



INFRARED DOOR SENSOR

The IR-3 is an infrared sensor system designed to be used in conjunction with Ivie's programmable *iFlex*, 1026, and 884+ matrix mixers, but will work with any equipment that has logic capable of responding to a contact closure.

The IR-3 provides a logical signal to the mixer indicating whether a door is open or closed. A mixer can be programmed to reconfigure the sound system based on which doors are open, combining rooms, changing levels,

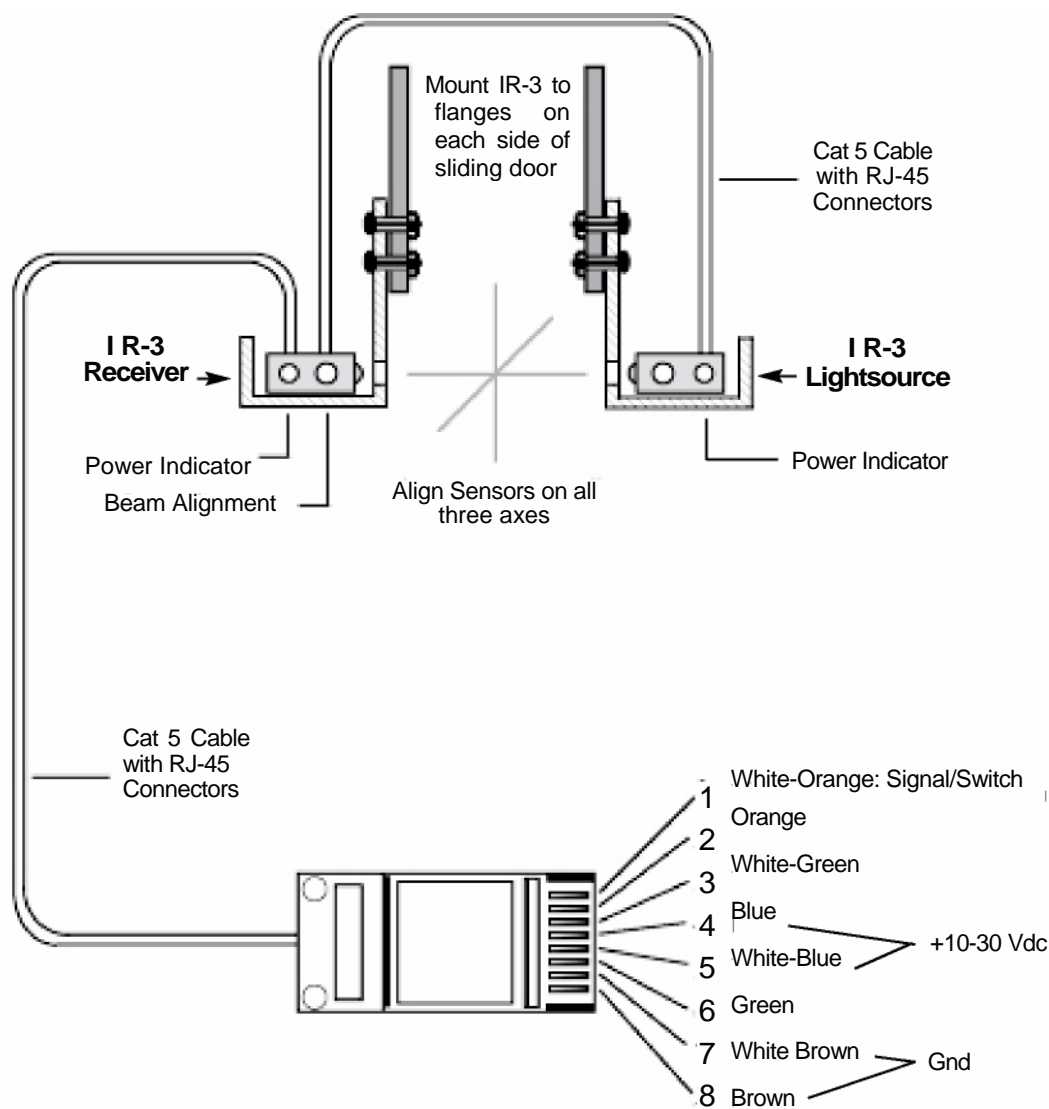
mix parameters, routing signals, EQ, and other DSP parameters to meet the need of the desired configuration for that state.

The IR-3 is comprised of two pieces, a Lightsource and a Receiver. The two units appear identical, with the exception that the Receiver has two RJ-45 connectors and the Lightsource has only one.

