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LUTRON UA-CS-LX Legacy Panel Interface



UA-CS-LX Installation Instructions

NOTE: The legacy panel interface is one component of a total system upgrade. Before modifying the existing system, please contact your local Lutron sales representative to confirm site readiness and system upgrade schedule.

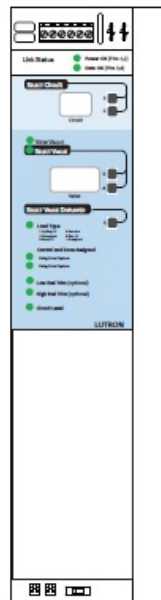
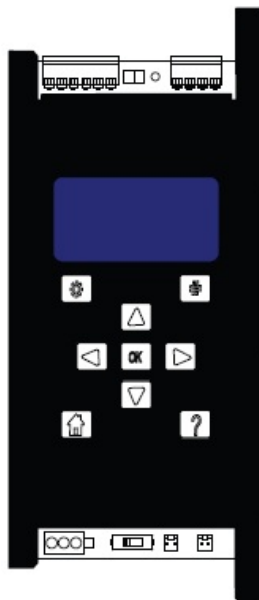
Installation varies based on the type of controller that is being replaced. After identifying the existing controller type, follow the applicable instruction procedure below. Use the Athena programming software to configure and commission the legacy panel interface after installation.

Please contact your local Lutron sales representative or system sales engineer for considerations when upgrading an existing system to Athena with the legacy panel interface.

Find Your Current Product:

Click on the name or image of your existing product below to be taken to the instructions for replacement.

- LCP / XPS Controller Pages 4 – 7
- Original Circuit Selector Pages 8 – 12
- Circuit Selector II Pages 13 – 16



Additional Information:

Click on the links below to be taken to each section.

Overview

1: QS Link

Connects to the Athena processor for wired communication

- Only connect terminals “1”, “3”, and “4”
- Counts as one device towards the QS link device limit
- Each switch leg on the control links counts towards the switch leg limit for the QS link
- Refer to Lutron Specification Submittal P/N 369821 at www.lutron.com for system rules

2: Emergency Switch

Locally configures the panel type for emergency lighting

- : Normal, reports a power outage on SENSE terminal
- : Override/disable
- : Emergency, senses a power outage via SENSE terminal

3: LEDs

Provides feedback of the product status

- : Provides general feedback
- : Indicates QS link communication
- : Indicates device is receiving power
- Refer to the **Troubleshooting** section on page 18 for additional information

4: Control Links

Wired connection to GP cards and local control modules for switch leg control.

- Control LINK1 (left) and control LINK2 (right)

5: Emergency Sense

Emergency panel connection for emergency applications

- SENSE (“5” terminal): Normal (non-essential) power outage signal
 - Configured by the Emergency Switch
 - Maximum of 32 devices may be connected in parallel to one LUT-ELI
- Refer to Lutron Application Note #106 (P/N 048106) at www.lutron.com for details on emergency lighting applications

6: Power

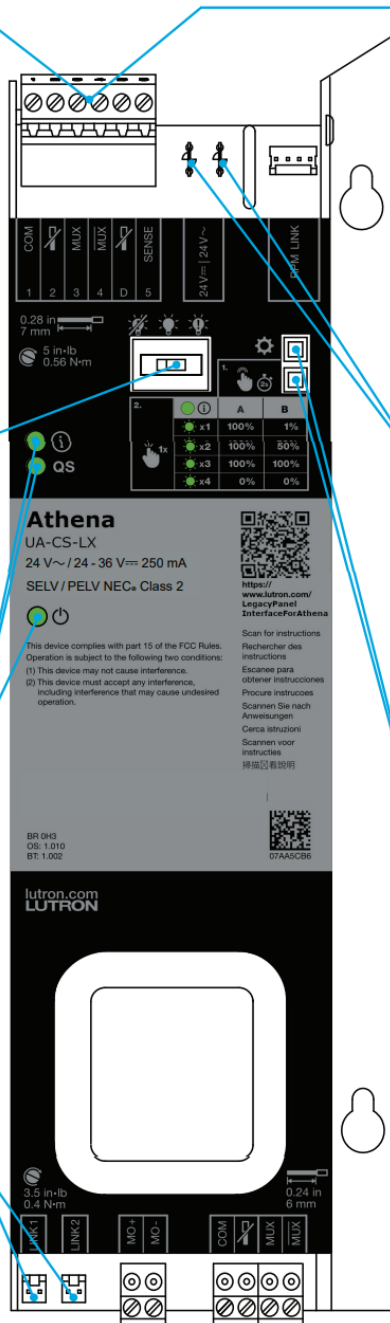
Device input power

- 24 V $\overline{\text{=}}$ or 24 V $\sim$
- Maximum input current is 250 mA
- Power terminals are polarity-free

