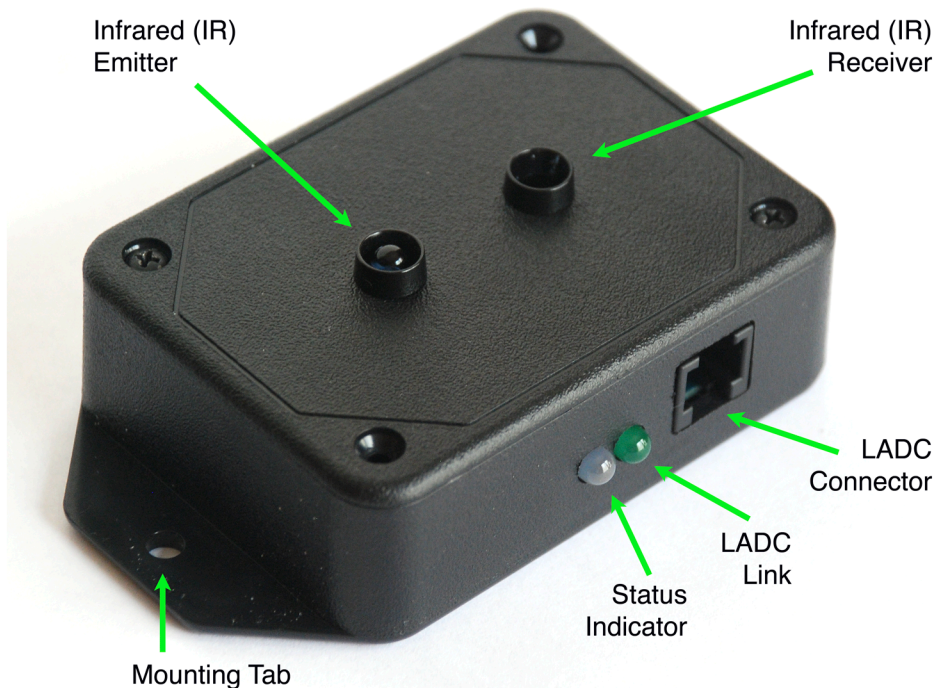


MANTIS Active Infrared Beam Bounce Sensor

Model MS-301X



INFRARED EMITTER - Sends out encoded infrared signal that bounces back to the sensor to indicate the presence of a person or an object.

INFRARED RECIEVER - Receives the signal generated by the IR emitter to detect a person or object. When the receiver detects sufficient signal, the sensor is triggered.

MOUNTING TAB - Used to mount the sensor to the prop, wall, etc.

STATUS INDICATOR - Alternates between green and yellow at powerup to inciate processor is operating properly. Thereafter, green indicates armed and ready to detect. Yellow indicates a person or object has been detected and the sensor has been triggered.

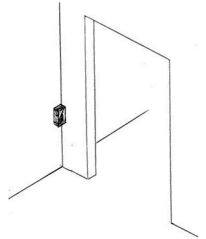
LADC LINK - When MANTIS sensors are connected to MANTIS controllers via a Lights Alive Direct Connect cable, the link light confirms they are properly connected and communicating with each other. This feature is not available when using other brand controllers.

LADC CONNECTOR - This six-conductor modular connecton supplies power to the sensor, trigger circuit to the controller and link light signal.

DESCRIPTION - The MANTIS Infrared Beam Break sensor differs from traditional infrared sensors because it is an active device. By emitting it's own encoded infrared signal, annoying false triggers normally associated with traditional passive infrared (PIR) sensors are virtually eliminated.

PLACEMENT - The MS-301X is ideal for replacing pressure mats to trigger props or events upon approach. Depending on surroundings, triggering typically occurs at about six feet from the sensor.

The MS-301X is also perfect for use as a door or hall monitor. It is best placed flat against a wall that is perpendicular to the door opening. Any opposing objects or walls should be a minimum of six feet and sometimes more, depending on the surface, in order to prevent reflected signals from tripping the sensor. If this is not practical, such as in a hallway, simply angle the sensor so the infrared signal is not reflacted directly back to the sensor. Once properly placed, false triggers will be virtually nonexistent.



CONNECTION - To connect to any MANTIS controller, simply insert one end of the included LADC cable in the LADC connector of the sensor and the other end in the LADC connector on the controller. Click-click-done! Its that easy. For use with non-MANTIS brand controllers, we recommend using the MANTIS Universal Adapter.

SPECIFICATIONS

RANGE - Typically six (6) feet, depending on surroundings.

POWER REQUIREMENT - 12-14VDC, 50mA

TRIGGER CIRCUIT - Dry contact (relay) rated 1A @ 12VDC

BEAM TYPE - Active near-infrared (IR-A band)

ENCODING - 35 kHz carrier modulated at 250 Hz

SIZE - 3.29" long (4.375" w/mounting tab) x 2.42" wide x 1.25" high

WEIGHT - 2.9 oz

OPERATIONAL TIPS

- Never point directly at fluorescent lights or the sun.
- Range is affected by supply voltage. Always insure 12-14VDC is used.
- Never point directly at a wall or other objects closer than 6' to 8', depending on surface.
- Never expose to rain or snow without adequate protection. This unit is not weatherproof.
- Always use Lights Alive brand LADC cables and adapters.

DISCLAIMER

For entertainment purposes only. Not to be used in critical applications where injury or damage may occur. User assumes all responsibilities and liability.