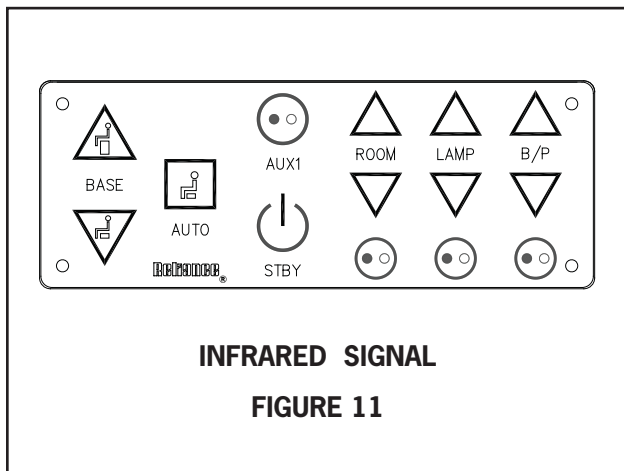


### 3.8. ECLIPSE® ROOMLIGHT CONTROL SYSTEM

The ECLIPSE® Room Light Control System, available as an option on the Model 7900 instrument stands with console. The ECLIPSE® System allows one to control examination room's incandescent and/or fluorescent lights from the Instrument Stand. This infrared (IR) system has a maximum of 16 different lighting combinations or scenes (dual zone). The ECLIPSE® is available in either a single or dual zone system.

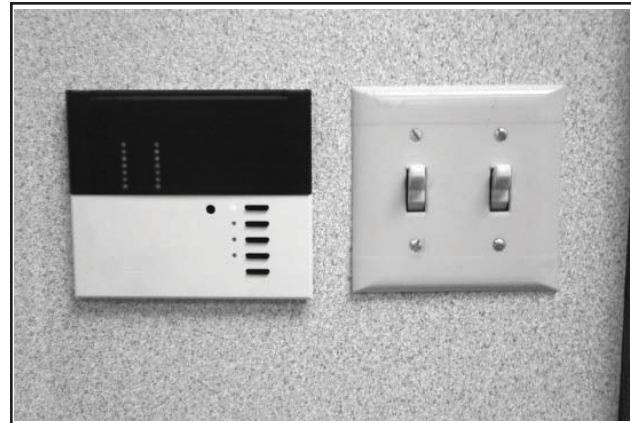
The ECLIPSE® console has an additional switch for room light controls (See Figure 11, switch marked "ROOM") and a transmitter that attaches to the top of the support pole. The software in the unit is designed to operate a designated function on the stand. A signal is sent to a receiver that is installed in the in place of the room light switch. The signal is an infrared signal, the same technology as remote control. The signal tells the receiver what "scene" the lights being controlled need to go into. A **Scene** is a lighting environment programmed into the receiver. Each function has its own scene which the user has the ability to manipulate. For example, removing the instrument from well #1 is scene 1. When the handle is removed the software tells the receiver to go to scene 1, and controls the light as scene 1 has been programmed.



#### 3.8.1. Dual Zone vs. Single Zone

3.8.1.1 A **Zone** refers to a bank of lights controlled by one room light switch. For example a room with a group of canned lights controlled by one switch and fluorescent controlled by another switch has two lighting zones. A dual zone system allows a scene to operate both zones and program them so the zones are programmed independently. When a handle is removed from well #1 the user can have one bank of lights

dim and the other turn completely off. When the handle is replaced the lights go back to the original settings. A single zone system can only control one lighting zone.



**Dual Zone Receiver/Standard 2 Zone Switch**

#### 3.8.1.2. Number of Scenes

Dual zone has 16 scenes or 8 functions on the instrument stand that can control room lights.

- Room light switch.
- B/P switch.
- Auxiliary switch.
- Lamp switch.
- Switch on the slit lamp arm.

Single zone is controlled by the room light switch.

- Well #1.
- Well #2.
- B/P switch.
- Switch on the slit lamp arm.

The B/P switch and Slit lamp switch share the same scene.

#### 3.8.1.3 Program Features

Dual zone system is programmed at the receiver mounted in the wall (see figure 17), while the single zones uses a hand held remote to program (see figure 16). The dual zone system allows one to set a fade rate of the lighting, while the single zone does not. The single zone requires the B/P switch and Slit lamp arm switch to share a scene, while dual zone does not.

