

## Infrared Transmitter & Receiver

### **WARNING**



**Risk of Fire, Electrical Shock, Cuts or other Casualty Hazards-** Installation and maintenance of this product must be performed by a qualified electrician. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and hazards involved.



Before installing or performing any service, the power **MUST** be turned OFF at the branch circuit breaker. According to NEC 240-83(d), if the branch is used as the main switch for a fluorescent lighting circuit, the circuit breaker should be marked with "SWD". All installations should be in compliance with the National Electric Code and all state and local codes.



**Risk of Fire and Electric Shock-** Make certain power is OFF before starting installation or attempting any maintenance. Disconnect power at fuse or circuit breaker.



**Risk of Burn-** Disconnect power and allow fixture to cool before handling or servicing.



**Risk of Personal Injury-** Due to sharp edges, handle with care.

Failure to comply with these instructions may result in serious injury (including death) and property damage.

**DISCLAIMER OF LIABILITY:** Cooper Lighting Solutions assumes no liability for damages or losses of any kind that may arise from the improper, careless, or negligent installation, handling or use of this product.

**IMPORTANT:** Read carefully before installing product. Retain for future reference.

**NOTICE:** Product may become damaged and/or unstable if not installed properly.

**Note:** Specifications and dimensions subject to change without notice.

**ATTENTION Receiving Department:** Note actual product description of any shortage or noticeable damage on delivery receipt. File claim for common carrier (LTL) directly with carrier. Claims for concealed damage must be filed within 15 days of delivery. All damaged material, complete with original packing must be retained.

**NOTICE:** If a room is wired for two circuits using two separate hot leads, it is very important to connect only one circuit per relay. Both circuits must be fed from the same phase.

**NOTICE:** Ensure that all modules are firmly seated on the DIN rails before beginning field wiring.

**NOTICE:** The high voltage supply should be fed to the cabinet via an external isolation breaker with sufficient capacity for the planned installation.

**NOTICE:** Ensure that the supply is fully isolated at an external breaker before opening doors. Test that power has been removed before starting to handle conductors.

**NOTICE:** Ensure that high voltage and low voltage wiring remains separate.

**NOTICE:** All new wiring must be fully verified before applying power.

**NOTICE:** Designed for indoor installation and use only. Dry location rated.

## 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

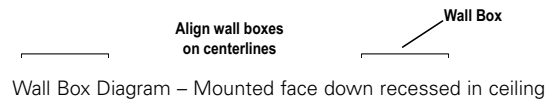
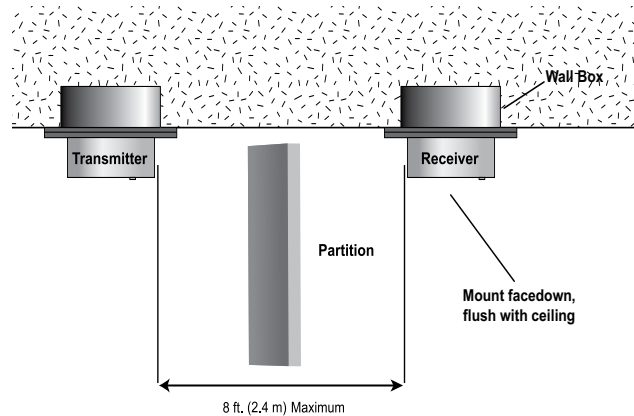
Squeeze the sides of the infrared transmitter or receiver cover then pull off the cover to expose the sensor.

## 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

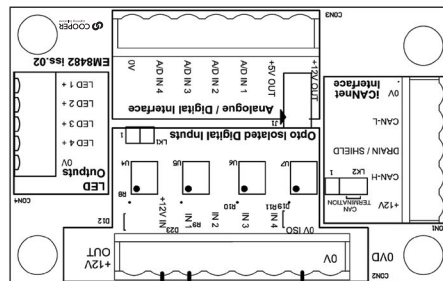
Wall Boxes should be no more than 8 ft. (2.4 m) apart.



