



Installation Instructions

Please Read Before Installing

RF Designer-Style Keypads

HRD-5KP, -5RL, -10KP, -10RL

120/127VAC, 50/60Hz

Overview

The HRD-5KP, -5RL and HRD-10KP, -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.

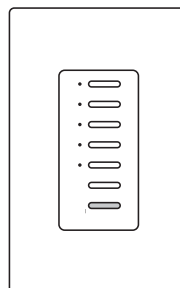
Cleaning: *Clean with a soft damp cloth only.* Do not use any chemical or abrasive cleaners.

Wallboxes: Lutron recommends using 3.5" (89mm) deep wallboxes for easier installation.

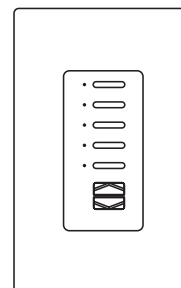
RF Device Placement: RF Keypads must be located within 30 feet (9m) of an RF Signal Repeater or an RF Processor.

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

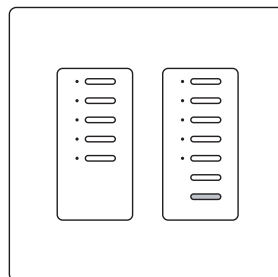
HRD-5KP



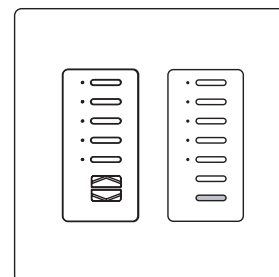
HRD-5RL



HRD-10KP



HRD-10RL



Installation

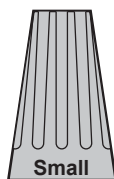


Danger - Locate and remove fuse or lock circuit breaker in the OFF position before proceeding. Wiring with power ON may result in personal injury.

1. Turn power OFF at fusebox or circuit breaker.
2. 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:

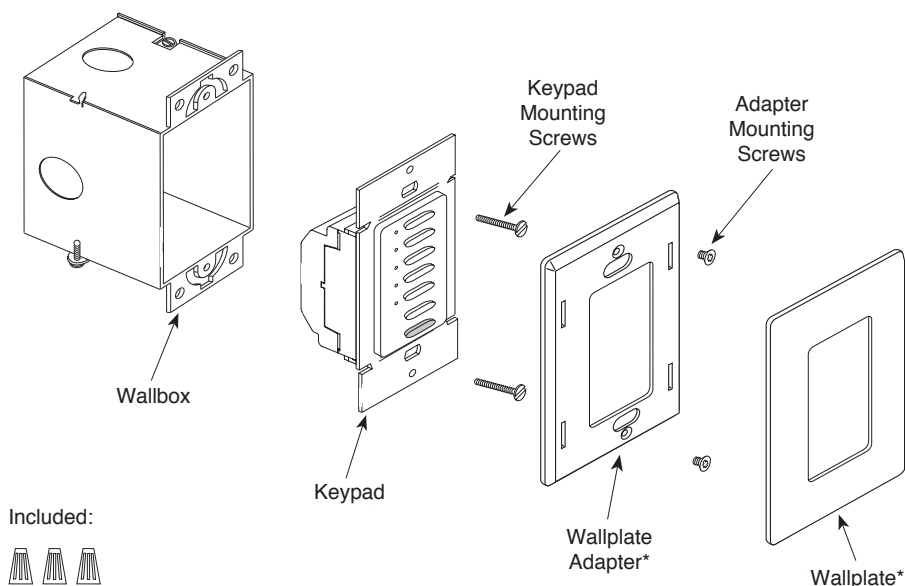
Strip insulation .375" (10mm) for 14AWG (2.5mm²).
Strip insulation .5" (13mm) for 16AWG (2.5mm²).
Use to join one 14AWG supply wire with one 16 or 18AWG (1.0mm²) control wire.



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 screws provided. Do not pinch the wires.

5. Attach Lutron Claro® or Satin Colors™ wallplate adapter and wallplate.
 - a. Loosely install keypad mounting screws.
 - b. Tighten adapter mounting screws snug.
 - c. Tighten keypad mounting screws until keypad is flush to wall (do not over-tighten).
 - d. Snap wallplate onto adapter.
6. Restore power.

Mounting Diagram



Included:



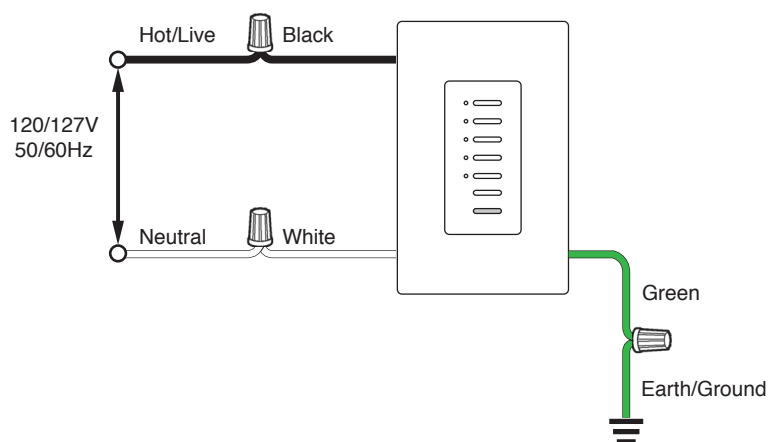
Wire Connectors (3)



Mounting Screws (2)

* Wallplate and Adapter are purchased separately.

Wiring Diagram



Troubleshooting Guide

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

Keypad is working properly when LEDs light up and loads respond as buttons are pressed.

Symptom	Cause and Action
LEDs don't light up.	Power not present at keypad • Circuit breaker OFF. Turn ON breaker. • Wiring error. Check wiring to be sure it agrees with installation instructions and wiring diagram.
LEDs cycle from top to bottom sequentially.	Keypad is properly powered but... • Keypad has not been addressed. See the HWI Utility online help for addressing details.
LEDs blink twice while cycling from top to bottom sequentially.	Keypad is properly powered but... • Keypad has not been programmed. See the HWI Utility online help for programming details.
Keypad cannot be addressed.	Keypad is out of RF communications range. • Move RF Repeater or RF Processor to within 30 feet of keypad.
LEDs light when pressed, but the system response is not correct.	Improper programming • Check programming in HWI 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 separation 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 or 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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This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This product may be covered by one or more of the following U.S. patents: 4,835,343; 4,889,999; 5,170,068; 5,237,207; D378,814; D436,579 and corresponding foreign patents. U.S. and foreign patents pending. Lutron, Claro, and HomeWorks are registered trademarks and Satin Colors is a trademark of Lutron Electronics Co., Inc.
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