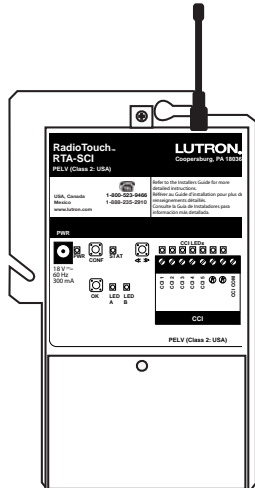


# Please Read

# RadioTouch™

## RTA-SCI

## Switch Closure Interface Programming and Operation Guide



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**Danger!** The *RadioTouch* Switch Closure Interface (RTA-SCI) must not be used for emergency or egress lighting applications. This *RadioTouch* system must not be used to control equipment, other than lighting, which is not visible from every transmitter location. It also must not be used to control equipment that could create hazardous situations such as entrapment if operated accidentally. Examples of equipment which must not be controlled by this *RadioTouch* system include (but are not limited to) motorized gates, garage doors, industrial doors, etc. It is the installer's responsibility to ensure that the equipment, other than lighting, being controlled is visible from every master or local control location and that only suitable equipment is connected to this *RadioTouch* system.

### 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 and used in accordance with the instructions, may 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.

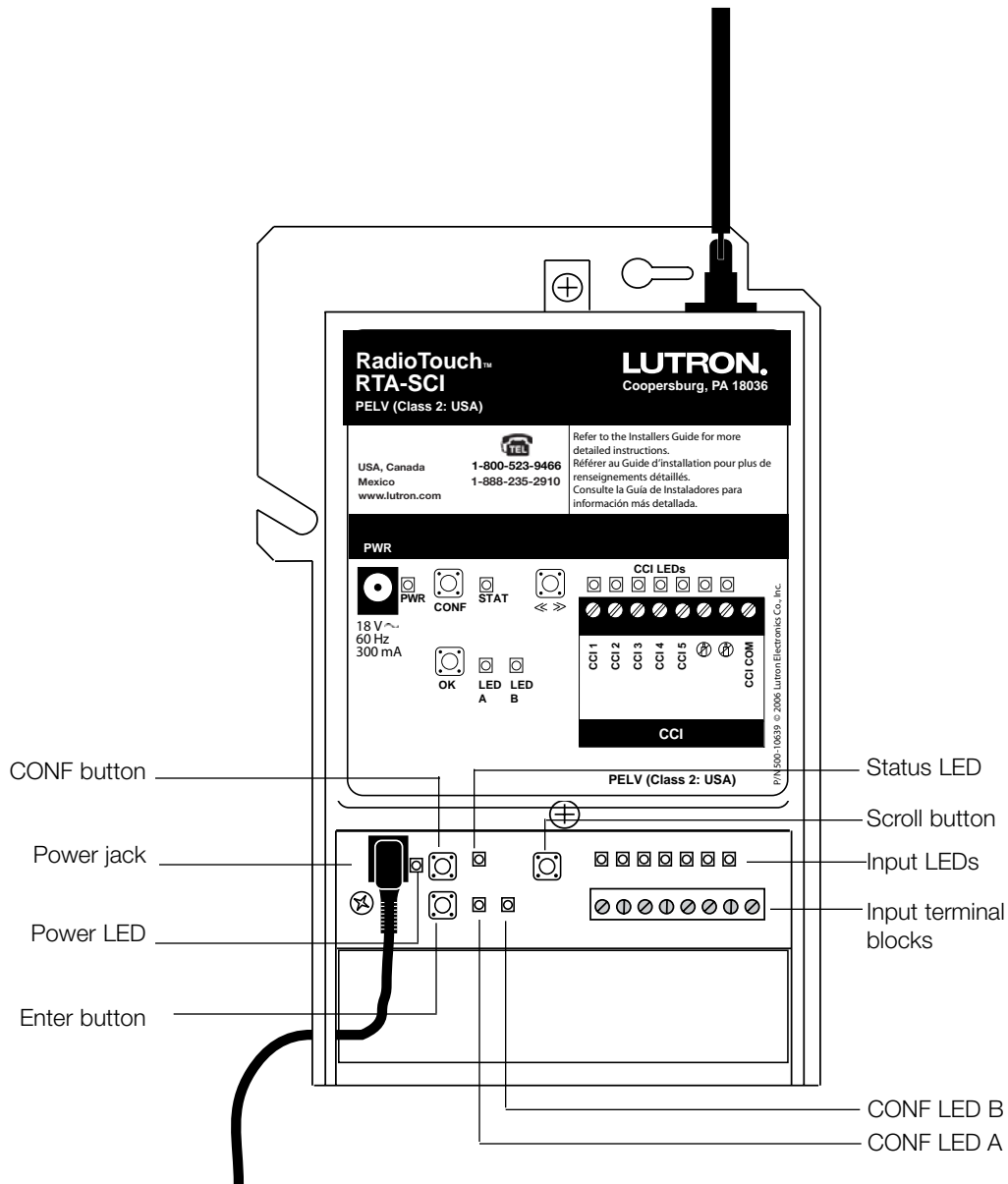
Industry Canada Information: The "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

# System Overview

## Description

The *RadioTouch* Switch Closure Interface (RTA-SCI) is used to interface a *RadioTouch* visual environment control system to devices capable of providing switch closures such as timeclocks and Building Management Systems (BMS). The *RadioTouch* SCI is a transmitter in the *RadioTouch* System that can be configured to control lights, *Sivoia QED* controllable window treatments, AC motorized window treatments, or AC motorized projection screens in conjunction with other *RadioTouch* products.

