



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

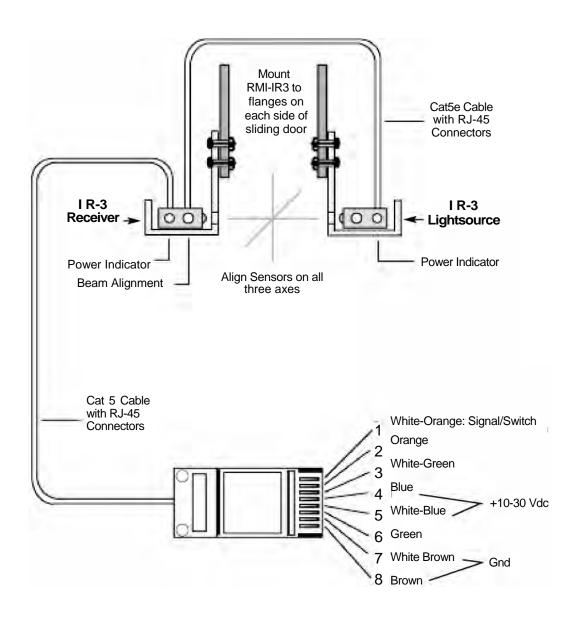
The RMI-IR3 provides a logical signal to the mixer indicating whether a door is open or closed. A mixer can be programmed to reconfigure the sound system based on which doors are open, combining rooms, changing levels, mix parameters, routing signals, EQ, and other DSP parameters to meet the need of the desired configuration for that state.

The RMI-IR3 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 RMI-IR3 is a Smart Contol© designed for use with Ivie Technologies *iFlex* mixers and is compatible with previous models such as the 884 and 1026 series..



RMI-IR3 INFRARED DOOR SENSOR

Installation Instructions

Method of Operation: The RMI-IR3 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 page 1 of 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 Cat5e (or better) 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 Cat5e cable is run from the other RJ-45 jack on the Receiver to the RJ-45 jack on the Lightsource.

