



## MANTIS IR Transmitter/Receiver Beam Interrupt Pair

### OVERVIEW

With a minimum range of 25 feet (up to 40 feet under optimum conditions), The two-piece MANTIS IR Beam Break sensor is the ideal solution when reliable long range sensing is needed. Due to the pulse-modulated narrow beam, there is virtually no possibility of false triggers. The very narrow beam must be broken (blocked) for the sensor to trigger.

The receiver connects to any MANTIS controller via the included LADC cable or it can be connected to other brand controllers via a MANTIS adapter. A DC adapter to power the transmitter is included.

As is standard with all MANTIS sensors and triggers, tripping the MANTIS IR Beam Break Sensor results in a switch (relay) closure. This device is manufactured in the United States by Lights Alive and is covered by an unprecedented five-year limited warranty.

Includes MANTIS IR Transmitter, MANTIS IR Receiver, 15' LADC cable and power supply for transmitter.

### OPERATION

Simply connect the IR Transmitter to an ordinary 120 volt AC outlet using the included wall mount DC power supply and point it toward the IR Receiver. The green STATUS light should blink, showing that the transmitter's microprocessor is operating properly. Remember, infrared signals will bounce from walls or other objects, so be sure that you have allowed several feet between the transmitter and receiver for reliable operation.

Next, connect the receiver to your favorite MANTIS controller with the included LADC cable. No special configuration or wiring is necessary when using MANTIS sensors with MANTIS controllers. Click-click-done... Its that easy! Point the receiver toward the transmitter, while trying to avoid directly pointing it at IR sources, such as fluorescent lamps or the sun. The green LADC light should be on, indicating that the sensor and controller are connected. Once the receiver "sees" the transmitter, the receiver's STATUS light will be green. If the receiver does not detect the transmitter or if the system has been triggered, the STATUS light will be yellow.

If connecting the receiver to a 3<sup>rd</sup> party controller, you will need a MANTIS Universal Adapter. Follow the instructions provided with the adapter to provide power and to connect the trigger circuit. The LADC indicator will not light with 3<sup>rd</sup> party controllers as this is an exclusive MANTIS feature

### BASIC SPECIFICATIONS

- Range: 25+ feet, depending on surroundings
- Sensor type: Active infrared beam break
- Technology: Encoded IR signals to prevent false triggers
- Transmitter power: 10-14vdc, 100mA
- Receiver power: 10-14vdc, 100mA
- Receiver trigger circuit: Low voltage switch closure

NOTE: These devices should be shielded from direct weather such as rain or snow or sun.