

### **Installation Instructions**

Please Read Before Installing

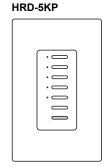
# Designer-Style RF Slim-Button Keypads HRD-5KP, -5RL, -10KP, -10RL

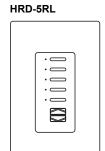
120 V~, 0.5 A, 50/60 Hz

### Overview

The HRD-5KP, -5RL, -10KP, and -10RL keypads are for use with *HomeWorks* systems. The keypad buttons are programmed with a personal computer using the *HomeWorks* Utility.

Up to 32 keypads, each with a unique address, can be assigned to each *HomeWorks* RF Processor.





# **Important Notes**

**Codes:** Install in accordance with all local and national electrical codes.

**Environment:** Ambient operating temperature: 0-40°C, 32-104°F, 0-90% humidity, non-condensing. Indoor use only.

Wallplates: Lutron Claro® and Satin Colors™ wallplates are recommended for best color match and clean aesthetic appearance. Do not paint controls or wallplates.

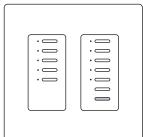
**Cleaning:** To clean, wipe with a clean damp cloth. **DO NOT** use any chemical cleaning solutions.

**Wallboxes:** Lutron recommends using 3-1/2 in. (89 mm) deep wallboxes for easier installation.

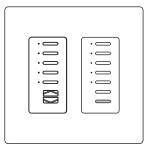
**RF Device Placement:** RF Keypads must be located within 30 feet (9 m) of an RF Signal Repeater or an RF Processor.

RF Keypads will not function until they are addressed and programmed. See the *HomeWorks* Utility online help.





#### HRD-10RL



### Installation

1. Turn power OFF at fusebox or circuit breaker.



**Danger -** Locate and remove fuse or lock circuit breaker in the OFF position before proceeding. Wiring with power ON may result in personal injury.

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

#### Small:

Strip insulation 3/8 in. (10 mm) for 14 AWG (2.5 mm²).

Strip insulation 1/2 in. (13 mm) for 16 AWG (1.5 mm $^2$ ).

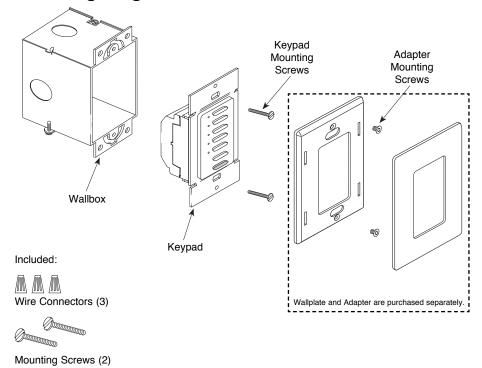
Use to join one 14 AWG supply wire with one 16 or 18 AWG (1.0 mm²) control wire.



- 3. Wiring: See Wiring Diagram (page 3).
- **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.

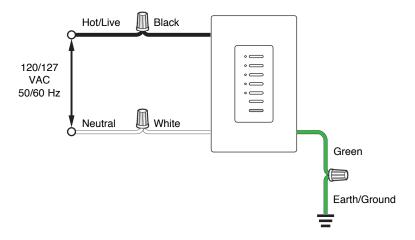
- **5.** Attach Lutron Claro<sub>®</sub> or Satin Colors™ wallplate adapter and wallplate.
  - a. Loosely install keypad mounting screws.
  - b. Tighten wallplate adapter mounting screws snug.
  - c. Tighten keypad mounting screws until wallplate adapter is flush to wall (do not overtighten).
  - d. Snap wallplate onto wallplate adapter, and verify that buttons are not submerged.
  - e. If buttons are submerged, loosen keypad mounting screws appropriately.
- 6. Restore power.

## **Mounting Diagram**





# **Wiring Diagram**



# **Troubleshooting Guide**

RF Keypads will not function until they are addressed and programmed. See the *HomeWorks* Utility online help.

Symptom	Cause and Action
LEDs don't light up when buttons are pressed.	Power not present at keypad  Circuit breaker OFF. Turn ON breaker.  Wiring error. Check wiring to be sure it agrees with installation.
Button presses on keypad cause the keypad to <i>quickly</i> flash all its LEDs simultaneously.	Keypad has not been addressed. • See the <i>HomeWorks</i> Utility online help for setup details.
Button presses on keypad cause the keypad to <i>slowly</i> flash all its LEDs simultaneously.	Keypad has an address, but does not have a valid programming database.  • See the <i>HomeWorks</i> Utility online help for programming details.
Keypad cannot be addressed.	Keypad is out of RF communications range.  • Move RF Signal Repeater or RF Processor to within 30 feet of keypad.
LEDs light when button is pressed, but the system response is not correct.	Improper programming  • Check programming in HomeWorks Utility.



#### **FCC Information**

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- · Increase the seperation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not expressly approved by Lutron Electronics Co. could void the user's authority to operate this equipment.

#### **Industry Canada Information**

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

#### **Technical and Sales Assistance**

If you need assistance, call the toll-free *Lutron Technical Support Center*. Please provide exact model number when calling.

(800) 523-9466 (U.S.A., Canada and the Caribbean) Other countries call:

Tel: (610) 282-3800 Fax: (610) 282-3090

Visit our Web site at www.lutron.com

### LIMITED WARRANTY

Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within two years after purchase. For warranty service, return unit to place of purchase mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid. Telephone the Lutron Technical Support Center toll free at 800-523-9466. After the two year period, a pro-rated warranty applies to this product until eight years after the purchase. For more information regarding this warranty contact your Lutron representative.

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