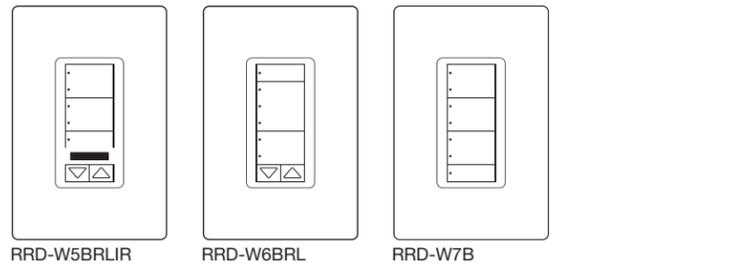
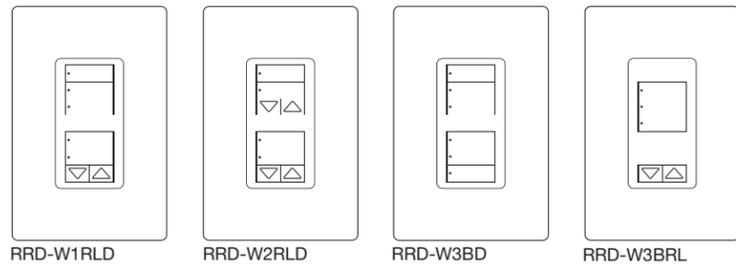


**Wall-mount Designer Keypads**RRD-W1RLD, -W2RLD, -W3BD,  
-W3BRL, -W5BRLIR, -W6BRL, -W7B  
120 V~ 50/60 Hz 0.5 A

Typical Power Consumption\*: 0.6 W

**Installation Instructions***Please Read Before Installing*

Use these instructions to install the model numbers listed above.

For system setup instructions and tools visit:  
[www.lutron.com/radiora2](http://www.lutron.com/radiora2)**Important Notes****Codes:** Install in accordance with all local and national electrical codes.**Environment:** Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0 to 90% humidity, non-condensing. Indoor use only.**Wallplates:** Use only Lutron® wallplates with these devices. The mechanical design of the keypad is NOT compatible with non-Lutron wallplates. Non-Lutron wallplates will NOT sit flush against the wall. Claro® and Satin Colors® wallplates are strongly recommended for best color match and clean aesthetic appearance. Do not paint controls, buttons, or wallplates.**Cleaning:** To clean, wipe with a clean damp cloth. DO NOT use any chemical cleaning solutions.**Wallboxes:** All keypads require a U.S. wallbox. 3 1/2 in (89 mm) deep recommended, 2 1/4 in (57 mm) deep minimum.**RF Device Placement:** RF dimmers, switches, keypads and shades/drapes must be located within 30 ft (9 m) of an RF signal repeater. For systems without an RF signal repeater, all RF dimmers, switches, keypads and shades/drapes must be located within 30 ft (9 m) of each other. Remote dimmers and switches are not required to be within a specific range.**Engraving:** The Prepaid Engraving Certificate included with the keypad can be redeemed for a custom engraved replacement kit. To order an engraved replacement kit please follow the instructions at: [www.lutron.com/buttons](http://www.lutron.com/buttons)

\*Typical Power Consumption test conditions: all backlights on medium intensity, two LEDs on (two presets active), keypad powered at 120 V~

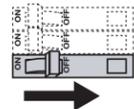
**Technical Assistance:**

U.S.A./Canada: 1.800.523.9466

Mexico: +1.888.235.2910

Other Countries: +1.610.282.3800

24 hours a day, 7 days a week.

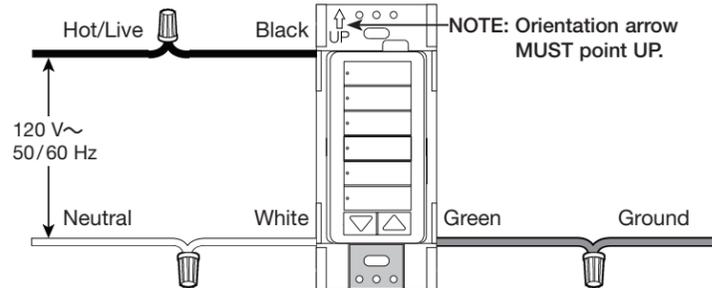
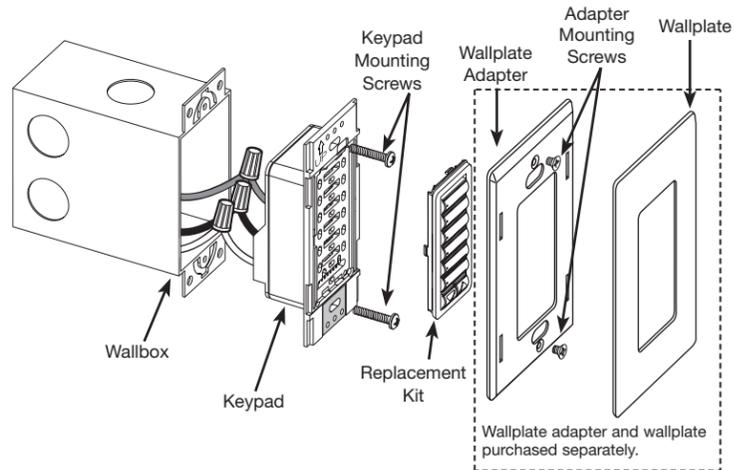
**Installation****WARNING:** Shock Hazard. To avoid the risk of electric shock, locate and remove fuse or lock circuit breaker in the OFF position before proceeding. Wiring with power ON could result in serious injury or death.

