

Installation Instructions

Please Read Before Installing

RF Contact Closure Input Interface

HR-CCI-6-SW

120/127 V ~ , 50/60 Hz (9 V ⎓ adapter)

Overview

The RF Contact Closure Input Interface (HR-CCI-6-SW) allows the *HomeWorks* lighting control system to seamlessly integrate with other manufacturers' contact closure outputs. The RF CCI Interface may be conveniently located close to the controlling equipment, because it wirelessly communicates with the *HomeWorks* lighting system. This provides simple, reliable and flexible whole-home integration.

Up to 32 interfaces or 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.

Power: Use only the adapter provided by Lutron with your unit (Lutron model # T120-9DC-3-WH).



Caution - Using an adapter not rated at the following specifications could damage the RF CCI Interface and possibly overheat the adapter.

- Input: AC 120/127 V 50/60Hz
- Output: DC 9 V/300 mA Class 2

Contact Closure Compatibility: The input closures are intended for use with devices that provide maintained or momentary outputs in the form of dry contact closure or open collector outputs meeting the following criteria:

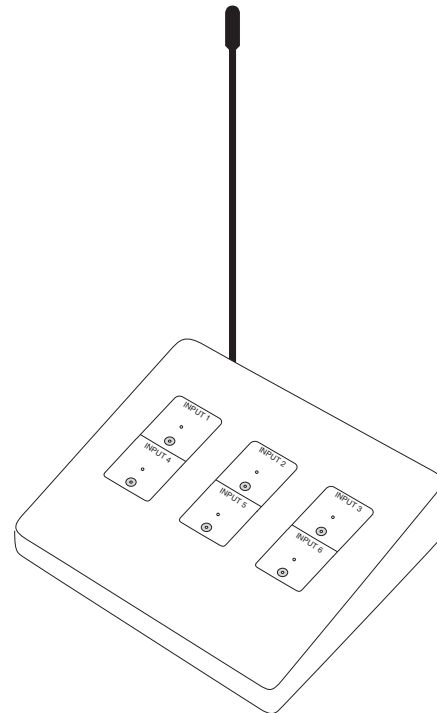
- On saturation voltage: < 1.0 VDC at 2 mA
- Off leakage current: < 10.0 μ A at 12 VDC
- Outputs must stay in the closed or open state for at least 40 msec in order to be recognized by the interface

If there is any question as to whether the contact closure device is compatible with these specifications, contact the manufacturer of that device.

Contact Closure Wiring:



Caution - **DO NOT** apply voltage between any two terminals on the RF CCI Interface. This will cause improper operation and could damage the interface and the connected equipment.



HR-CCI-6-SW

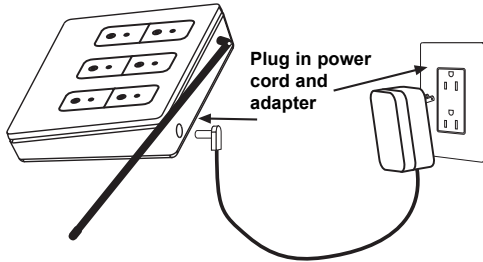
Environment: Ambient operating temperature: 32-104°F (0-40°C), 0-90% humidity, non-condensing. Indoor use only.

Cleaning: To clean, wipe with a clean damp cloth. **DO NOT** use any chemical solutions. Do not paint the RF CCI Interface.

RF Device Placement: RF CCI Interfaces must be located within 30 feet (9m) of an RF Signal Repeater or an RF Processor (see System Communication, page 3).

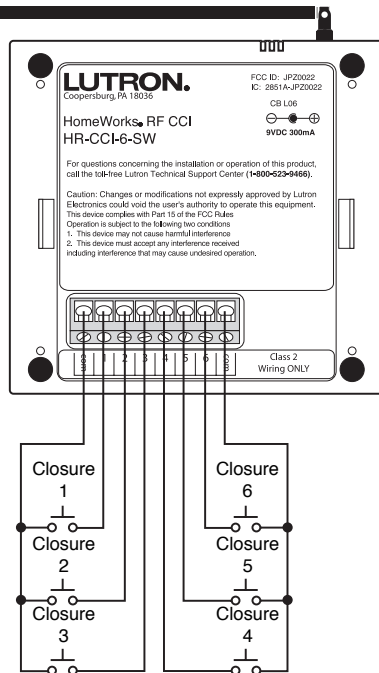
Installation

1. Find a suitable location for the RF Contact Closure Input Interface. Place the interface in a convenient and accessible location. **Note:** RF CCI Interfaces must be located within 30 feet (9m) of an RF Signal Repeater or an RF Processor.
2. Connect external input closures. The RF CCI Interface will accept up to six low-voltage dry contact closures (see Wiring Diagram). Each terminal will accept up to three #22-18 AWG (0.5-1.0mm²) wires.
3. Apply power to the RF Contact Closure Input Interface.