**Note:** The SCI Interface will not operate until it has been programmed.



# Installation

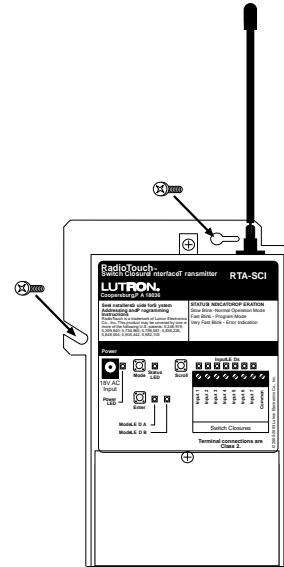
## Important Notes

- Install in accordance with all national and local electrical codes.
- Do not paint the SCI.
- Operate in ambient temperatures of 0-40 °C (32-104 °F).
- Use only the AC adapter provided by Lutron with your SCI unit. The AC adapter provided has the following electrical characteristics.
  - Input: 120 V $\sim$  60 Hz
  - Output: 18 V $\sim$  300 mA; PELV (Class 2: USA)
- It is recommended that the transmitters (such as the SCI) in a *RadioTouch* system should not be placed more than 35 ft. (10.7 m) from the receivers that each transmitter controls. The range and performance of the *RadioTouch* system is highly dependent on a variety of complex factors such as:
  - Distance between system components
  - Construction of walls separating system components
  - Electrical equipment located near system components
- Input channels will accept dry contact closures and open collector outputs (< 0.3 V $\equiv$ ) only. Do not apply voltage to any input channel. Applying voltage to any input might damage the unit and will void the warranty.
- Each external switch closure that is wired to an input channel on the SCI must be able to sink at least 10 mA.
- Input channels 1 through 5 accept momentary contact closures. Input channels 6 and 7 are not currently used. Do not wire an external switch closure to terminals 6 or 7.
- A momentary input closure must be held for 150 ms for the SCI to recognize the closure as a valid command .
- For reliable operation ensure that all the SCI devices in an installation are driven by the same input closure source.

## Location

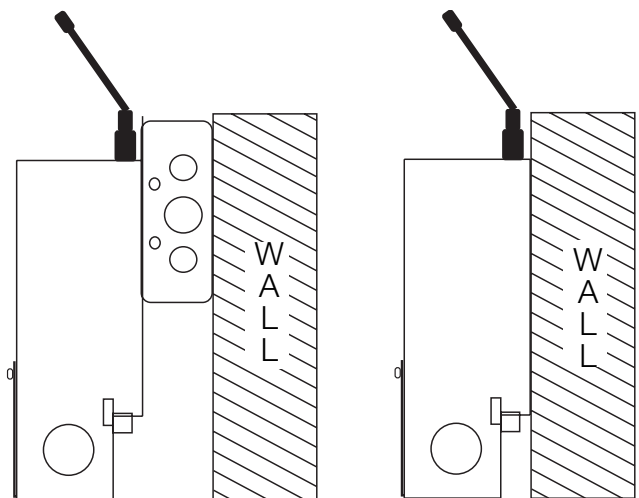
Place the SCI in a convenient and accessible location.

**Note:** The SCI must be located within 35 ft. (10.7 m) of all *RadioTouch* controllers it will be addressed to in the room.



## Mounting

Using two screws, mount the SCI to a 4 x 4 in. (120 x 120 mm) junction box or directly to a wall (screws and wall anchors are provided) as shown.



# Installation (continued)

## Attach the Power Supply

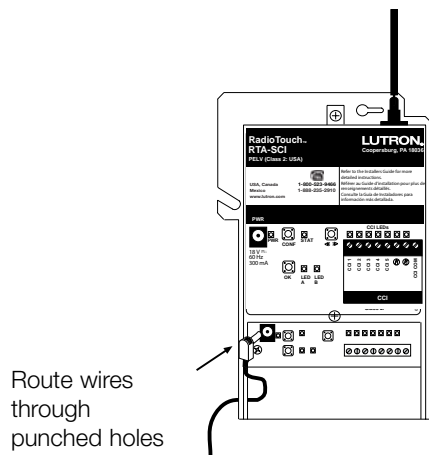
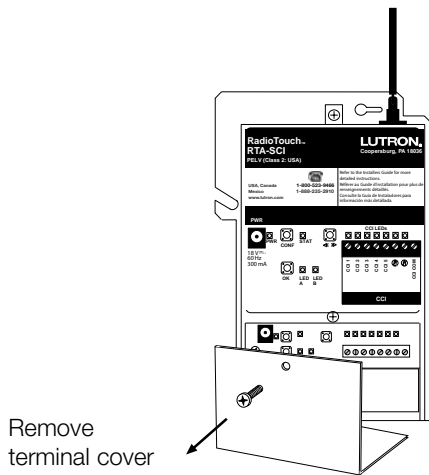
Remove terminal cover. Place the provided grommet in the knockout hole before wiring. Route the power supply cord through the knockouts located on either side of the unit. Attach the power supply cord to the SCI (jack located in the bottom left corner).



