Infrared Transmitter & Receiver

Introduction

The infrared transmitter & receiver are designed to sense the presence or absence of partitions such that lighting functions change to accommodate the appropriate size space.

Disassembling the infrared transmitter & receiver

Squeeze the sides of the infrared transmitter or receiver cover then pull off the cover to expose the sensor.

Fixing to a wall box

The Infrared Transmitter/Receiver is intended to fit into a U.S. single gang wall box with a minimum internal depth of 3.5 in. (89 mm). The wall box is to be mounted face down recessed in the ceiling (see diagram).

Wall Boxes should be mounted in line with each other as well as the partition, when closed, separates the transmitter and receiver to ensure proper operation.

Wall Boxes should be no more than 8 ft. (2.4 m) apart.
Control Wiring

The IRTR infrared transmit/receiver devices can be used in conjunction with a UIG-2-NA for partitioning and room join control. The UIG-2-NA is capable of supporting up to four pairs of IRTR devices in a partitioning application. When used in a partitioning application, one UIG-2-NA can support up to four different zones. Each zone can contain up to 3 partitions (4 consecutive rooms). For partitioning needs beyond four consecutive rooms, please contact the factory to discuss the custom application.

An EXPS-15V power supply will be necessary to power the IRTR devices. Up to four pairs of IRTR devices may be powered from one EXPS-15V. Cabling should consist of 18AWG twisted, stranded wire. 18-3 should be used for the IRTR device connections to the UIG-2-NA. 18-2 can be used for the EXPS-15V low-voltage wiring. Maximum wiring distance should not exceed 32 feet (10m) between the IRTR and the UIG-2-NA.

Connecting up to 4 IRTR devices to the UIG-2-NA

The IRTR devices require an external power supply. It is recommended for best performance that the external power supply be wired into the isolated power on the Digital Input side of the device with all four pairs of IRTR devices coming into the Digital Input terminals. In this configuration, a single EXPS-15V can be used to power all four pairs of devices. Because the devices are powered directly by the EXPS-15V, they do not count as a device to be powered on the iLumin network. Note: Distance between IRTR and UIG-2-NA not to exceed 32 feet (10m).
Verification of alignment and functionality

**Note:** The moveable partition must be open. Direct line of sight between the transmitter and receiver must be available. The unit must be powered.

**Correct Alignment LED Operation**
*(Receiver Set for Normally Open (D) Operation)*

- **Partition Open**
- **Partition Closed**

**Incorrect Alignment LED Operation**
*(Receiver Set for Normally Open (D) Operation)*

- **Partition Open**
- **Partition Open**

Reassembling the Wallstation

1. Install the wallplate on the transmitter and receiver units.
2. Squeeze the sides of the infrared transmitter or receiver cover then place the cover over the sensor and snap into place.

WARRANTIES AND LIMITATION OF LIABILITY

Please refer to www.eaton.com/lightingsystems under the Legal section for our terms and conditions.