7: Local Buttons

Local input for setup and panel function testing

- Refer to the **Local Operations** on page 17 for additional information



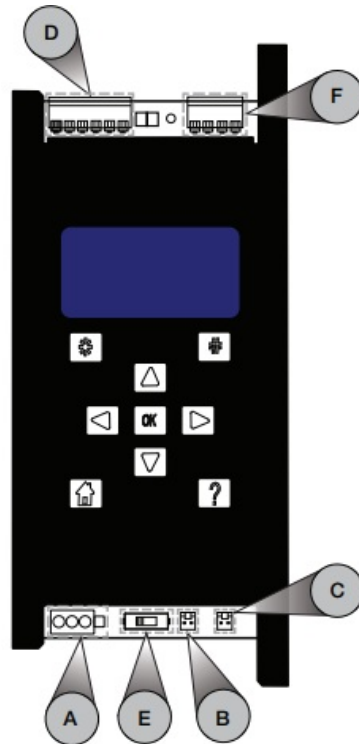
NOTE: The power LED should always be lit when power is applied. Do not use the LED as a panel power indicator. Always remove power from the panel before handling terminals or connectors.

NOTE: All wiring is NECR Class 2. Follow all applicable national and local codes for proper circuit separation and protection.

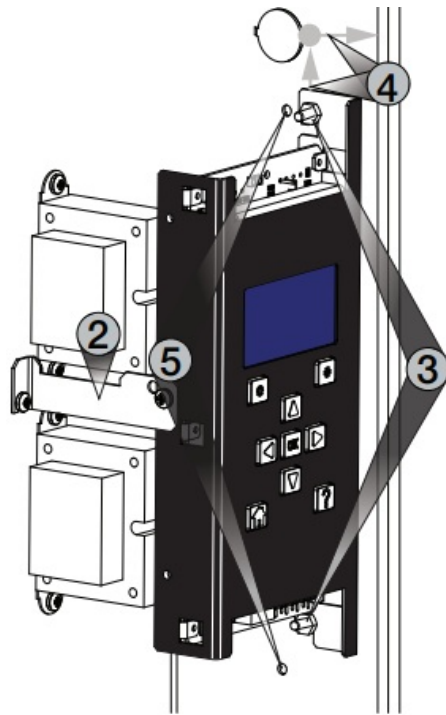
Wiring

- E Record the switch (S1) position. This will be used in step 9E.
- F Unplug the panel contact closure inputs connector from the existing controller.

NOTE: The legacy panel interface does not have an equivalent contact closure input. Please contact your local Lutron sales representative or system sales engineer for additional information.



2. Remove the left mounting bracket. The bracket and screws can be discarded.
3. Loosen and remove the two 11/32 in (9 mm) nuts and star washers from behind the controller.
NOTE: Save the nuts and star washers. They will be used again in step 5.
4. Remove the controller by sliding it upwards and then pulling it away from the front of the panel.
5. Move the screws / studs.



- A For surface mounted panels:

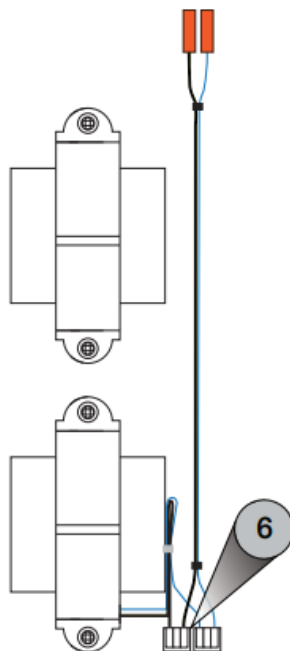
Move the screws / studs from step 3 to the legacy panel interface mounting holes.

Add the star washers and nuts that were removed in step 3, but do not fully tighten.

- B For recess mounted panels:

The screws / studs do not need to be moved. They will not interfere with the legacy panel interface. Continue to step 6.

