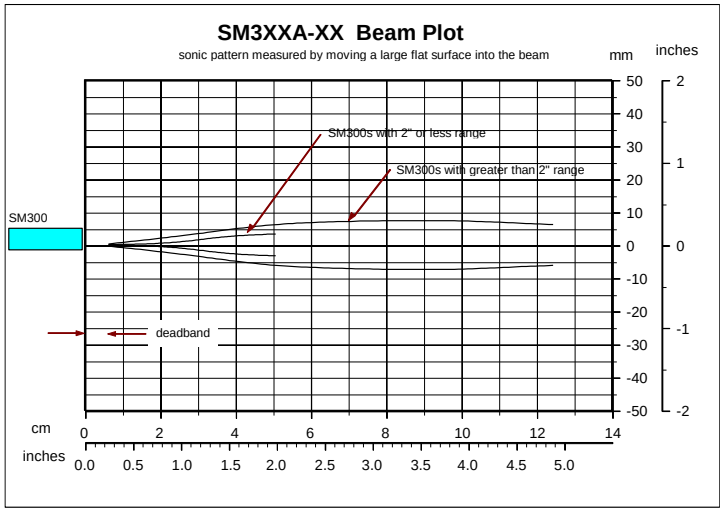
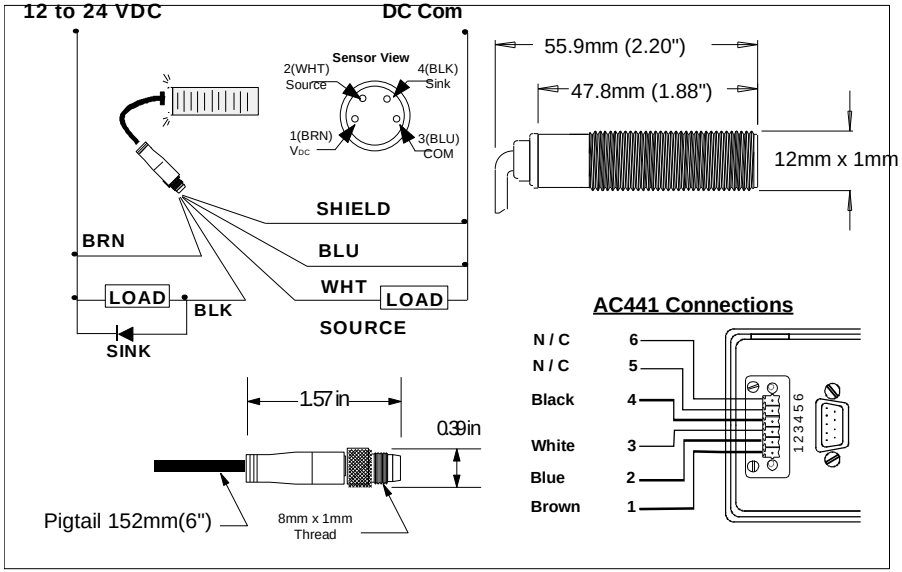
Beam Plot



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, for sensors of the appropriate sensing range mount the sensor about 38.1 mm (1.50 in.) away from the object.

Wiring Connections, Connector Model



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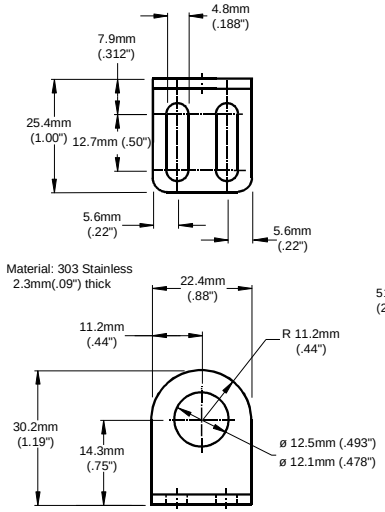
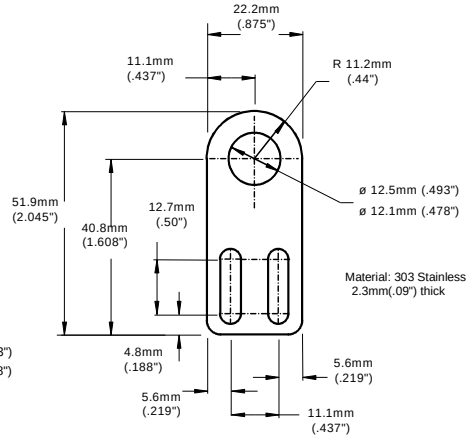
Accessories

