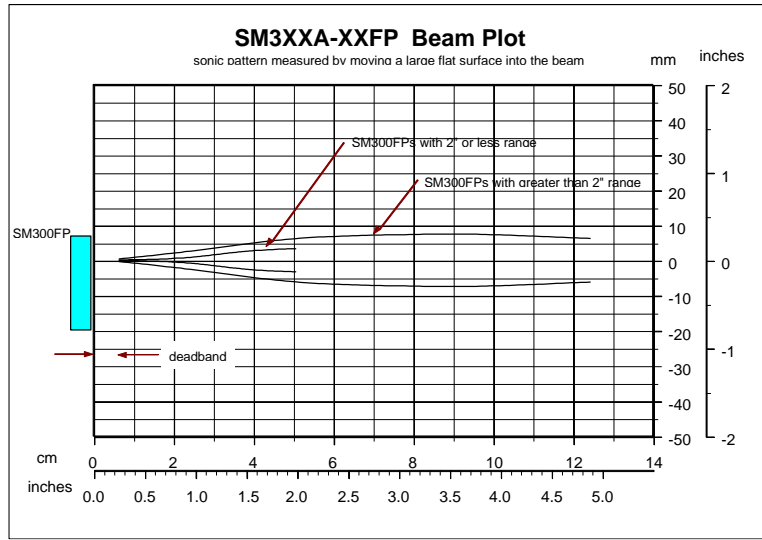


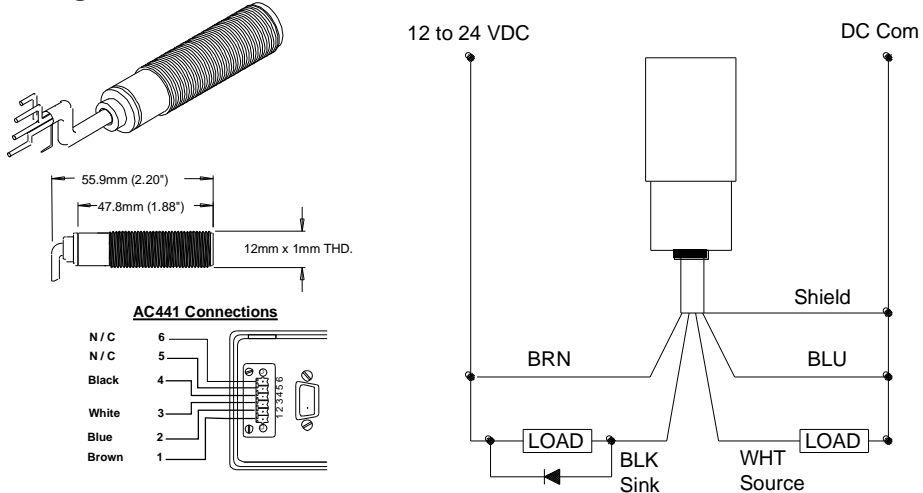
Beam Plot



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 LEDs

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

Accessories

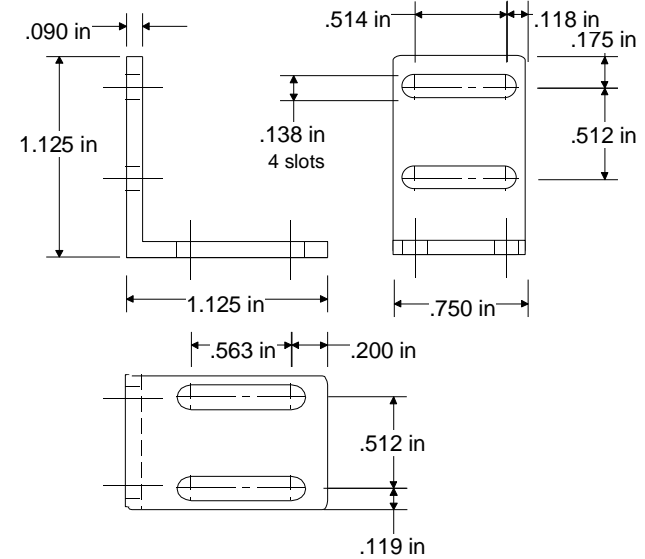
Model AC246

Mounting Bracket, Right Angle

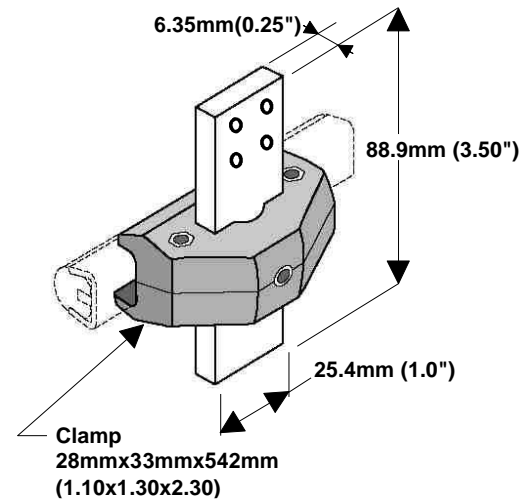
Model AC247

Conveyor Rail Clamp/Bracket Set

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.)
 Field: 0.0 to 101.6 mm (0.00 to 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 (0.098 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
 AC130 Straight, 4-conductor, 5 meters (16 ft.)

(Must be purchased separately)

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[®]

SC300A-400

Flat Profile Configurable Proximity Sensor

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



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. Small objects are best sensed at a distance of 38.1 mm (1.50 in).

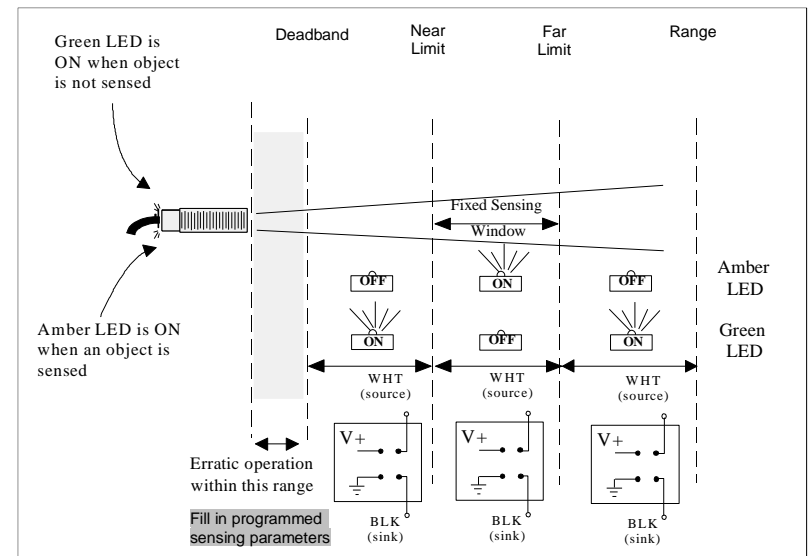


Figure 1

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.

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