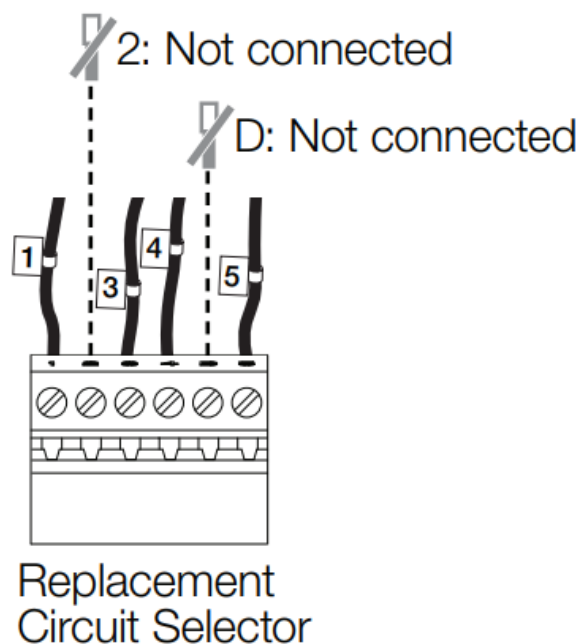
6. Lengthen the Class 2 / PELV 24 V~ wires by attaching the two-conductor extension wire (provided) with the lever connectors.



7. Remove and cap the “2” and “D” wires from the 6-pin communication terminal block

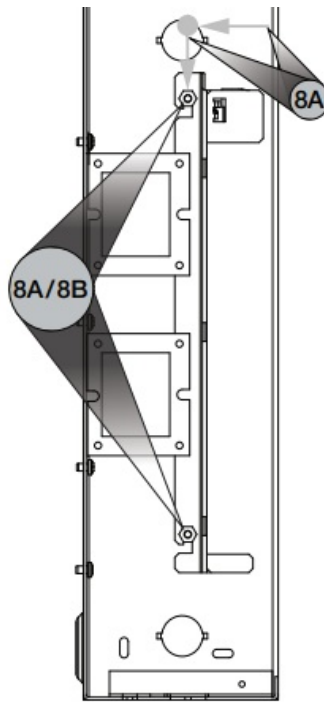
from step 1D. The “2” and “D” terminals on the 6-pin communication terminal block of the legacy panel interface should not be connected.

NOTE: If a link terminator (LT-1) is present between pins 3 and 4, remove and discard it.



8. Mount the legacy panel interface.

- A For surface-mounted panels: Place the legacy panel interface over the screws / studs with the loosened nuts and star washers from step 5A to the left of the mounting slots and then slide the legacy panel interface downward. Finish tightening both 1 1/32 in (9 mm) nuts and star washers from step 5A.
- B For recess-mounted panels:
Align the mounting slots of the legacy panel interface with the legacy panel interface mounting holes (identified in step 5A).
Drive the number 12 self-tapping screws (provided) into the legacy panel interface mounting holes.