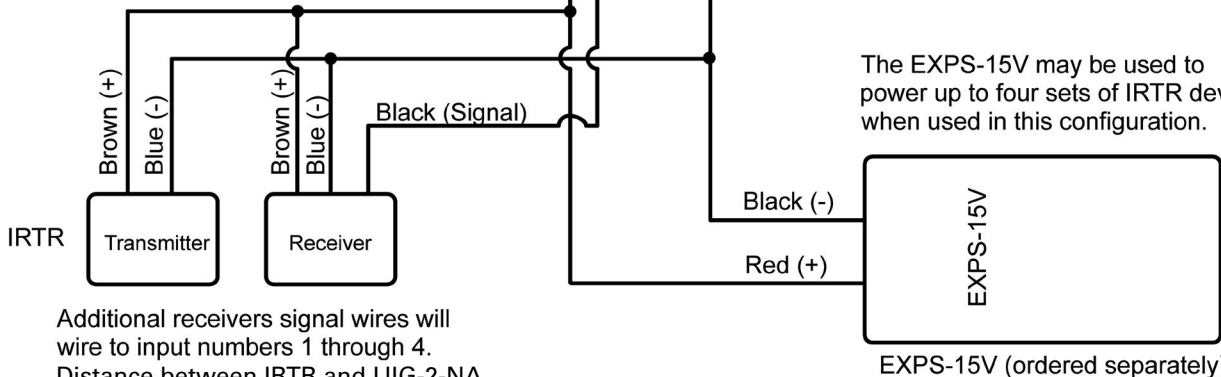
Wall Box Diagram – Mounted face down recessed in ceiling

## CONTROL WIRING & CONNECTING UP TO 4 IRTR DEVICES TO THE UIG-2-NA

UIG-2-NA (ordered separately)



Up to 4 sets of IRTR devices (4 partitions) may be wired in parallel across power (+) and ground (-) connections. Signal Wires must be run individually for proper control.



The EXPS-15V may be used to power up to four sets of IRTR devices when used in this configuration.

Additional receivers signal wires will wire to input numbers 1 through 4. Distance between IRTR and UIG-2-NA not to exceed 32 feet (10m).

EXPS-15V (ordered separately)

## 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.

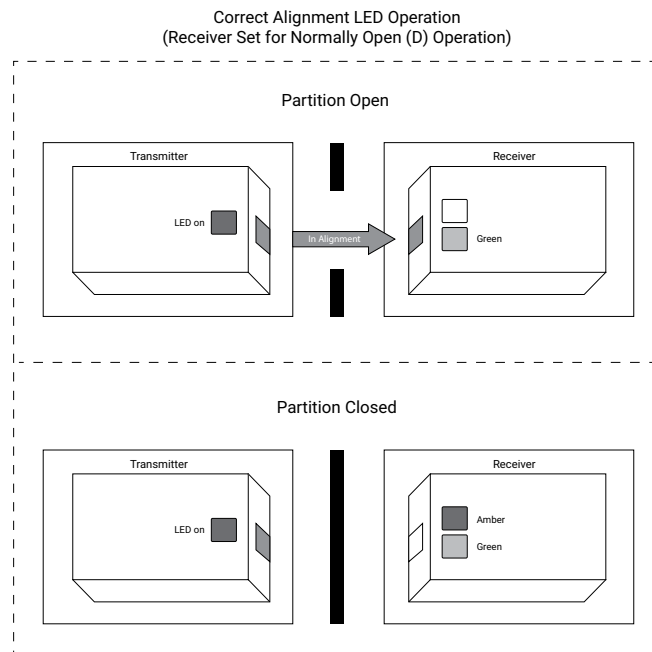
An EXPS-15V power supply will be necessary to power the IRTR devices. Up to four pairs of IRTR devices may be powered from one EXPS-15V. Cabling should consist of 18AWG twisted, stranded wire. 18-3 should be used for the IRTR device connections to the UIG-2-NA. 18-2 can be used for the EXPS-15V low-voltage 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.



## 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.cooperlighting.com](http://www.cooperlighting.com) for our terms and conditions.



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Product availability, specifications, and compliances are subject to change without notice.