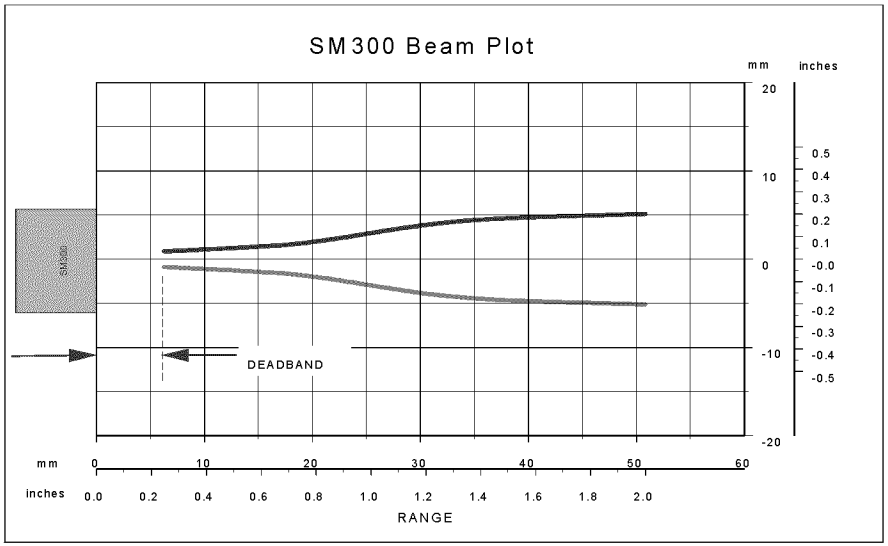
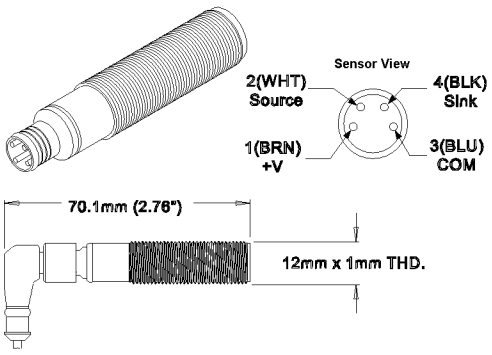
Beam Plot

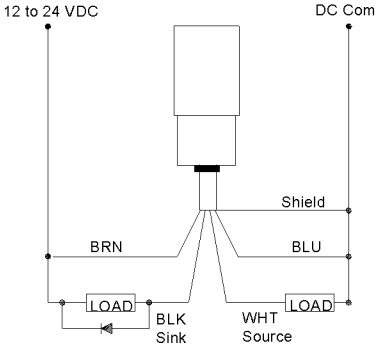


Mounting / Alignment

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 with a Far Limit more than 38.1 mm (1.50 in.), mount the sensor about 38.1 mm (1.50 in.) away from the object.

Wiring Connections, Connector Model





Note: The AC138 Adapter reverses the sinking and sourcing outputs of the sensor.

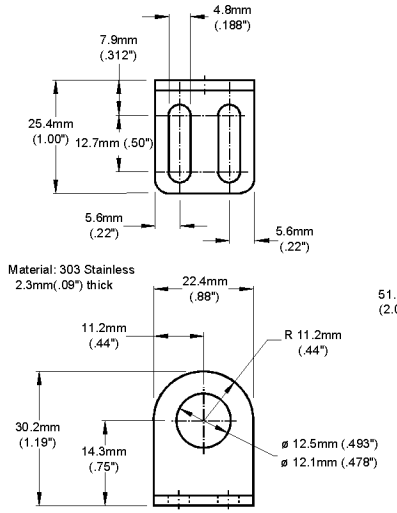
Indicator LED's

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

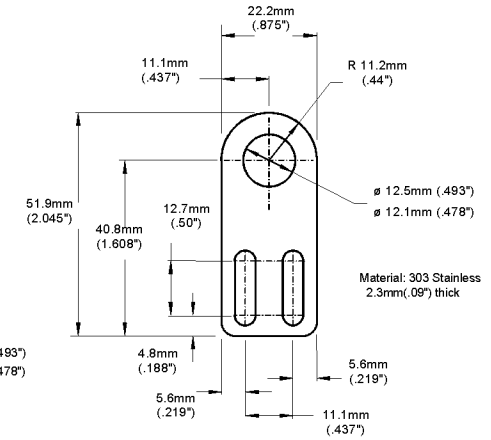
Accessories

Model	AC134	Sensor Cable Right Angle - 5 meters (16 ft.)
Model	AC135	Sensor Cable Straight - 5 meters (16 ft.)
Model	AC137	Pico-to-Micro Pigtail Cable Adapter - 0.2 meters (7.9 in.)
Model	AC138	Pico-to-Micro Pigtail Cable Adapter output pins reversed
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