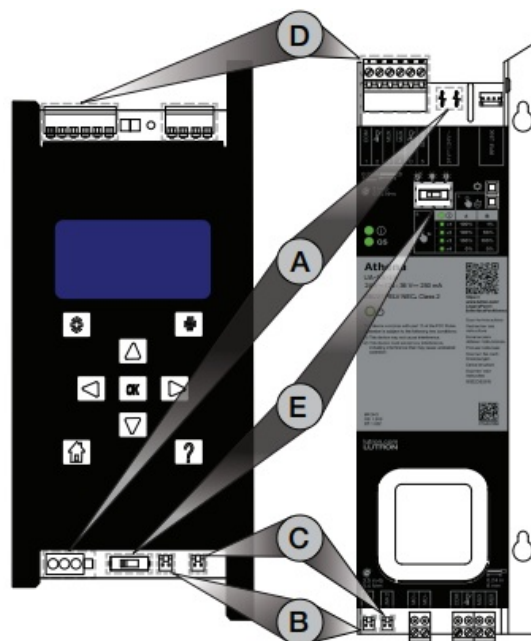


9. Connect the legacy panel interface to the existing wiring.

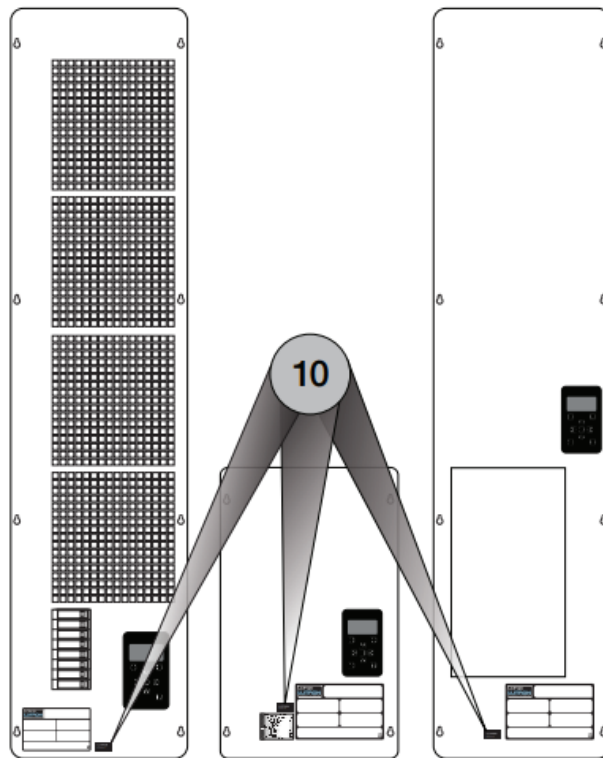
- A Plug the Class 2 / PELV 24 V~ wiring into the legacy panel interface.
- B Plug the LINK1 control link harness into the LINK1 header on of the legacy panel interface.

NOTE: If the existing controller had two control link harnesses, this will be the untagged control link harness.

- C If the existing controller had two control link harnesses, plug the tagged LINK2 control link harness into the LINK2 header on of the legacy panel interface.
- D Plug the 6-pin communication terminal block from the existing controller into the legacy panel interface.
- E Move the emergency switch to match the switch position that was recorded in step 1E.



10. Apply the Lutron UA-CS-LX label (provided) to the legacy panel cover near the existing labeling.



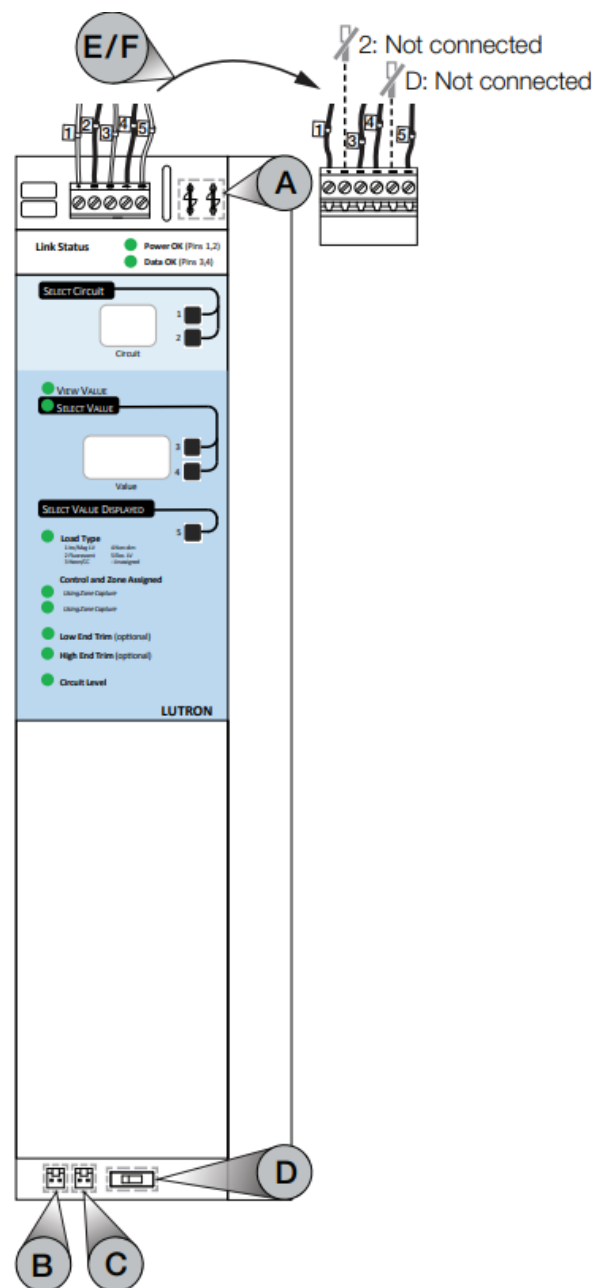
Original Circuit Selector

1. Remove the wiring for the existing circuit selector.
 - A Disconnect the Class 2 / PELV 24 V~ wiring.
 - B Remove the LINK1 control link harness from the bottom of the circuit selector.
 - C If the existing circuit selector has two control link harnesses:

Tag the LINK2 control link harness to ensure that the control links will be correctly attached to the legacy panel interface.