**Caution!** Observe all local and national electrical codes and safety standards.



**Danger!** Do not connect line voltage to the RTA-SCI. Connecting line voltage can result in personal injury or damage to the control or other equipment.

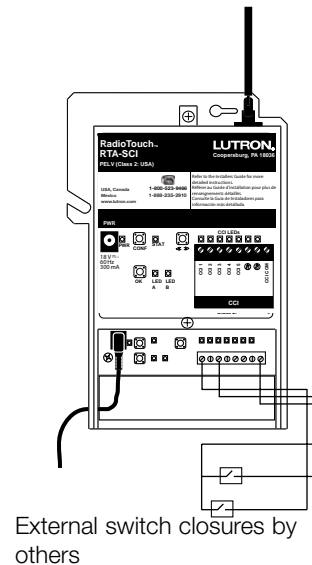


## Wire the External Switch Closures to the Terminal Block Inputs

Route the switch closure wires through the knockouts located on either side of the unit. Wires must enter unit through the knockout holes. Replace the terminal cover after wiring.

The SCI is a transmitter in the *RadioTouch* system, which can be configured to control a lighting zone or an output closures zone on an RTA-RX-F-SC. Depending on the type of zone that the SCI is configured to control, the 5 inputs perform different functions. In addition, if the SCI is configured to control a lighting zone, each of input 1 to input 4 can be assigned one of two functions (Option A or Option B).

The various configurations are listed in the tables that follow as an aid to deciding which Input closure to wire to each Input terminal.



# Installation (continued)

## RTA-SCI Zone Configurations

When set up with the load type closures, the SCI may be used to control AC motorized window treatments, *Sivoia QED* window treatments, or AC projection screens. The table that follows show how the inputs on the SCI are mapped in each case. For instructions on wiring the *RadioTouch* controller to AC motorized window treatments, *Sivoia QED* window treatments, or AC projection screens, refer to the *RadioTouch* Installer's Guide.

Lights	Option A	Option B	Closures	Option A/B
Input 1	Preset 1	Preset 5	Input 1	Closure 1
Input 2	Preset 2	Preset 6	Input 2	Closure 2
Input 3	Preset 3	Preset 7	Input 3	Closure 3
Input 4	Preset 4	Preset 8	Input 4	Closure 4
Input 5	Off	Off	Input 5	Closure 5

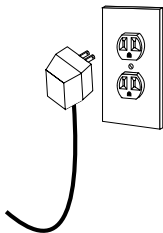
  

Closure Applications	Projection Screens	AC Motorized Window Treatments	Sivoia QED Window Treatments
Input 1	-	-	-
Input 2	Open	Open	Open
Input 3	-	Close	Close
Input 4	Close	Stop	Preset
Input 5	-	-	-

## Plug In the Power Supply



**Danger!** Plug the power supply into a 120 V~ outlet only.



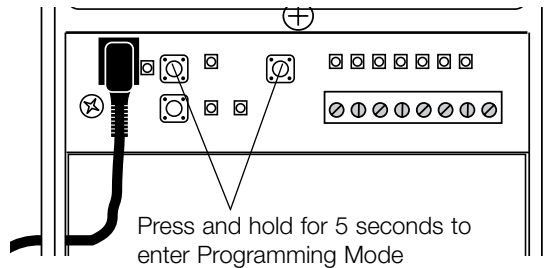
# Programming



**Note:** The SCI is set up to control a lighting zone when it leaves the factory. If you need the SCI to control a non-lighting zone, see the Advanced Programming section before proceeding.

## Enter Programming Mode

All setup operations on the SCI are performed in programming mode. To put the unit into programming mode, press and hold the CONF button and the Scroll button together for 5 seconds, until the CONF LED begins to flash approximately once per second. The unit is now in programming mode.



## Programming Functions

# CONF

Button Presses	Mode	LED A Status	LED B Status	Page #
1	Set # of devices	On	Off	9
2	Set device address	Off	On	8
3	Configure load type	On	On	10
4	Set input option	Flashing	Off	11
5	Adjust preset levels	Off	Flashing	12

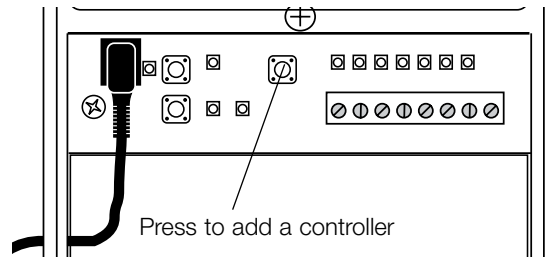
# Programming (continued)

## Address the SCI to a *RadioTouch* Controller

In order to address the SCI to *RadioTouch* controllers, the controllers must first be placed in programming mode. On each controller press the Program button. The lights will cycle up and down for 3 seconds to notify you that this controller is in programming mode. If you are using an RTA-RX-SW the lights will cycle OFF and ON. The Status LED will be in fast blink mode on that controller.

Press the Scroll button on the SCI to add the SCI to the controllers that are in programming mode. When the controllers have added the SCI transmitter, the lights will flash or cycle OFF and ON. If no lights are connected to the controllers, you will not get visual feedback.

