

Installation Instructions

HWI-CCI-8 HomeWorks Interactive Contact Closure Input Board

- 1. Verify compatibility of input devices.** The HWI-CCI-8 is intended for use with devices that provide status in the form of dry contact closure outputs. It can be used with ground-referenced, solid-state outputs if the outputs have an on-state saturation voltage of less than 2VDC and an off-state leakage of less than 50 μ A. Dry contact or solid-state outputs must be capable of switching 15VDC at 10mA. If there is any question as to whether the device is compatible with these specifications, contact the company that manufactures it.
- 2. Install Board in the Low-Voltage Enclosure.** Consult enclosure instructions to determine the correct location. Press the standoff in the upper left hand corner of the board through one of the orange labels marked "CC" located in an HWI-ENC-LV17-120 or an HWI-ENC-LV32, or press it into the small hole in an HWI-ENC-CC. (A 1/4" (6.4mm) nutdriver can be used to help press in the standoff.) Using the #8 x 1/2" screws provided, attach the board through the remaining mounting holes.



Caution - Minimize bending of the board during installation.



Caution - Board components are sensitive to electrostatic discharge.



Caution - All wiring must be in accordance with national and local electrical codes.

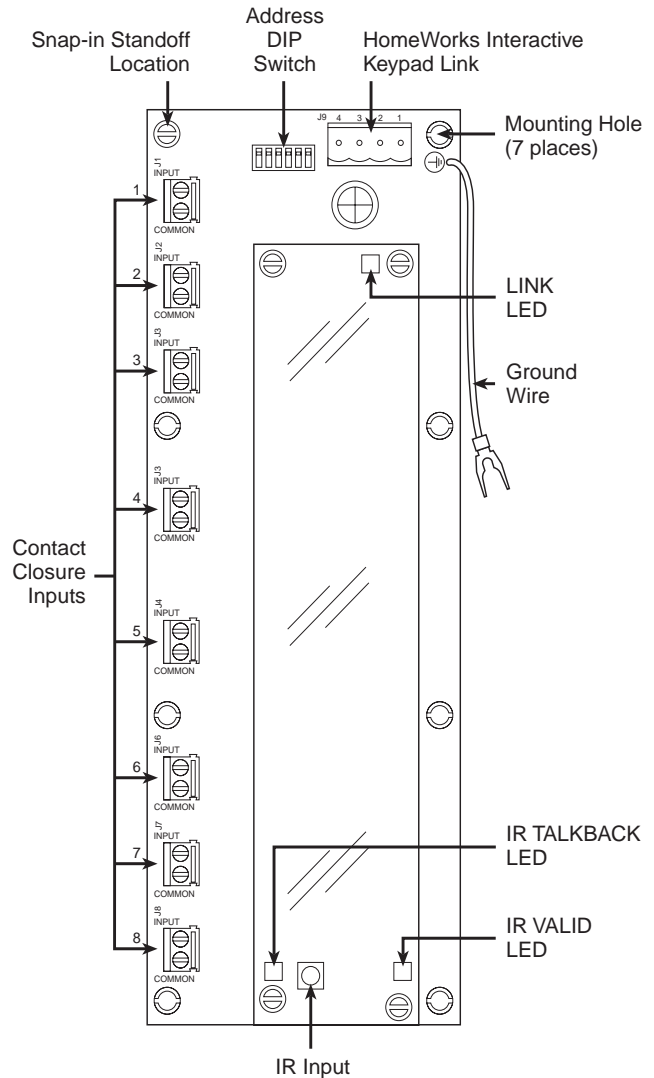
- 3. Connect Ground Wire.** Using the #8 x 1/4" screw provided, connect the ground wire to the enclosure in any convenient location.
- 4. Set Address.** Set the address on the DIP switch to the address provided for this HWI-CCI-8 by the HomeWorks Interactive Utility. Use Table 1 (next page) to determine the switch settings.
- 5. Connect Contact Closure Inputs.** Connect the wiring to the contact closure input terminal blocks using Class 2 or better cable. The input and common connections are labeled on the printed circuit board.



Danger - Do not connect high voltage wiring (greater than 60VDC) to the HWI-CCI-8.

- 6. Connect the Keypad Link.** Connect the keypad link terminal block to the HomeWorks Interactive keypad link using two pair twisted shielded 18 AWG (1.0mm²) cable (see Wiring Note). The HWI-CCI-8 can only be used with HomeWorks Interactive (HWI) series keypads, and **cannot be used with HWV keypads.**

Figure 1: HWI-CCI-8



Wiring Note: One pair 18 AWG, and one pair twisted shielded 22 AWG may also be used. The 18 AWG pair must be used for the power connections (terminals 1 and 2).

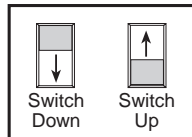
- 7. Check for communications and power.** Confirm that the LINK LED is on. If it is on, proceed to step 8. If it is off, the board is not powered. Check that the processor is on and that keypad link terminals 1 and 2 are connected. If the LINK LED is flashing, the board is not communicating to the processor. Check the connection at keypad link terminals 3 and 4 here and at the processor. If the LINK LED is still not lit, disconnect and then reconnect the keypad link connection. If this condition persists, contact Lutron.

8. Any individual input can be tested by applying a short from the input to the common terminals. While shorted, the associated LED should turn ON. When the short is removed, the LED should turn OFF. If the equipment connected to the input is already forcing the "ON" state, the "OFF" state can be verified by simply disconnecting the removable terminal block from the printed circuit board.

9. Verify IR (infrared) function (if used). The IR TALKBACK LED flashes when any IR signal is detected. The IR VALID LED flashes momentarily when a valid Lutron IR code is received. A Lutron IR Remote (GRX-IT or GRX-8IT) can be used to verify these functions. The IR input is provided for use with third party IR repeating systems. Attach the IR emitter directly to the clear ESD shield. Secure the emitter by attaching its connecting wire to the ESD shield with a cable tie.

Table 1 - DIP Switch Settings

Address #	Switch Setting	Address #	Switch Setting	Address #	Switch Setting	Address #	Switch Setting
1		9		17		25	
2		10		18		26	
3		11		19		27	
4		12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	
8		16		24		32	



World Headquarters

Lutron Electronics Co., Inc.
7200 Suter Road
Coopersburg, PA 18036-1299, U.S.A.
TOLL FREE: (800) 523-9466 (U.S.A., Canada and the Caribbean)
Tel: (610) 282-3800; International 1 610 282-3800
Fax: (610) 282-3090; International 1 610 282-3090

European Headquarters

Lutron EA LTD
Lutron House
6 Sovereign Close
Wapping
London, E1 9HW England
FREEPHONE: (0800) 28 21 07 (U.K.)
Tel: (171) 702-0657; International 44 171 702-0657
Fax: (171) 480-6899; International 44 171 480-6899

Technical and Sales Assistance

If you need assistance, call the toll-free **Lutron Technical Assistance Hotline**. 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

Asian Headquarters

Lutron Asuka Corporation K.K.
2nd Floor, Kowa Shiba-Koen Bldg.
1-11 Shiba-Koen 1 chome
Minato-ku, Tokyo
105-0011 Japan
TOLL FREE: (0120) 083 417 (Japan)
Tel: (3) 5405-7333; International 81-3-5405-7333
Fax: (3) 5405-7496; International 81-3-5405-7496

Hong Kong Sales Office

Tel: 2104-7733; International 852-2104-7733
Fax: 2104-7633; International 852-2104-7633

Singapore Sales Office

Tel: 220-4666; International 65-220-4666
Fax: 220-4333; International 65-220-4333

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