Wiring Diagram

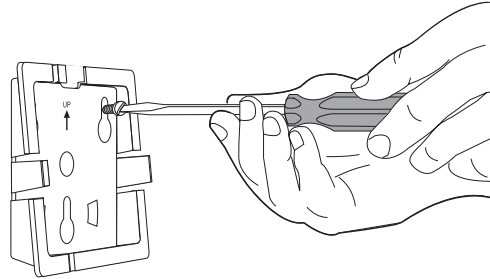
HR-CCI-6-SW
(Rear View)



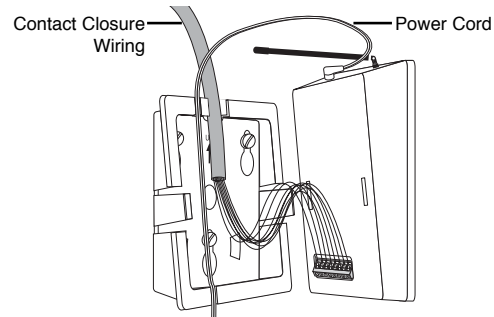
Mounting Diagram

RF CCI Interfaces may be wall mounted using the supplied wall bracket.

1. Attach wall bracket to wall using the supplied screws and wall anchors.



2. Place adapter cord into notches at top and bottom of wall bracket. Place contact closure wiring into cutout at top of wall bracket. Align interface and snap onto wall bracket.



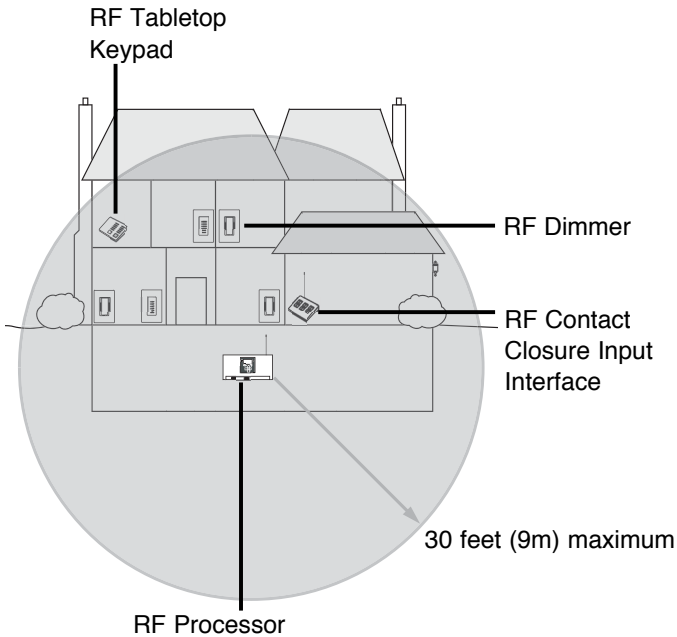
Programming Test

The buttons on the front of the RF CCI Interface may be used to test system programming. Pressing any button on the interface will override the current state of the input:

- If the current state is *closed*, a button press will cause a Contact Open event. The release of this button will cause a Contact Closed event.
- If the current state is *open*, a button press will cause a Contact Closed event. The release of this button will cause a Contact Open event.