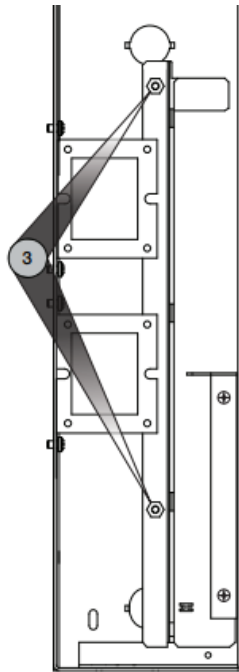
Remove the LINK2 control link harness from the existing circuit selector.
 - D Record the switch (S1) position. This will be used in step 8E.
 - E Wire the 6-pin communication terminal block.

Remove and cap the “2” control wire. The “2” terminal should not be connected to the 6-pin communication block of the legacy panel interface.
 - F One at a time, remove and insert each of the remaining control wires into the corresponding openings of the 6-pin communication terminal block (provided).
- NOTE:** Skip the “D” terminal.
- If a link terminator (LT-1) is present between pins 3 and 4, remove and discard it.

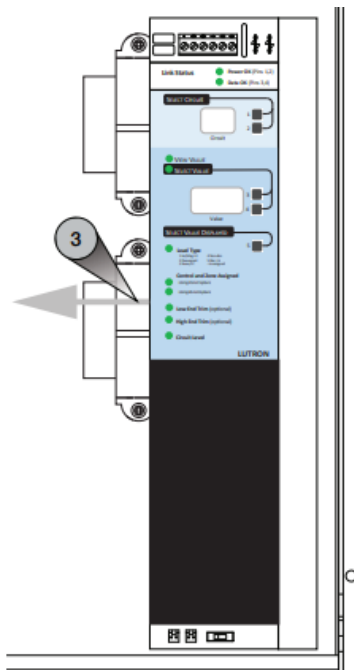


2. Loosen and remove the two nuts and star washers from behind the circuit selector by turning each counterclockwise using an 11/32 in (9 mm) nut driver. Save these fasteners to use when mounting the legacy panel interface.

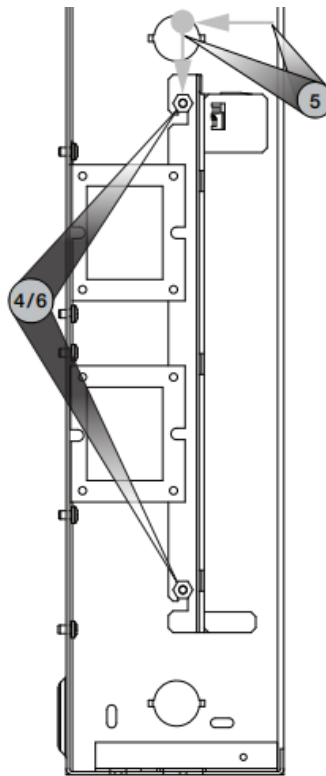
NOTE: When removing the nuts and star washers, use caution to not allow them to fall into the module. Metal debris in a module may cause damage.



3. Remove the circuit selector by pulling the device away from the side of the panel.



4. Replace the star washers and nuts that were removed in step 3, but do not fully tighten.
5. Mount the legacy panel interface by placing it over the screws / studs with the loose nuts and star washers from step 5 to the left of the mounting slots. Then slide the legacy panel interface downward.
6. Finish tightening both 11/32 in (9 mm) nuts and star washers that were replaced in step 5.