Press the Program button on the controller to take each controller out of programming mode. The lights will go to high end and the Status LED will return to slow blink mode. If you are using an RTA-RX-SW, the lights will cycle OFF and ON.

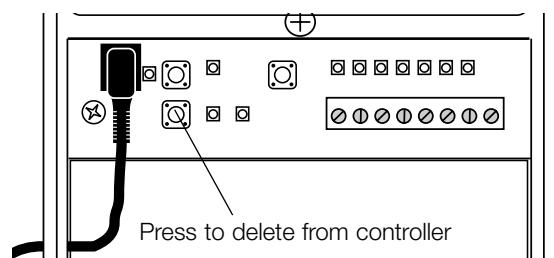


## Remove the SCI from a *RadioTouch* Controller

In order to remove the SCI from *RadioTouch* controllers, the controllers must first be placed in programming mode. On each controller press the Program button. The lights will cycle up and down for 3 seconds to notify you that you are in programming mode. If you are using an RTA-RX-SW the lights will cycle OFF and ON. The Status LED will be in fast blink mode.

Press the Enter button on the SCI to remove the SCI from the controllers. When the controllers have removed the SCI transmitter, the lights will flash or cycle OFF and ON. If no lights are connected to the controllers, you will not get visual feedback.

Press the Program button on each controller that is in programming mode to take it out of programming mode. The lights will go to high end and the Status LED will return to slow blink mode. If you are using an RTA-RX-SW, the lights will cycle OFF and ON.



# Programming (continued)

## Set the Device Address of the SCI

By default the SCI is set up as the only device in the system. If your installation has only one SCI then skip this step. For multiple SCI devices, perform these steps for each device.

Enter programming mode (see page 6). Press the CONF button twice. The device is ready to accept its device address. (CONF LED A is off and CONF LED B is on).

Assign each SCI in the system a unique number counting up from 1 and incrementing by 1 until every SCI is numbered. Each SCI in the system must be programmed with its unique number. This number is referred to as the address of the SCI. For reliable system operation it is essential that each SCI be assigned a unique address. Since the address can have two digits, each digit is entered into the device separately.

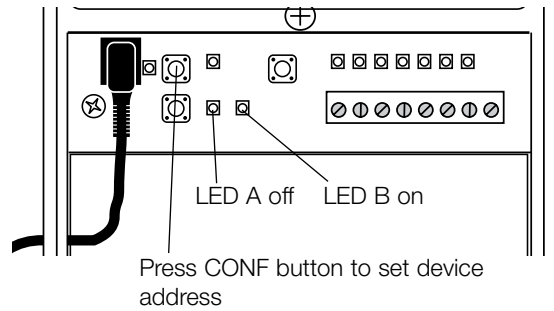
Note: The address of a device as indicated by both the units and the tens digits can never exceed the total number of SCI devices in the system (see page 9).

### Set the units digit

Press the Scroll button to increment the value shown by the Input LEDs, until the required value is reached. Refer to the table on page 9 to read the value shown by the Input LEDs.

### Set the tens digit

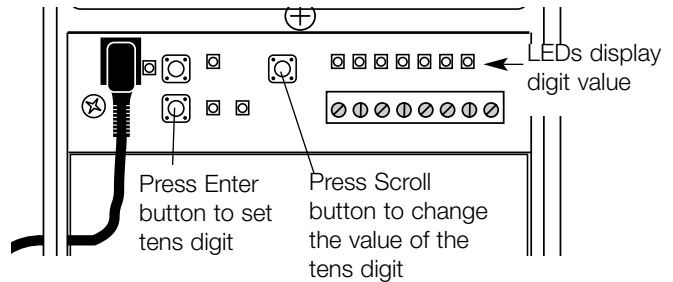
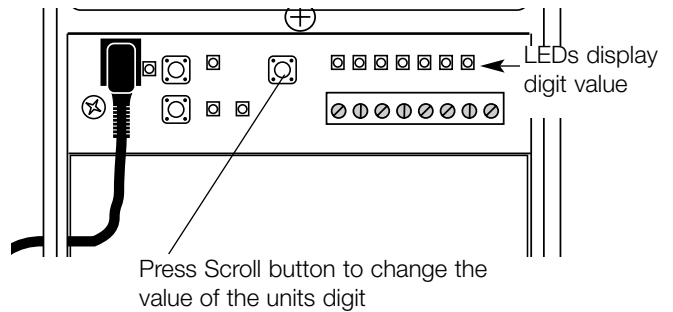
Press the Enter button to switch to programming the tens values. The Input LEDs will flash to indicate that you are entering the tens value. Press the Scroll button to increment the value shown by the Input LEDs, until the required value is reached. Refer to the table page 9 to read the value shown by the Input LEDs.



### Example:

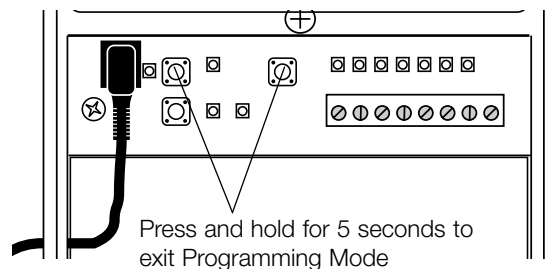
1 2 = device number

↑ Units digit (program first)  
↑ Tens digit (program second)



## Exit Programming Mode

To take the device out of programming mode, press and hold the CONF button and the Scroll button simultaneously for five seconds, until the mode LED begins to flash slowly. The unit is now in normal operating mode.





