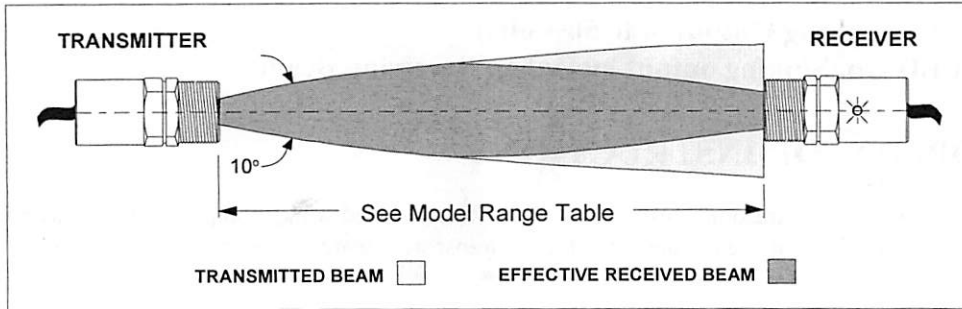
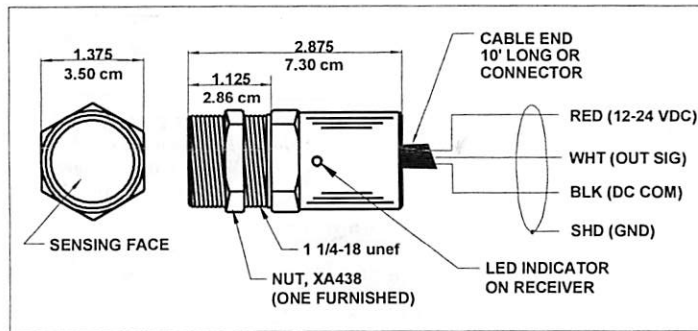


Mounting / Alignment

Mount the sensor so that both transmitter and receiver are aligned opposite each other. The receiver's LED must be on when no object is blocking the sonic energy from the transmitter.



Receiver Dimensions, Wiring Connections

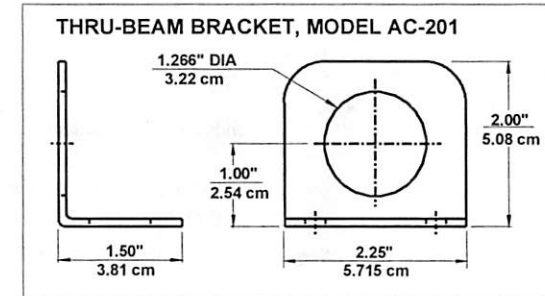


Accessories

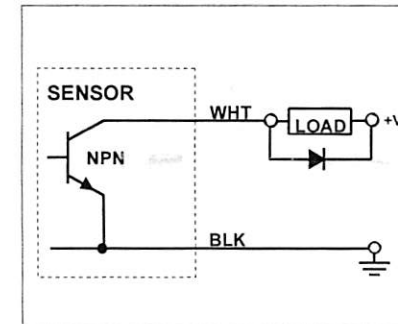
Model AC201

Thru-Beam Bracket

Mounting Bracket Dimensions



NPN Sinking Output



Other models available for either thru-beam or break-beam sensing considerations.

MICROSONIC® continuous-wave/thru-beam sensors
 Model SM100 series (including the model in these instructions)
 Model SM100 CE-certified series
 Model SM800 CE-certified, 18 mm barrel or flat-profile

SUPERPROX® pulse-echo/reflective break-beam sensors
 Model SM500 CE-certified, proximity with no delay (background mode)
 Model SM503 CE-certified, proximity with delay (background mode)

See catalog for specifications or contact your Distributor or Hyde Park.

General Specifications

Power Supply:	
Supply Voltage:	+12 to 24 VDC
Receiver Current:	30 mA maximum (For Receiver only)
Power Dissipation:	1.2 watts maximum (excluding load)
NPN Sinking Output:	
Maximum on-state voltage drop @ 100mA:	0.2 Volts
Maximum load current:	100 mA
Maximum Applied Voltage:	50 VDC
Response Time:	4 milliseconds on / 4 milliseconds off
Temperature:	
Operating Temperature:	0°C to 60°C (32°F to 140°F), @ 100% relative humidity
Storage Temperature:	-10°C to 80°C (14°F to 176°F)
Sensing Range:	See model range table in operation figure
Dimensions:	
Threads:	1 1/4 in. x 18 unef
Length:	73.00 mm (2.875 in.)
Cable:	2.5 Meters (10 ft.) Standard
Materials:	
Housing:	Stainless Steel
Transducer face:	RTV
LEDs:	Polycarbonate
Cable:	Non-toxic PVC jacket
Environmental Ratings:	NEMA 4x IP67

LIMITATIONS AND EXCLUSION OF WARRANTIES

All goods purchased from Hyde Park Electronics LLC shall be free from defects in materials, design and workmanship under normal conditions of use for one year from the date of shipment. THIS WARRANTY IS THE SOLE WARRANTY AND IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF HYDE PARK TO ANY PURCHASER SHALL BE LIMITED EXCLUSIVELY TO THE COST OF REPLACEMENT OR REPAIR OF DEFECTIVE PARTS, AND SHALL NOT INCLUDE LIABILITY FOR ANY DIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES WHATSOEVER, WHETHER FORESEEN OR UNFORESEEN, INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOST SALES, OR INJURY TO PERSONS OR PROPERTY.

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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MICROSONIC®

Hyde Park
Sensors for the Real World

SM187

Thru-beam Receiver

Cable Style

NPN Sinking Output (0 to 50 Volts)

LED On, Sinking output low when Receiving Beam

OPERATOR INSTRUCTIONS

This Hyde Park ultrasonic, thru-beam receiver, when paired with a compatible transmitter is capable of sensing nearly any object, even transparent materials such as glass, plastic, and clear film.

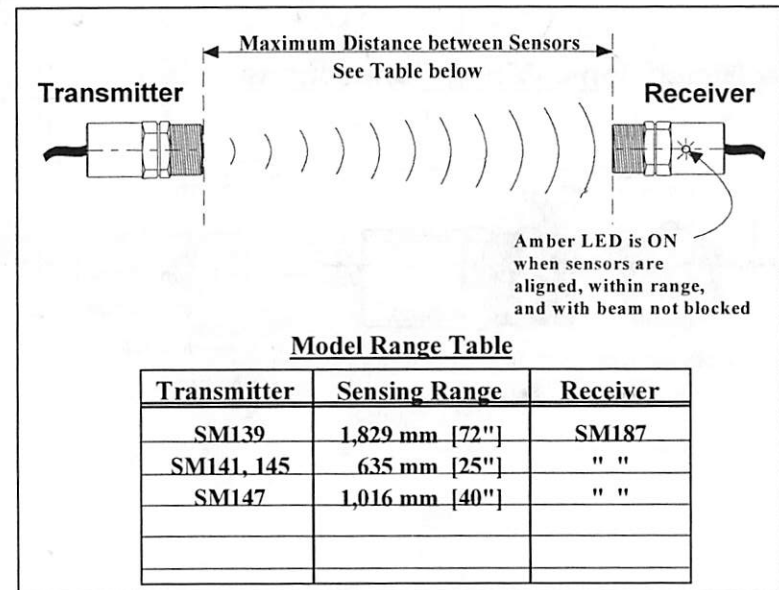


Figure 1.

Indicator LEDs

LED is on when beam is detected from transmitter.

Literature and application engineering assistance is 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.