#### 3.8.1.4 Indirect Hanger

Both systems accept a indirect hanger which is mounted to the back of the pole. The hanger is designed so when the indirect is lifted off, the room lights go to the desired scene and the indirect comes on. Use of the hanger supersedes the B/P switch.

### 3.8.2 Incandescent vs. Fluorescent

Both systems can accommodate fluorescent lighting.

#### 3.8.2.1 Single Zone

This system can only dim fluorescent. It requires a special receiver and dimming ballast installed to the lighting system. Incandescent only requires installing the receiver in lieu of the standard wall switch.

#### 3.8.2.2 Dual Zone

This system can either turn fluorescent on and off or dim. Turning the fluorescent on and off does require a relay assembly to be installed. Dimming fluorescent involves installing a dimming ballast and an interface, figure 20 (note dimming ballast, figure 21 is purchased separate). Incandescent lighting is a direct install. The receiver replaces the dual light switches already in the wall.

### Installation Diagram: Single Zone Incandescent 120 VAC or 277 VAC

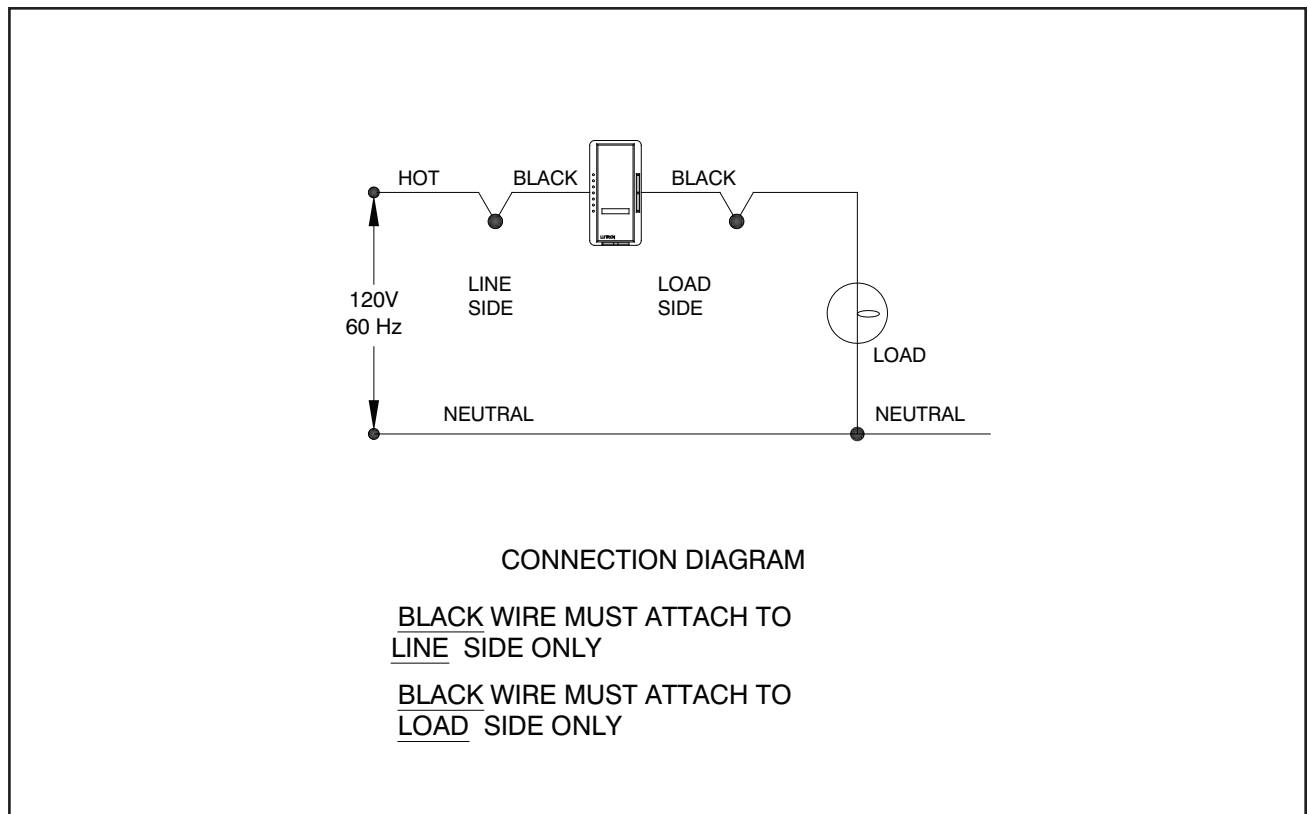


FIGURE 12

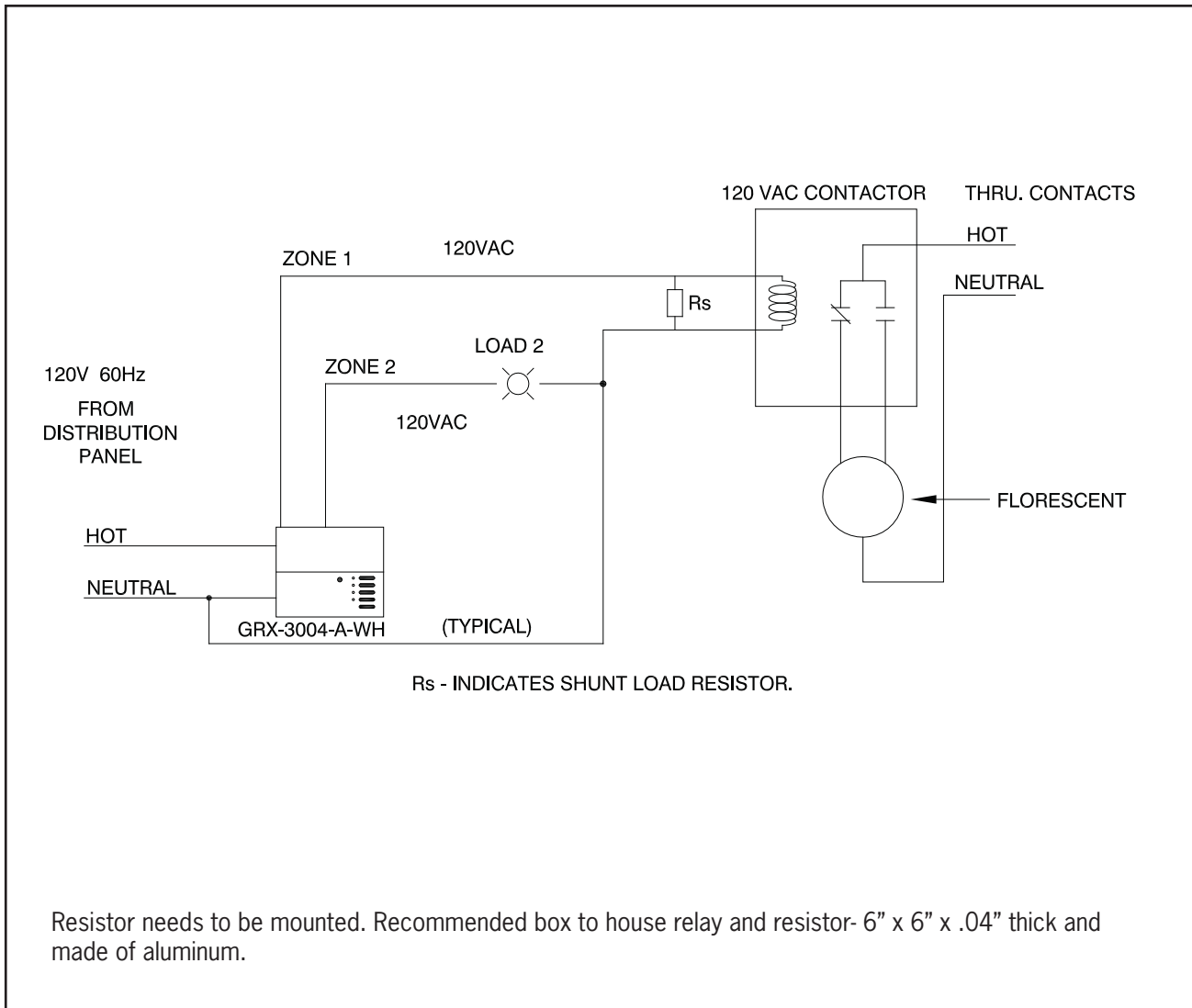


**Note:** See Installation Instructions that comes with Receiver.



**Note:** Voir les instructions d'installation accompagnant le récepteur.

**Installation Diagram: Dual Zone Fluorescent ON/OFF Incandescent  
120 VAC or 277 VAC**



**FIGURE 13**



**Note:** See Grafik Eye for installation of GRX.



**Note :** Voir l'oeil diagramme pour l'installation de GRX.