1. Turn power OFF at fusebox or circuit breaker.

2. Prepare wires. When making wire connections, follow the recommended strip lengths and combinations of the supplied wire connectors. Note: Wire connectors provided are suitable **for copper wire only**.

- Strip insulation 3/8 in (10 mm) for 14 AWG (1.5 mm<sup>2</sup>).
- Strip insulation 1/2 in (13 mm) for 18 AWG (0.75 mm<sup>2</sup>).
- Use to join one 14 AWG (1.5 mm<sup>2</sup>) with one 18 AWG (0.75 mm<sup>2</sup>) wires.

3. Wire control.

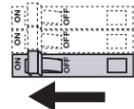
4. Push all wires back into the wallbox and loosely fasten the control to the wallbox using the keypad mounting screws provided. Do not pinch the wires. See **Mounting Diagram** below.**Mounting Diagram**

5. Install Replacement Kit (if applicable).

6. Attach Lutron *Claro* or *Satin Colors* wallplate adapter and wallplate (see **Mounting Diagram**).

- Install the wallplate adapter onto the front of the keypad(s).
- Tighten keypad mounting screws until wallplate adapter is flush to wall (do not over-tighten).
- Snap wallplate onto wallplate adapter and verify that buttons are aligned properly.
- If control(s) are misaligned, loosen keypad mounting screws appropriately.

7. Restore power.

**Simple Setup**

To program a system which contains a Main Repeater refer to the system Setup Guide. Follow the instructions below to program a system which does NOT contain a Main Repeater.

After all devices have been installed, the keypads must be programmed to control a set of dimmers, switches and shades/drapes. Programming a system which does NOT contain a Main Repeater consists of two steps:

- Assigning dimmers, switches, keypads and shades/drapes to keypads
- Saving the desired light levels and shade/drape positions

**Assigning devices to a keypad****1. Enter assign mode** – press and hold the top and bottom buttons of the desired keypad column until the LEDs begin to flash (approximately 6 seconds). If the column was previously programmed, all of the LEDs in the column will scroll sequentially. If this is the first time the column is programmed, only the top and bottom LEDs will flash alternately*Note: The keypad will automatically exit assign mode after 10 minutes.***2. Press each keypad button** between the top and bottom buttons to add the buttons to the column. Once pressed, the LED next to a button will flash in sequence with the other LEDs, indicating that it is now part of the keypad column.**3. Assign devices to the keypad column.****a. Dimmers/switches** – press and hold the tapswitch on the device until the load flashes 3 times (approximately 6 seconds). The LEDs on assigned dimmers and switches will continue to flash while the keypad is in assign mode.**b. Shades/drapes** – press any button on the drive and the LED will flash.**4. Assign other keypad columns** – press and hold the bottom button of the keypad column to be assigned until the LEDs begin to flash (approximately 6 seconds). Assigning a keypad column to another keypad column is useful for making keypad LEDs track each other. All keypads assigned to each other should have the same set of dimmers, switches and shades/drapes assigned to them. While the first keypad is in assign mode, its LEDs will scroll (if previously programmed) and the LEDs on assigned keypads will continue to flash simultaneously.*Note: To unassign a device that is assigned, repeat the corresponding method described in steps 3-4.***5. When all devices have been assigned, exit assign mode** by holding the top and bottom buttons of the column until all the LEDs stop scrolling (approximately 3 seconds).**6. Confirm programming** by individually pressing every button on the keypad. Assigned devices respond to the button press by going to the default level for that button. During normal operation, when a button is pressed, the LED next to the button is illuminated. The LED turns off after another button is pressed on that keypad, on another assigned keypad, or if a level of a dimmer or switch assigned to the column changes.**Saving light levels and shade/drape positions**You can customize the levels or positions of the devices assigned to a keypad column by using the steps below. The keypad column containing the button to be customized must have already been programmed according to **Assigning devices to a keypad**, above.**1. Press the button** you wish to customize. The lights and shades/drapes will move to the default level(s) and/or position(s) for this button. Wait until the lights and shades/drapes stop dimming and moving.**2. Adjust each dimmer, switch and shade/drape** assigned to that column as follows:

- Dimmers** - use the tapswitch to toggle the lights on or off. Use the raise or lower button on the right side of the dimmer to make adjustments to the desired light levels.
- Switches** - use the tapswitch to toggle the lights on or off.
- Shades/drapes** - use the clockwise or counter-clockwise buttons on the shade/drape to adjust the position.