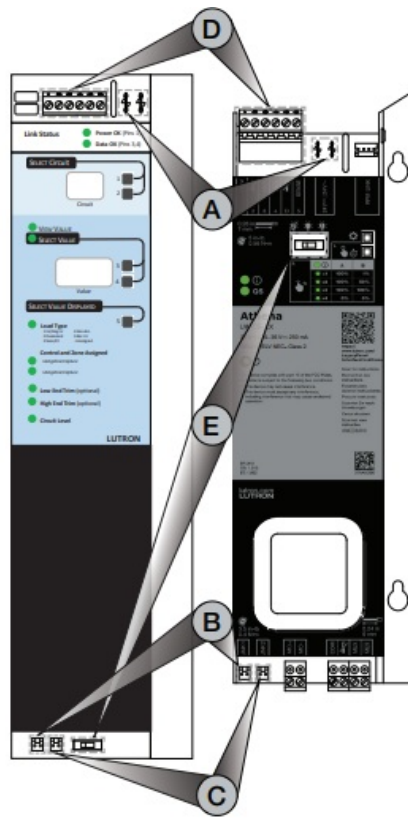


7. Connect the legacy panel interface to the existing wiring.

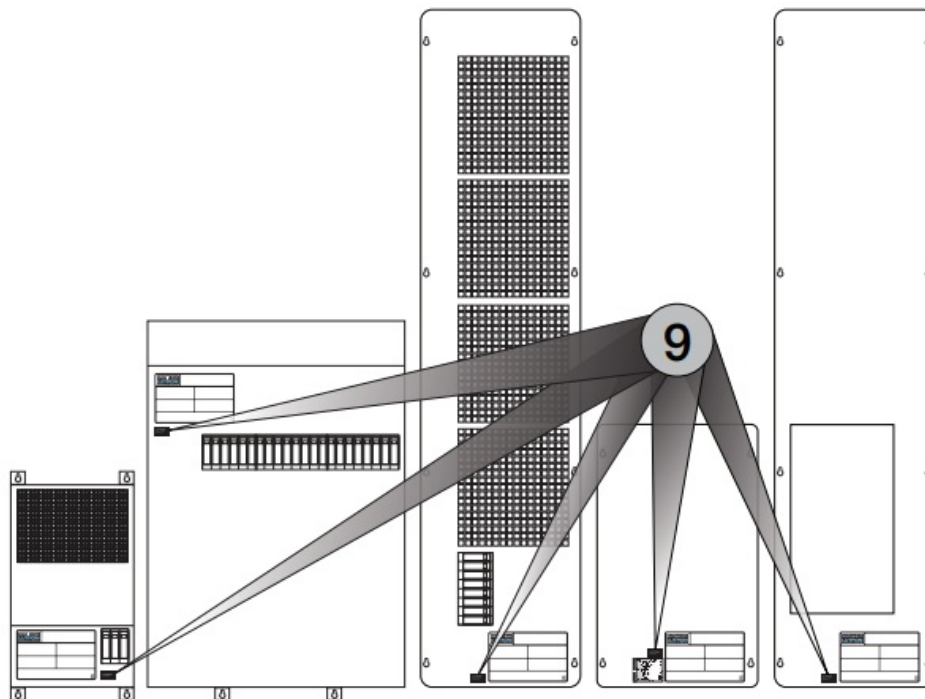
- A Plug the Class 2 / PELV 24 V~ wiring into the legacy panel interface.
- B Plug the LINK1 control link harness into the LINK1 header on the legacy panel interface.

NOTE: If the existing controller had two control link harnesses, this will be the untagged control link harness.

- C If the controller had two control link harnesses:
Plug the tagged LINK2 control link harness into the LINK2 header on the legacy panel interface.
- D Plug the 6-pin communication terminal block into the legacy panel.
- E Move the emergency switch to match the switch position that was recorded in step 1D.



8. Apply the Lutron UA-CS-LX label (provided) to the legacy panel interface cover near the existing labeling.



Circuit Selector II

WARNING: SHOCK HAZARD. May result in serious injury or death. Turn off power at circuit breaker before installing the unit.

NOTE: Before modifying the existing system, please contact your local Lutron sales

representative to confirm site readiness and system upgrade schedule.

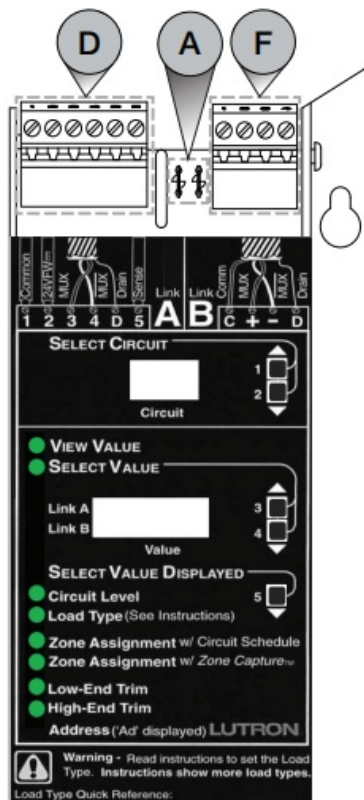
1. Remove the wiring for the existing circuit selector.

