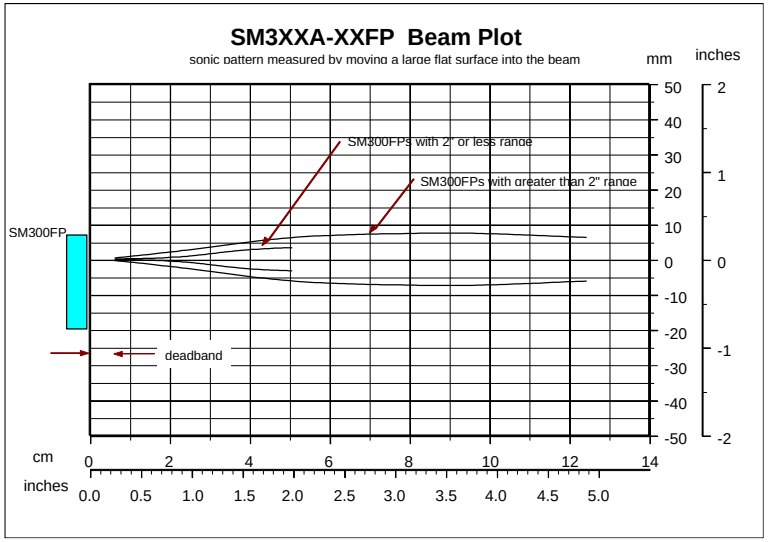
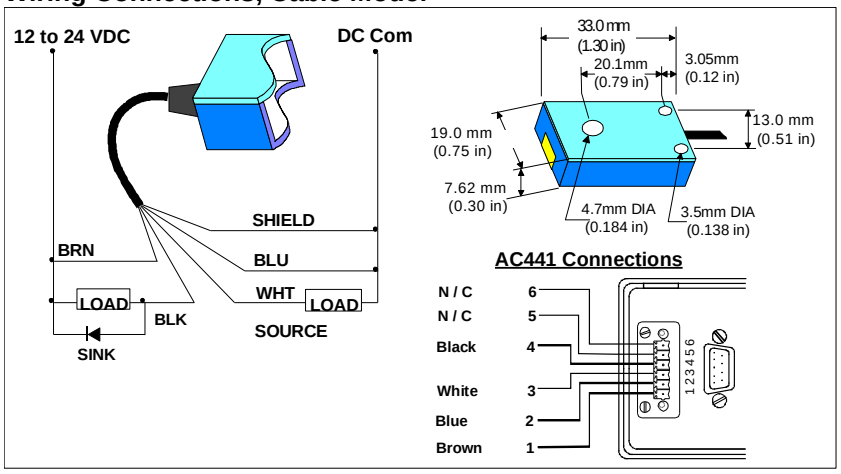
Beam Plot



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, Cable Model



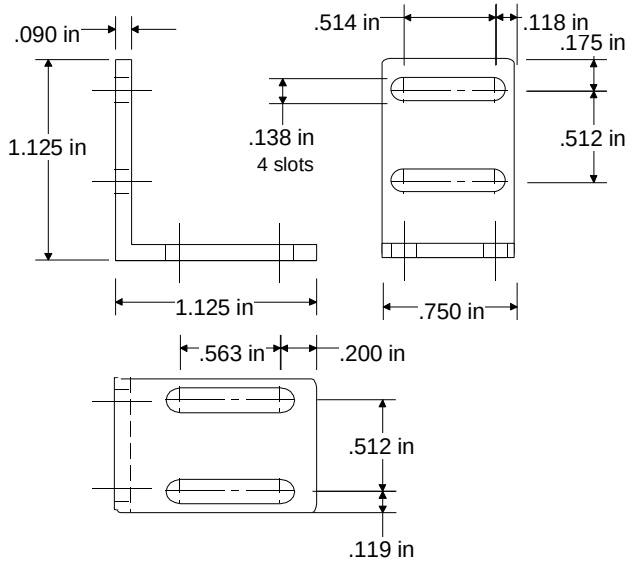
Indicator LED's

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

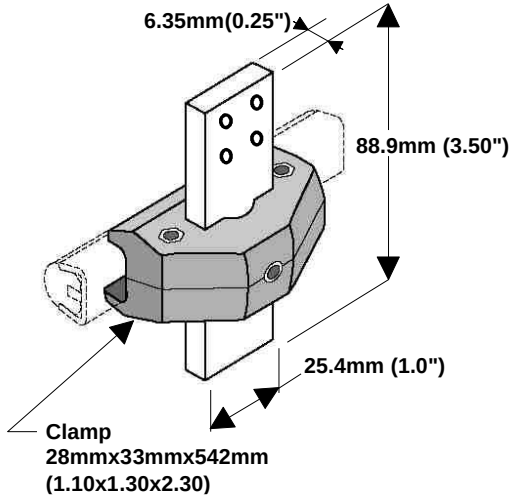
Accessories

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 (±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:	127.0 mm (5.00 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:	33 x 19.1 x 7.6 mm (1.30 x 0.75 x 0.3 in.)
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 5, 12, 12K, 13, and IP67
Installation/Overvoltage Category:	II
CE Mark Compliant:	Declaration of conformity available upon request.

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SUPERPROX®

SC300A-500FP

Flat Profile Configurable Proximity Sensor

Maximum Far Limit Distance 127.0 mm (5.00 in.) from Sensor Face

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. Sensor is reconfigurable via the AC441A handheld configurator and SUPERPROX+ configuration software.

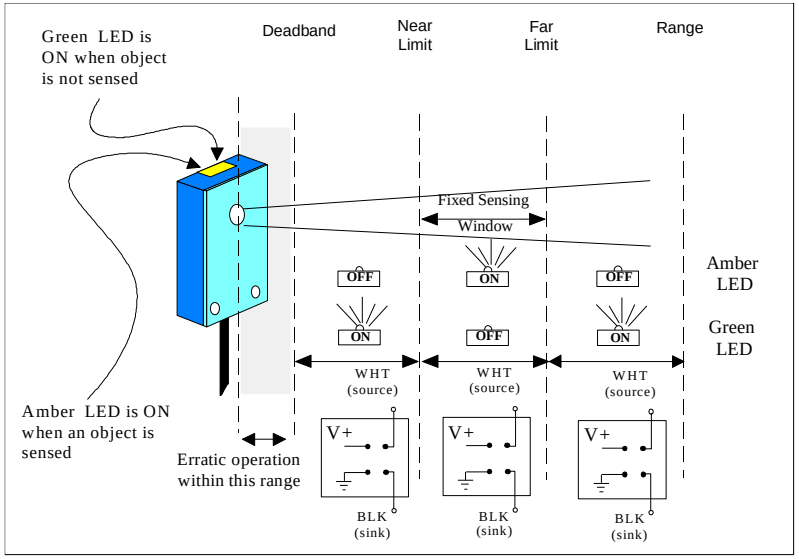

Figure 1

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.