# Advanced Programming

## Set the Number of SCI Devices in the System

By default the SCI is set up as the only device in the system. If your installation has only one SCI, skip this step. For multiple SCI devices, perform these steps for each device.

Enter programming mode (see page 6). Press the CONF button once. The device is ready to accept the total number of SCI devices in the system. (CONF LED A is on and CONF LED B is off).

The maximum number of devices allowed in a system is 64. Each digit (tens and units) of the number of devices is entered into the device separately.

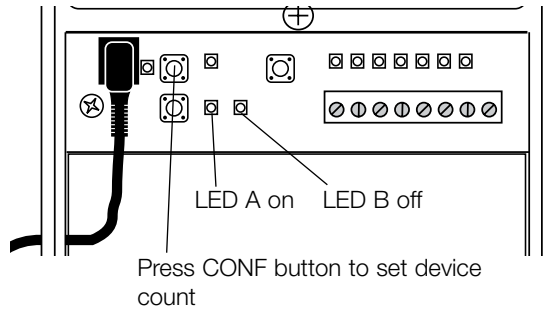
### Set the units digit

Press the Scroll button to increment the value shown by the Input LEDs until the required value is reached. Refer to the table to read the value shown by the Input LEDs.

### Set the tens digit

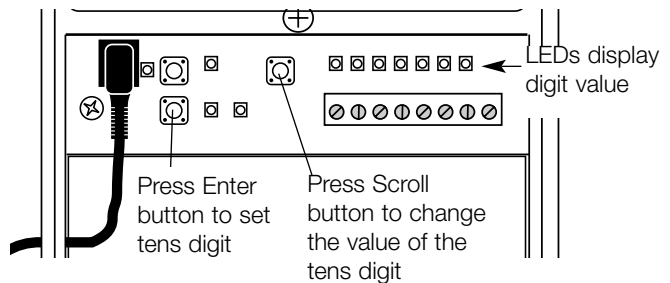
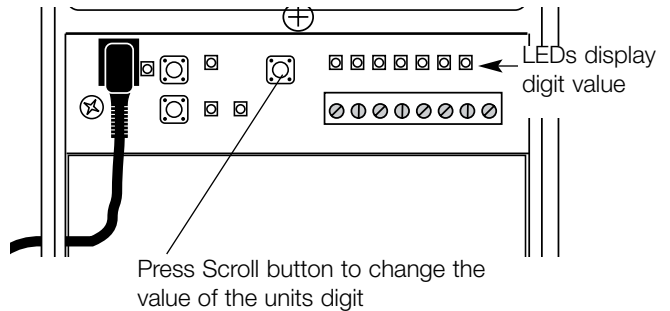
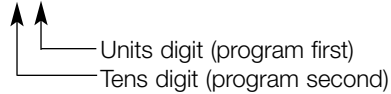
Press the Enter button to switch to programming the tens values. The Input LEDs will flash to indicate that you are entering the tens value. Press the Scroll button to increment the value shown by the Input LEDs, until the required value is reached. Refer to the table to read the value shown by the Input LEDs.

Exit programming mode (see page 8).



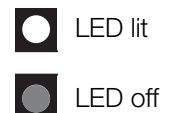
### Example:

5 8 = number of devices



## LED Displays for Digit Values

Digit Value	L1	L2	L3	L4	L5	L6	L7
0	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit
1	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit
2	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit
3	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit
4	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit
5	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit
6	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit
7	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit
8	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit
9	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit	LED lit



# Advanced Programming (continued)

## Configure or Change the SCI Load Type

Enter programming mode (see page 6). Press the CONF button three times. The device is now in the mode to select the load type. (CONF LED A is on and CONF LED B is on).

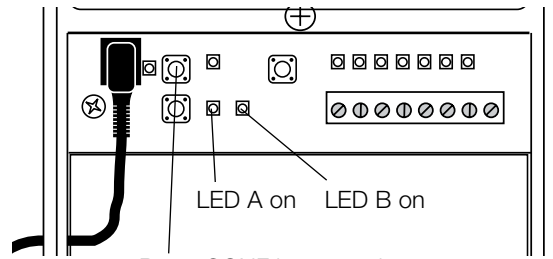
The SCI can be configured as a transmitter that controls only LIGHTS or only CLOSURES.

Press the Scroll button to change the load type. The load type that is set is indicated by the Input LEDs. The table that follows lists the different load types and the corresponding indication on the Input LEDs.

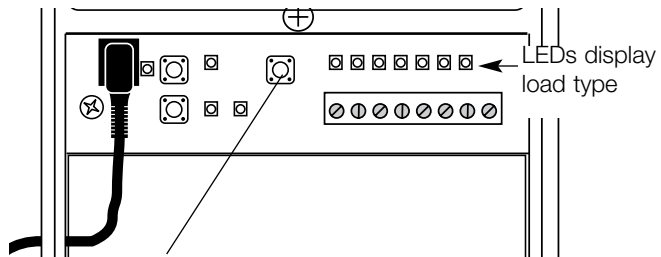
When the desired load type is selected, exit programming mode (see page 8).



If the load type is changed, the SCI will have to be re-addressed to the *RadioTouch* controllers that control the new zones (see page 8).