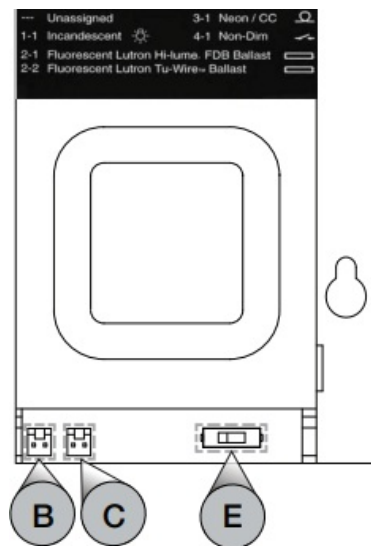
- A Disconnect the Class 2 / PELV 24 V~ wiring.
- B Remove the LINK1 control link harness from the bottom left of the circuit selector.
- C If the existing circuit selector has two control links:
- Tag the LINK2 control link harness to ensure that the control links will be correctly attached to the legacy panel interface.
- Remove the LINK2 control link harness from the existing circuit selector.
- D Unplug the 6-pin communication terminal block (Link A) from the existing circuit selector.
- E Record the switch (S1) position. This will be used in step 7E.
- F If present, unplug the Link B connector from the existing circuit selector.

NOTE: The legacy panel interface does not have an equivalent Link B input.

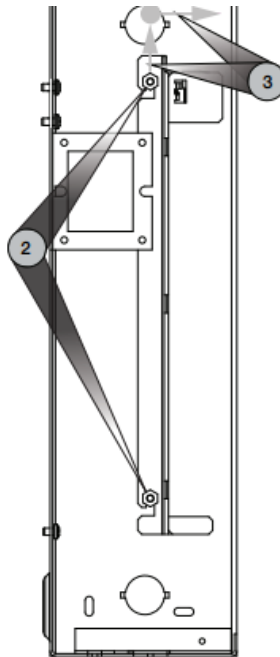
Please contact your local

Lutron sales representative or system sales engineer for additional information.

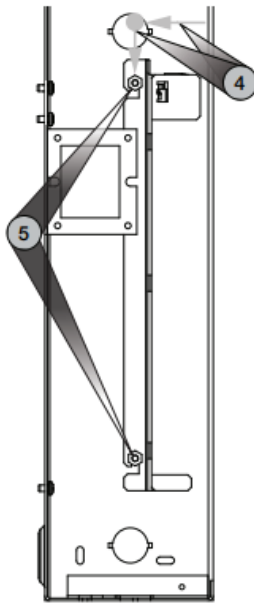




2. Without removing them from the screws / studs, loosen the two 11/32 in (9 mm) nuts behind the circuit selector.
3. Remove the circuit selector by sliding it upwards and then pulling it away from the front of the panel.

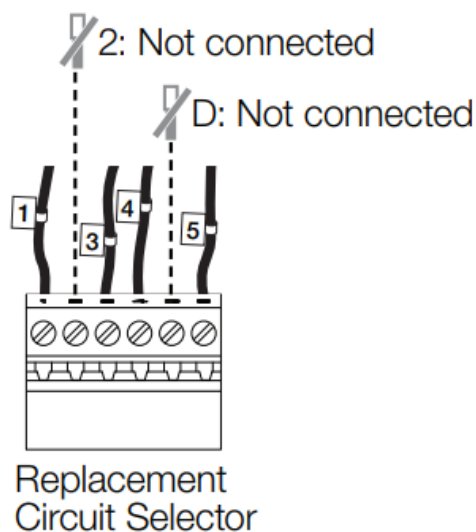


4. Mount the legacy panel interface by placing it over the screws / studs with the loose nuts and star washers from step 2 to the left of the mounting slots. Then slide the legacy panel interface downward.
5. Firmly tighten both 11/32 in (9 mm) nuts and star washers.



6. Remove and cap the “2” and “D” wires from the 6-pin communication terminal block from step 1D. The “2” and “D” terminals on the 6-pin communication terminal block of the legacy panel interface should not be connected.

NOTE: If a link terminator (LT-1) is present between pins 3 and 4, remove and discard it.



7. Connect the legacy panel interface to the existing wiring.

- A Plug the Class 2 / PELV 24 V~ wiring into the legacy panel interface.
- B Plug the LINK1 control link harness from the circuit selector into the LINK1 header on the legacy panel interface.