**3. Making dimmers, switches and shades/drapes 'unaffected' (optional)** – to make assigned devices not respond to a button press, you may make the devices 'unaffected'. During normal operation when you press a button, a device that is 'unaffected' will ignore that button press. The light level or shade/drape position will not change. To make devices 'unaffected', follow the corresponding step below based on the type of device to be made 'unaffected'.

- Dimmer** – if the dimmer is on, turn it off using the tapswitch. After the dimmer is completely off, hold the lower rocker until the three middle LEDs turn on (approximately 6 seconds), signifying that the next save will be ignored. \*\*
- Switch** – if the switch is on, turn it off using the tapswitch. Pull the FASS™ switch out. Press and hold the tapswitch. While still holding the tapswitch, push the FASS switch in. Continue holding the tapswitch until the LED flashes, signifying that the next save will be ignored. \*\*
- Shade/Drape** – if the shade/drape is open, close it using either the clockwise or counter-clockwise button. Release the button. After the shade/drape is closed, press and hold the same button used to close the shade/drape until the green LED blinks quickly (approximately 10 seconds), signifying that the next save will be ignored. \*\*

**4. Press and hold the selected keypad button** until the LED flashes (approximately 6 seconds) to save the current levels or the 'unaffected' status. The LED will blink rapidly for 1-2 seconds to confirm that the save was successful.

\*\* After a device becomes 'unaffected', you have 10 minutes to complete the save for all dimmers, switches and shades/drapes.

*Note: To change the 'unaffected' status of a dimmer, switch or shade/drape, follow the steps in **Saving light levels/shade/drape positions** above.***Troubleshooting Guide (for Simple Setup)**

Symptom	Probable Cause and Action
LEDs on a keypad don't light up when the buttons on it are pressed.	Power not present at keypad <ul style="list-style-type: none"> <li>• Circuit breaker OFF. Turn ON breaker.</li> </ul>
	Incorrect wiring. <ul style="list-style-type: none"> <li>• Wire the keypad according to the <b>Installation</b> section.</li> </ul>
Dimmer, switch or shade/drape not controlled by a keypad.	The dimmer, switch or shade/drape is not assigned to keypad. <ul style="list-style-type: none"> <li>• Follow the steps in <b>Assigning devices to a keypad</b>.</li> </ul>
	The device is 'unaffected.' <ul style="list-style-type: none"> <li>• Follow the steps <b>Saving light levels and shade/drape positions</b> to change the 'unaffected' status.</li> </ul>
	The lamps are burned out. <ul style="list-style-type: none"> <li>• Replace the lamps.</li> </ul>
	Either there is no power to the device or the FASS™ switch is pulled out. <ul style="list-style-type: none"> <li>• Ensure that the device is powered and push FASS switch in.</li> </ul>
Dimmer, switch or shade/drape does not go to desired level when a button on a keypad is pressed.	The system is not setup correctly. <ul style="list-style-type: none"> <li>• Follow the steps in <b>Saving light levels and shade/drape positions</b> to set up the system.</li> </ul>
	The device is 'unaffected.' <ul style="list-style-type: none"> <li>• Follow the steps <b>Saving light levels / shade/drape positions</b> to change the 'unaffected' status.</li> </ul>
All LEDs on the keypad flash when any button is pressed.	The keypad is in the Factory Settings mode and has not been configured to work in a system. <ul style="list-style-type: none"> <li>• Follow the steps in <b>Assigning devices to a keypad</b>.</li> </ul>

*Note: Refer to the system Setup Guide for additional troubleshooting suggestions.***Returning Keypads to Factory Settings**

Returning a keypad to its Factory Settings will remove the keypad from the system and erase all programming.

**Step 1:** Triple tap any button on the keypad. DO NOT release after third tap.**Step 2:** Keep the button pressed on the third tap until all the status LEDs start to flash slowly (approximately 3 seconds).**Step 3:** Immediately release the button and triple tap the button again. The status LEDs on the keypad will flash quickly.

The keypad has now been returned to Factory Settings.

**Warranty:** For warranty information, please see the Warranty enclosed with the product, or visit [www.lutron.com/resiinfo](http://www.lutron.com/resiinfo).