Model	AC134	Connector cable, Right Angle, 4-conductor, 5 meters (16 feet)
Model	AC135	Connector cable, Straight, 4-conductor, 5 meters (16 feet)
Model	AC235	Mounting Bracket, Right Angle
Model	AC236	Conveyor Rail Clamp / Bracket Set
Model	AC237	Mounting Bracket, Flat
Model	AC242	18 mm to 12 mm Hex Mounting Adapter
Model	AC243	30 mm to 12 mm Hex Mounting Adapter

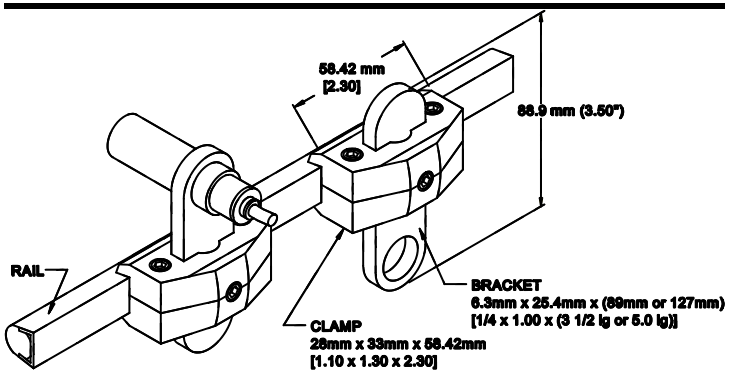
Mounting Bracket Dimensions



AC235 - Mounting Bracket, Right Angle



AC237 - Mounting Bracket, Flat



AC236 (1 CLAMP & 1 BRACKET)

General Specifications

Power Supply:

Supply:	+12 to 24 VDC (±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.)
Field:	0.0 to 101.6 mm (0.00 to 4.00 in.)
Maximum plane-reflector angle:	± 8°
Sonic Cone Angle:	See beam plot
Window-edge accuracy:	± 3.14 mm (0.124 in.)
Minimum object size Rod:	2.5 mm (0.098 in) at 38.1 mm (1.50") range, 0° tilt
Large Flat Object:	1.0 mm (0.039 in) at 38.1 mm (1.50") range, 0° tilt

Sensor Dimensions:

Threads:	12 mm x 1 mm
Length:	55.9 mm (2.20 in.)

Sensor Cable: 12 mm Micro Pigtail - 152 mm (6.0in.) length

(Must be purchased separately) AC130 Straight, 4-conductor, 5 meters (16 ft.)

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

HYDE PARK ELECTRONICS LLC

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Web Site: http://www.sesensors.com

SUPERPROX®

SC350A-400

Configurable Proximity Sensor

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

Sensors for the Real World

LISTED IND. CONT. EQ. 3KYC SUPPLY CLASS 2 FUSE .8A UL LISTED

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.

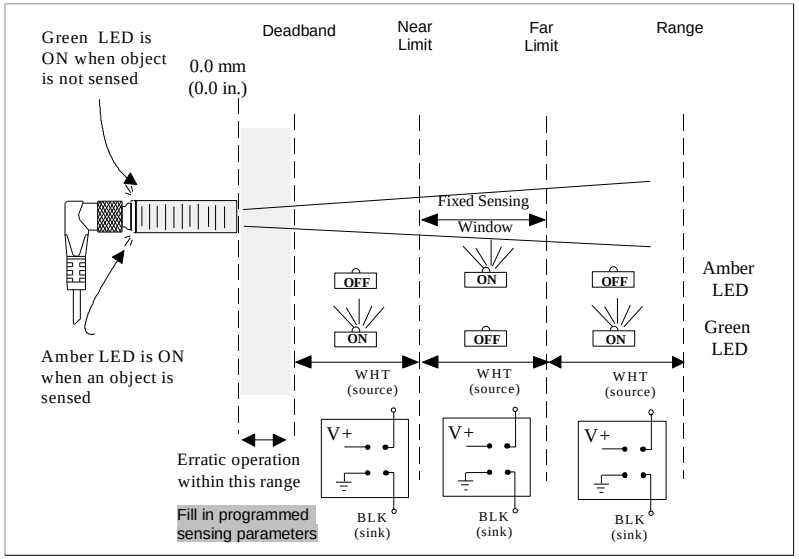

Figure 1

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.