Press CONF button 3 times to configure load type



Press Scroll button to change the load type

### LED Displays for Load Types

Load Type	L1	L2	L3	L4	L5	L6	L7	
Lights	●	●	●	●	●	●	●	● LED lit
Unused	●	●	●	●	●	●	●	● LED off
Closures	●	●	●	●	●	●	●	

# Advanced Programming (continued)

## Set or Change Option A/B for Individual SCI Inputs (lights only)

Enter programming mode (see page 6). Press the CONF button four times to put the device into the mode to select input options. (CONF LED A is flashing and CONF LED B is off).

Input 1 through Input 4 can be individually configured to perform one of two functions, Option A and Option B. (See table below.)

Note: Option B is applicable only if the load type is set to LIGHTS. Selecting Option B when the load type is set to CLOSURES has no effect on the system. If the SCI is not configured to control a LIGHTS zone, then this step should be skipped.

Each LED above the Input terminals (1-4) indicates which option is selected for the respective Input. If the LED is off, Option A is selected for that input. If the LED is on, Option B is selected for that input. In this mode one of the Input LEDs will be blinking slowly. This is the cursor to indicate which Input is being configured currently.

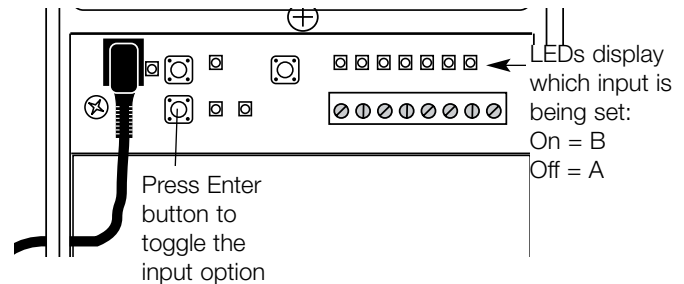
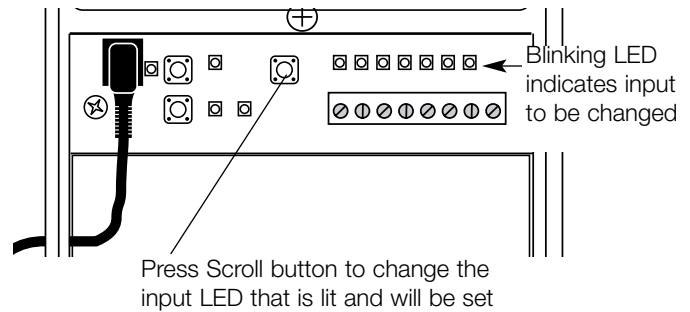
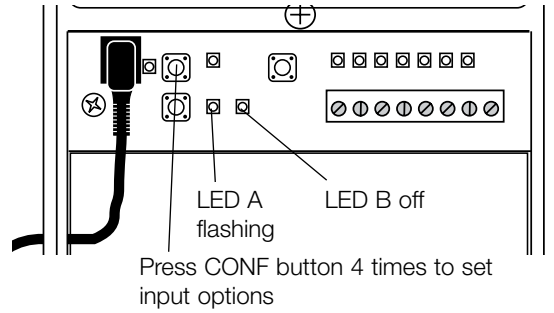
### Select the input to change

Press the Scroll button until the LED corresponding to the Input that is to be changed begins blinking.

### Change the input option

Press the Enter button to toggle the option for the input that is currently selected. This is the input above which the LED is blinking slowly.

Repeat for each input that needs to be changed. When all the inputs are set to the correct option, exit programming mode (see page 8).



Lights	Option A	Option B
Input 1	Preset 1	Preset 5
Input 2	Preset 2	Preset 6
Input 3	Preset 3	Preset 7
Input 4	Preset 4	Preset 8
Input 5	Off	Off

# Advanced Programming (continued)

## Adjust Preset Levels

Like any *RadioTouch* transmitter, the SCI can be used to adjust the preset levels stored in the controller. Preset levels can be adjusted only if the SCI is configured to control LIGHTS.

Enter programming mode (see page 6).

Press the CONF button five times to put the device into the mode to adjust preset levels. (CONF LED A is off and CONF LED B is flashing).

Each Input can be set to function with Option A or with Option B. The Option selected for an input determines the preset that is selected by that input. When adjusting the preset levels of a *RadioTouch* controller, only the current set of presets that are available through the Inputs of the SCI may be adjusted from that SCI.

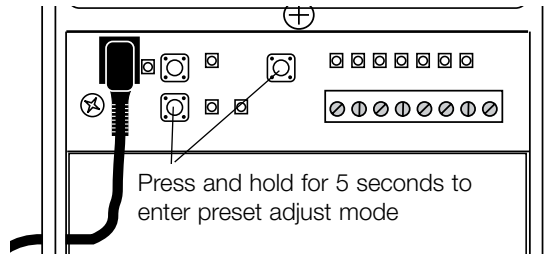
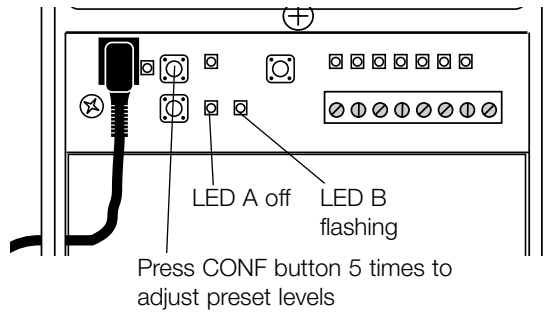
e.g. If an SCI is set up with Option A for Inputs 1, 2 and 3, and Option B for Input 4, the presets that are available to that SCI are Preset 1, Preset 2, Preset 3, and Preset 8. Only these presets may be adjusted from this SCI.