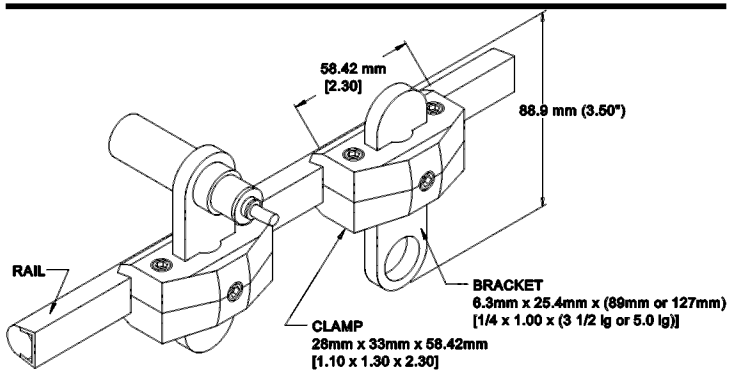
Mounting Bracket Dimensions



AC235 - Mounting Bracket, Right Angle



AC237 - Mounting Bracket, Flat



AC236 (1 CLAMP & 1 BRACKET)

General Specifications

Power Supply:	
Supply:	+12 to 24 VDC @ 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 - 0.95 volt @ 100mA
Protection:	ESD and over-current
Response Time:	2 mS on / 2 mS off
Operating Temperature:	-20°C to 65°C (-4°F to 149°F)
Sensing: [T_A=20°C (68°F)] Large Flat Target	
Range:	50.8 mm (2.00 in.)
Field:	6.4 to 50.8 mm (0.25 to 2.00 in.)
Maximum plane-reflector angle:	± 10°
Sonic Cone Angle:	See beam plot
Window-edge accuracy:	± 1.57 mm (0.062 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:	70.1 mm (2.76 in.)
Sensor Cable:	AC134 Right angle, 4-conductor, 5 meters (16 ft.)
(Must be purchased separately)	AC135 Straight, 4-conductor, 5 meters (16 ft.)
Sensor Materials:	
Housing:	PEI
Transducer face:	Epoxy
Cable:	Non-toxic PVC jacket
LED ring:	Polycarbonate
Sensor Ratings and Approvals:	NEMA 4X (Indoor Use Only) 5, 12, 12K, 13, and IP67
Installation/Overvoltage Category:	II
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 an 0.8A Max UL Listed Fuse

HYDE PARK ELECTRONICS LLC

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Email: help@sesensors.com
Web Site: http://www.sesensors.com

SUPERPROX®

SM350A-228-00

Proximity Sensor, 12 mm Diameter, Ultrasonic

Normally Open Outputs

Sensing Field 50.8 mm (2.00 in.) from Sensor Face

HydePark Sensors for the Real World

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

OPERATOR INSTRUCTIONS

This Hyde Park self-contained, ultrasonic, proximity sensor is capable of sensing most objects within a 50.8 mm (2.00 in.) sensing field (Fig.1). Objects that are transparent, opaque, plastic, glass, metal, liquid or solid can be detected if located within the sensing field.

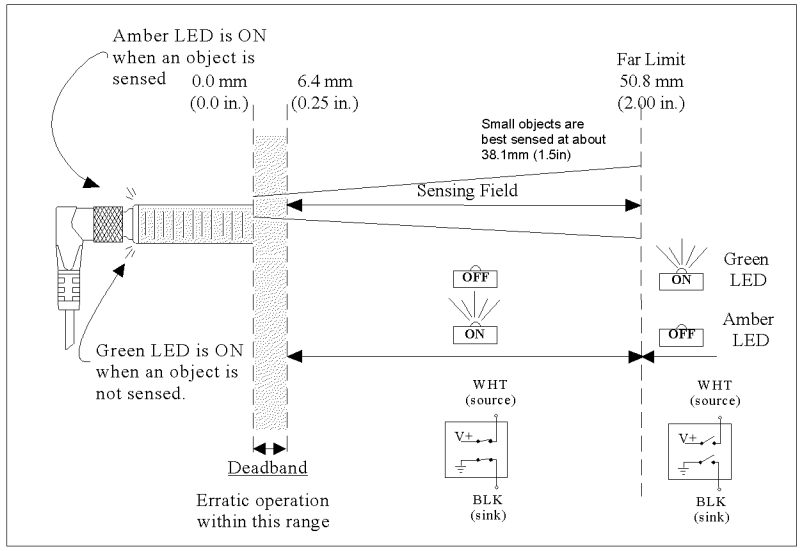

Figure 1

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.

⚠WARNING

UNINTENDED OPERATION

Do not use this product to detect objects within the deadband.

Failure to follow this instruction can result in death, serious injury or equipment damage.