

Time Delay

The time delay can be selected by the user during set up. It can be adjusted to any of these fixed values: 15 seconds/5 minutes/15 minutes/30 minutes. All of the sensors related to the same load must be set for the same time delay. For additional information on how to adjust it, please read the SENSOR ADJUSTMENT & PROGRAMMING section of this installation manual.

Light Level

When the operating mode is set for occupancy sensor, Mode 2 (Auto-ON) this feature prevents the sensor from automatically turning the lights ON if there is already enough light in the area.

In a multi-way application, each sensor monitors the light level at it's location. If any sensor related to the load detects motion AND the measured light level in that sensor's area is lower than it's Light Level setting, the load turns ON.

To adjust the light level, please read the SENSOR ADJUSTMENT & PROGRAMMING section of this installation manual.

Coverage Area

The RW3U600 has a maximum coverage range of 180 degrees and a coverage area of 600 square feet [56 square meters]. The sensor must have a clear and unobstructed view of the coverage area. Objects blocking the sensor's lens may prevent detection thereby causing the light to turn OFF even though someone is in the area.

Windows, glass doors, and other transparent barriers will obstruct the sensor's view and prevent detection.

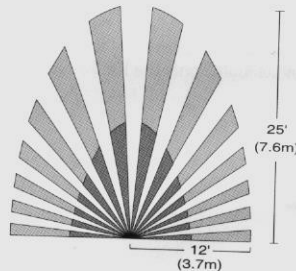


Fig. 1: Sensor Coverage Area

INSTALLATION & WIRING

WARNING

Disconnect power to the wall switch box by turning OFF the circuit breaker or removing the fuse for the circuit before installing the RW3U600, replacing lamps, or doing any electrical work.

1. Prepare the switch box.

After the power is turned OFF at the circuit breaker box, remove the existing wall plate and mounting screws. Pull the old switch out from the wall box.

2. Identify the type of circuit.

You may connect the RW3U600 to a single pole or multi-way circuit. These instructions describe only the 3-way circuit application. For information about other applications, consult technical support. If you are unable to clearly identify some or all of the wires mentioned in this manual, you should consult with a qualified electrician.

In a 3-way circuit [see Fig. 2], two traveler wires connect to both switches. Another wire provides power from the circuit box to one of the switches. A wire connects from one switch to the load. A ground wire may also be connected to a ground terminal on the old switches. A neutral wire should also be present in both wall boxes.

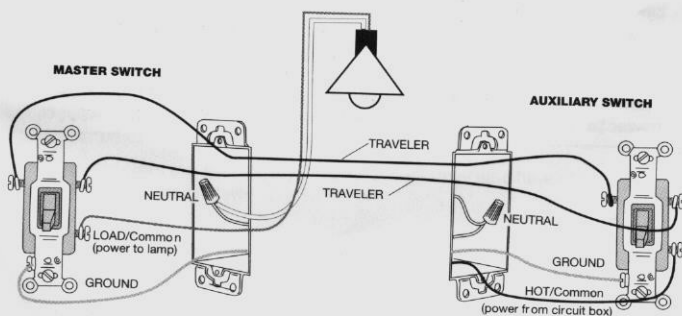


Fig. 2: Typical 3-Way Switch Wiring

CAUTION

For your safety: Connecting a proper ground to the sensor provides protection against electrical shock in the event of certain fault conditions. If a proper ground is not available, consult with a qualified electrician before continuing installation.

3. Prepare the Wires.

Tag the wires currently connected to the existing switch so that they can be identified later. Disconnect the wires. Make sure the insulation is stripped off of the wires to expose their copper cores to the length indicated by the "Strip Gage," in Fig. 3. [approx. 1/2 inch].

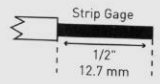


Fig. 3: Wire Stripping

4. Wire the sensor.

Twist the existing wires together with the wire leads on the RW3U600 sensors as indicated below. Cap them securely using wire nuts provided. [See Fig. 4 & 5]

- Connect the green or non-insulated (copper) GROUND wire from the circuit to the green terminal on the RW3U600s.
- Connect the NEUTRAL wire from the circuit and from the lamp (LOAD) to the white wire on the master RW3U600.

The term "master" designates the RW3U600 that connects to the load.

- Connect the neutral wire from the circuit to the white wire on the auxiliary RW3U600.
- Connect the power wire from the circuit box (HOT) to the black wire on the auxiliary RW3U600 and to the TRAVELER 1 wire.
- Connect the TRAVELER 1 wire from the black wire of the auxiliary RW3U600 to the black wire of the master RW3U600.
- Connect the lamp power (LOAD) to the red wire on the master RW3U600.
- Cap the red wire on the auxiliary RW3U600.
- Connect the TRAVELER 2 wire coming from the yellow wire of another RW3U600 to the yellow wire of the RW3U600 that you are wiring.

5. Put the RW3U600s into their respective wall boxes.

Position them with the lens positioned above the ON/OFF button (lens at top, ON/OFF button at bottom). Secure to the wall box with the screws provided.

6. Make any necessary adjustments.

See the SENSOR ADJUSTMENT & PROGRAMMING section for information.

Initial Power-up

There is an initial warm-up period. If the sensor is in Mode 2 "Automatic ON" it may take up to a minute before the lights turn ON. However, the lights can be turned ON/OFF manually by pressing the "ON/OFF Button" at anytime when power is supplied to the unit.

7. Attach the new cover plate.

Secure it with the screws provided.

8. Restore power to the circuit.

Turn on the breaker or replace the fuse

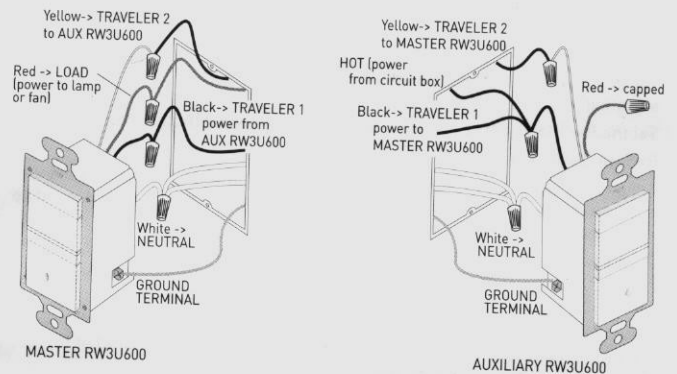


Fig. 4: Sensor orientation, wire connections and wall box assembly

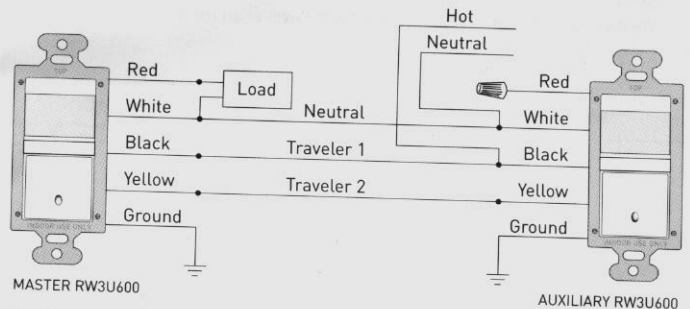


Fig. 5: Reference wiring