### Set the controller to preset adjust mode

There are two ways to set up a *RadioTouch* controller to respond to commands from the SCI to adjust a preset.

If it is required to adjust the preset on every *RadioTouch* controller to which an SCI is addressed, then put all controllers in preset adjust mode from the SCI. Press and hold the Scroll button and the Enter button at the same time until the lights on the controller flash and reach mid level (approx 5 seconds). The controller is now in preset adjust mode.

If it is required to adjust the preset on only some of *RadioTouch* controllers to which an SCI is addressed, then each controller to be adjusted should be put into preset adjust mode individually. A controller is put into preset adjust mode by flipping DIP switch #1 on the controller to the DOWN position.



# Advanced Programming (continued)

## Select the preset to adjust

Press the Scroll button to select the input desired. The Input LED that lights up indicates the selected input.

## Begin adjusting the selected preset

Press the Enter button to begin adjusting the preset associated with the selected input. The Input LED above the input that is being adjusted will start flashing rapidly.

## Raise or lower the selected preset

Press the Scroll button repeatedly to raise the selected preset to the desired level. Press the Enter button repeatedly to lower the selected preset to the desired level.

## Save the selected preset

Once the desired light level has been established, save the preset associated with the selected input by pressing the CONF button. The Input LED above the input that is being adjusted will stop flashing.

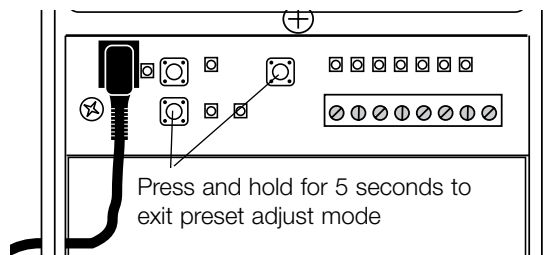
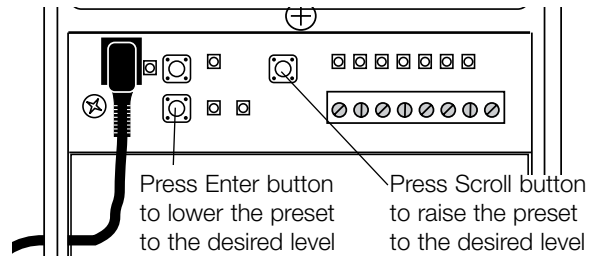
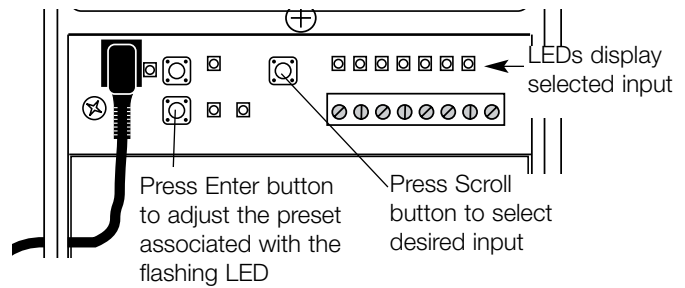
Repeat these steps for every preset that needs to be adjusted.

## Take the controller out of preset adjust mode

Press and hold the Scroll button and the Enter button at the same time until the lights on the controller flash (approx 5 seconds). The controller is now out of preset adjust mode.

If the controller was placed in preset adjust mode by flipping the DIP switch #1 on the controller to the DOWN position, then take the controller out of preset adjust mode by flipping DIP switch #1 to the UP position.

Exit programming mode (see page 8).



# Advanced Programming (continued)

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## Reset the SCI to Factory Defaults

The SCI may be reset to the factory default settings at any time by holding the CONF button and the Enter button pressed until the Power LED flutters (approximately 5 seconds).



Resetting the SCI will delete all programming information that was stored in the SCI when the device was installed. The factory defaults will set the SCI device count to 1, the SCI device address to 1, the SCI load type to LIGHTS and reset all the SCI inputs to Option A.



If the SCI is installed as part of a larger system comprising multiple SCI devices, the SCI that has been reset should be reprogrammed immediately otherwise it might interfere with the operation of the other SCI devices in the system.