The Lightsource/Receiver combination is designed for easy installation with the inclusion of a beam alignment indicator

on the Receiver unit. When the Receiver is illuminated by the infrared Lightsource, the red beam alignment LED will light, indicating proper alignment. Special circuitry is employed to assure that the Receiver will respond only to infrared light from the Lightsource.

RJ-45 connectors are used on the Lightsource and Receiver brackets. The IR-3 is a Smart Contol© designed for use with Ivie Technologies *iFlex* mixers and is compatible with previous models.



IR-3

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Installation Instructions

Method of Operation: The IR-3 employs an open collector switch to ground, capable of sinking approx. 100 mA.

Physical Installation: Mount the Lightsource and Receiver on either side of the sliding door track, directly across from each other. The Lightsource and Receiver need to be aligned on all three axes (x, y, z).

Testing Alignment: For convenience, a 9 volt battery can be temporarily connected to the units to check alignment. If this temporary test and alignment setup is desired see the pin out wiring diagram on this sheet to see where the 9 V should be connected. With the units powered by the 9 V battery or by the mixer, physically align the two units.

If the units are properly aligned, the red beam alignment LED will light. If the beam alignment indicator is not lit, then move one unit or the other (Lightsource or Receiver) until they are properly aligned, as indicated by the beam alignment LED. When alignment and testing are complete, remove the battery and setup harness.

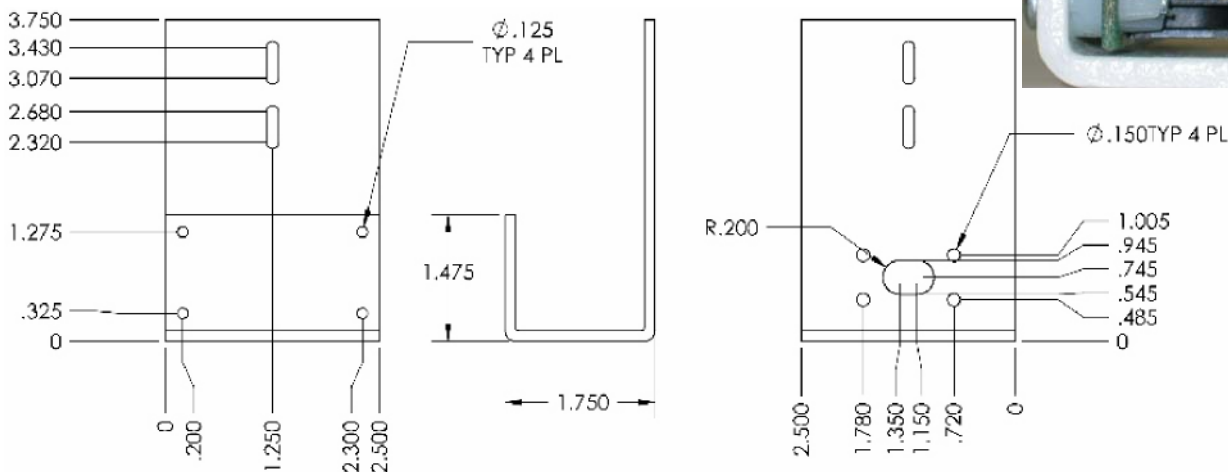
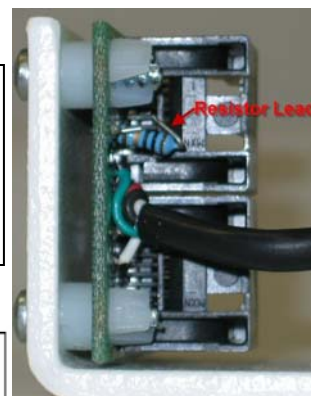
Electrical Installation: A standard CAT-5 cable coming from a 1026 IF, an 884 IF or an iFlex is connected directly by an RJ-45 connector to either of the two connectors on the Receiver. A shorter Cat-5 cable is run from the other RJ-45 jack on the Receiver to the RJ-45 jack on the Lightsource.

Specifications

Supply Voltage: 10 to 30 Vdc

CORRECTED VERSION 20 May 2009

The IR-3 is a Smart Control© when used with iFlex mixers. When used with a 1026 or 884+ mixer (or other non-iFlex device), the resistor lead shown to the right should remain intact. **ONLY when used with an iFlex device, the resistor lead should be clipped.**



Note: When connecting the IR-3 to a mixer or some other hardware, if the relay or logic supply is >5V, then you must cut the option resistor and connect to Pin #2 (instead of Pin #1) for switch/sensing output!



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