RF Coverage Diagrams

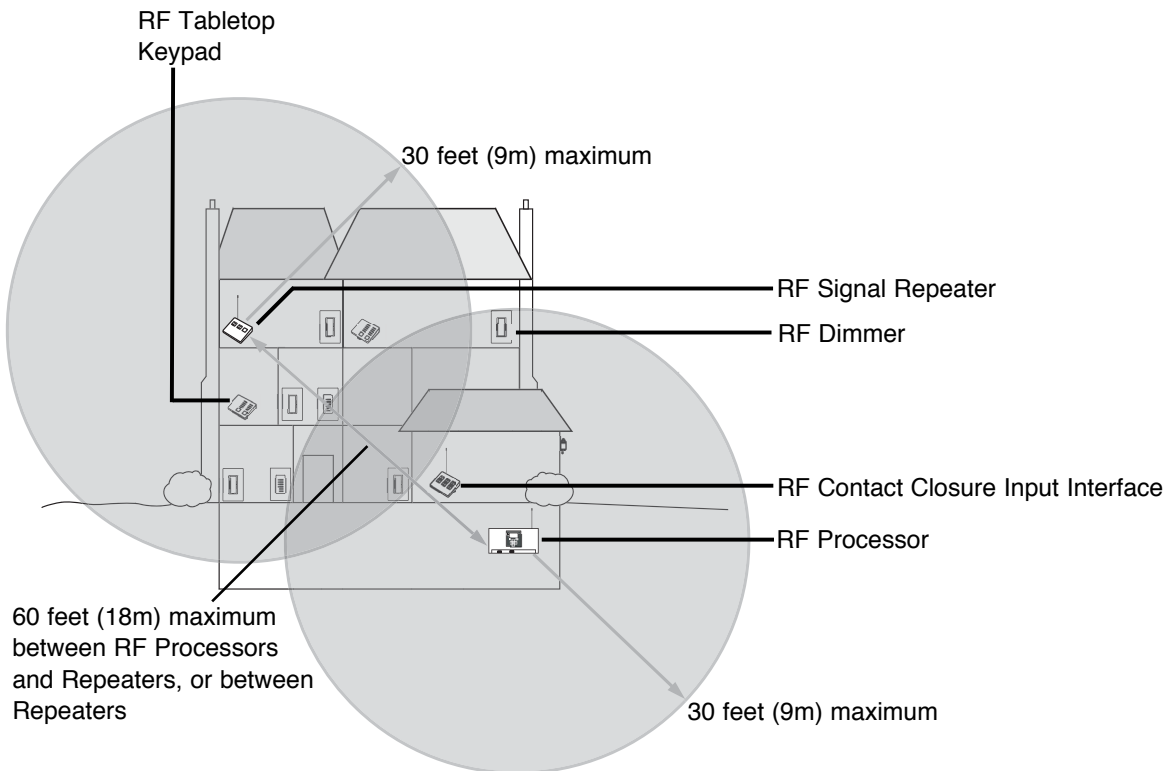
Home A: 2500 sq. ft. (232m²) or less - all RF devices within 30 ft. (9m) of RF Processor



System Communication Notes

- RF CCI Interfaces must be located within 30 feet (9m) of an RF Signal Repeater or an RF Processor. Multiple repeaters may be necessary to provide adequate coverage.
- RF CCI Interfaces do not function until they are addressed and programmed. See the *HomeWorks Utility* online help.

Home B: 2500 sq. ft. (232m²) or greater - some RF devices more than 30 ft. (9m) from RF Processor



Troubleshooting Guide

RF Contact Closure Input Interfaces will not control other system devices until they are addressed and programmed. See the HomeWorks® Utility online help.

Symptom	Cause and Action
LEDs on RF CCI Interface do not light.	No power available to interface. <ul style="list-style-type: none">• Verify adapter is plugged in.• Verify breaker is on. Faulty adapter. <ul style="list-style-type: none">• Replace adapter.
Button presses on RF CCI Interface cause the interface to <i>quickly</i> flash all its LEDs simultaneously.	Interface has not been addressed. <ul style="list-style-type: none">• See the <i>HomeWorks</i> Utility online help for setup details.
Button presses on keypad cause the RF CCI Interface to <i>slowly</i> flash all its LEDs simultaneously.	Interface has an address, but does not have a valid programming database. <ul style="list-style-type: none">• See the <i>HomeWorks</i> Utility online help for programming details.

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.

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.

THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES, AND THE IMPLIED WARRANTY OF MERCHANTABILITY IS LIMITED TO TWO YEARS FROM PURCHASE. THIS WARRANTY DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES. LUTRON'S LIABILITY ON ANY CLAIM FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE MANUFACTURE, SALE, INSTALLATION, DELIVERY, OR USE OF THE UNIT SHALL NEVER EXCEED THE PURCHASE PRICE OF THE UNIT.

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.

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