# Troubleshooting

Symptom	Possible Cause(s)	Solution
The unit does not power up (the power LED does not light up).	Power is OFF.	Verify that the transformer supplied is plugged into the wall socket as well as into the unit.
The Input LEDs on the SCI do not flutter in response to an input closure.	The SCI is in programming mode.	Take the SCI out of programming mode.
	The input contact closures are wired incorrectly.	Check wiring of input contact closures.
The lights do not change levels when an input closure is applied or Sivoia QED controllable window treatment, AC motorized window treatment, or AC motorized projection screen does not respond.	The SCI is not addressed to the controller.	Address the SCI to the controller.
	The SCI is set up with the wrong load type.	Change the load type to the right setting on the SCI and then address the SCI to the controller.
	The controller is in program mode.	Take the controller out of program mode.
	The controller is in preset adjust mode.	Take the controller out of preset adjust mode.
The controlled light, Sivoia QED controllable window treatment, AC motorized window treatment, or AC motorized projection screen does not respond to rapid input closures.	The SCI is setup up as one device in a multi-device setup so consecutive input closures might not be properly spaced apart in time.	The minimum delay between two consecutive input closure should be 0.5 seconds x number of devices in the system. Wait for the designated timeout period before applying a second input closure.
The Status LED is fluttering continuously.	The SCI should be reset.	Reset the SCI.
Multiple SCI devices are connected in parallel to the same contact closure generating source (e.g. a timeclock). Some or all of the loads controlled by this system of multiple SCI devices do not respond to the input closure, consistently.	Two or more SCI devices are programmed with the same SCI device address.	Program every SCI devices in the system with a unique SCI address.
	The SCI is farther than 35 ft. (10.7 m) from the controller.	Relocate the SCI or the controller so that they are within 35 ft. (10.7 m) of each other.
All the LEDs on the unit come on and with the exception of the power LED, blink slowly.	The unit has inadvertently entered a test mode.	Cycle power to the unit.

# Contact Information Warranty

Internet: [www.lutron.com](http://www.lutron.com)  
E-mail: [product@lutron.com](mailto:product@lutron.com)

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Singapore: 800.120.4491  
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## **Lutron Electronics Co., Inc. One Year Limited Warranty**

For a period of one year from the date of purchase, and subject to the exclusions and restrictions described below, Lutron warrants each new unit to be free from manufacturing defects. Lutron will, at its option, either repair the defective unit or issue a credit equal to the purchase price of the defective unit to the Customer against the purchase price of comparable replacement part purchased from Lutron. Replacements for the unit provided by Lutron or, at its sole discretion, an approved vendor may be new, used, repaired, reconditioned, and/or made by a different manufacturer.

If the unit is commissioned by Lutron or a Lutron approved third party as part of a Lutron commissioned lighting control system, the term of this warranty will be extended, and any credits against the cost of replacement parts will be prorated, in accordance with the warranty issued with the commissioned system, except that the term of the unit's warranty term will be measured from the date of its commissioning.

### **EXCLUSIONS AND RESTRICTIONS**

This Warranty does not cover, and Lutron and its suppliers are not responsible for:

1. Damage, malfunction or inoperability diagnosed by Lutron or a Lutron approved third party as caused by normal wear and tear, abuse, misuse, incorrect installation, neglect, accident, interference or environmental factors, such as (a) use of incorrect line voltages, fuses or circuit breakers; (b) failure to install, maintain and operate the unit pursuant to the operating instructions provided by Lutron and the applicable provisions of the National Electrical Code and of the Safety Standards of Underwriter's Laboratories; (c) use of incompatible devices or accessories; (d) improper or insufficient ventilation; (e) unauthorized repairs or adjustments; (f) vandalism; or (g) an act of God, such as fire, lightning, flooding, tornado, earthquake, hurricane or other problems beyond Lutron's control.
2. On-site labor costs to diagnose issues with, and to remove, repair, replace, adjust, reinstall and/or reprogram the unit or any of its components.
3. Equipment and parts external to the unit, including those sold or supplied by Lutron (which may be covered by a separate warranty).
4. The cost of repairing or replacing other property that is damaged when the unit does not work properly, even if the damage was caused by the unit.

EXCEPT AS EXPRESSLY PROVIDED IN THIS WARRANTY, THERE ARE NO EXPRESS OR IMPLIED WARRANTIES OF ANY TYPE, INCLUDING ANY IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. LUTRON DOES NOT WARRANT THAT THE UNIT WILL OPERATE WITHOUT INTERRUPTION OR BE ERROR FREE.

NO LUTRON AGENT, EMPLOYEE OR REPRESENTATIVE HAS ANY AUTHORITY TO BIND LUTRON TO ANY AFFIRMATION, REPRESENTATION OR WARRANTY CONCERNING THE UNIT. UNLESS AN AFFIRMATION, REPRESENTATION OR WARRANTY MADE BY AN AGENT, EMPLOYEE OR REPRESENTATIVE IS SPECIFICALLY INCLUDED HEREIN, OR IN STANDARD PRINTED MATERIALS PROVIDED BY LUTRON, IT DOES NOT FORM A PART OF THE BASIS OF ANY BARGAIN BETWEEN LUTRON AND CUSTOMER AND WILL NOT IN ANY WAY BE ENFORCEABLE BY CUSTOMER.

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### **TO MAKE A WARRANTY CLAIM**

To make a warranty claim, promptly notify Lutron within the warranty period described above by calling the Lutron Technical Support Center at (800) 523-9466. Lutron, in its sole discretion, will determine what action, if any, is required under this warranty. To better enable Lutron to address a warranty claim, have the unit's serial and model numbers available when making the call. If Lutron, in its sole discretion, determines that an on-site visit or other remedial action is necessary, Lutron may send a Lutron Services Co. representative or coordinate the dispatch of a representative from a Lutron approved vendor to Customer's site, and/or coordinate a warranty service call between Customer and a Lutron approved vendor.

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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