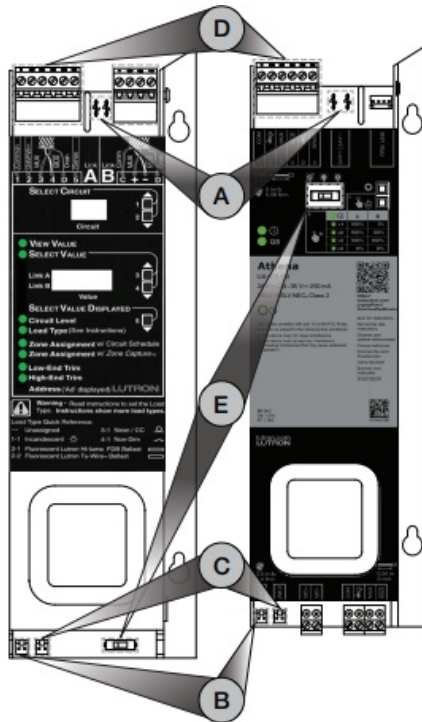
NOTE: If the existing controller had two control link harnesses, this will be the untagged control link harness.

- C If the circuit selector had two control link harnesses:
Plug the tagged LINK2 control link harness into the LINK2 header on the legacy panel interface.
- D Plug the 6-pin communication terminal block (Link A) from step 1D into the

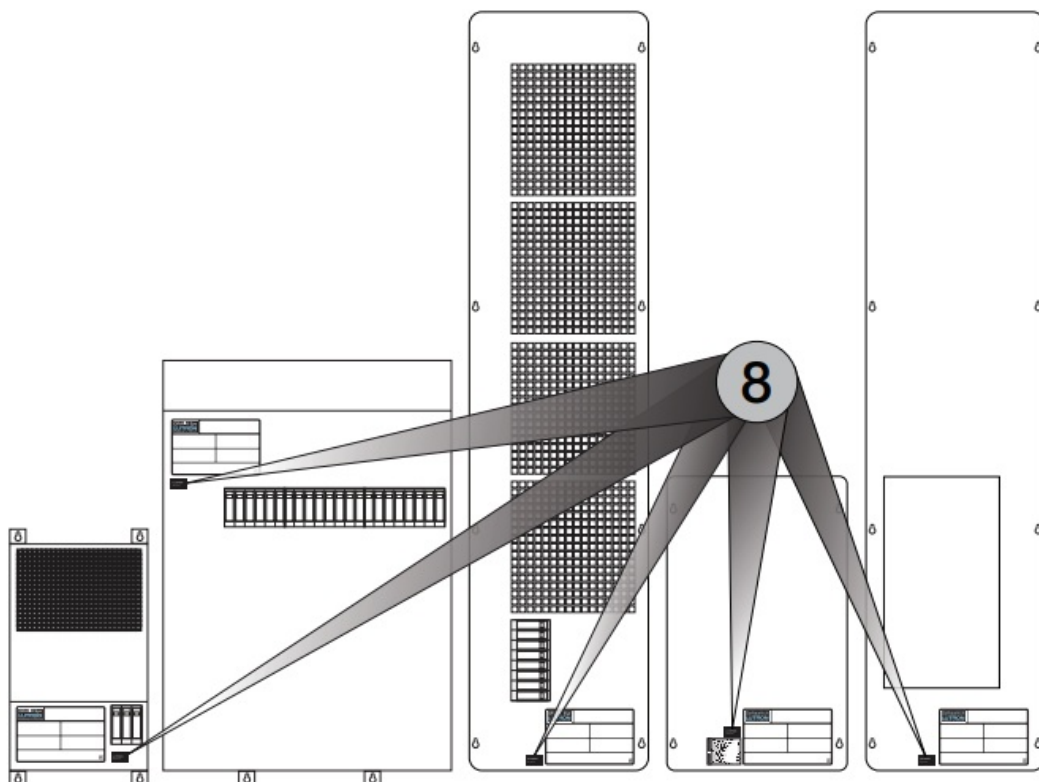
legacy panel interface.

NOTE: If a link terminator (LT-1) is present between pins 3 and 4, remove and discard it.

- E Move the emergency switch to match the switch position that was recorded in step 1E.



8. Apply the Lutron UA-CS-LX label (provided) to the legacy panel cover near the existing labeling.



Local Operations

Setup and programming of the legacy panel interface is done through the Athena programming software. The local buttons are intended for system activation and local panel control.

Control Link Baud Rates

Show Baud Rates

- Press the  button.
 - **Hi 1:** The QS LED will blink slowly (2 seconds on, then 2 seconds off)
 - **Hi 2:** The QS  and LED indicators will blink slowly (2 seconds on, then 2 seconds off)

Change Baud Rates

- Press and hold the  button for 2 seconds to enter baud rate selection mode. and QS LEDs will start blinking in an alternating pattern when the device has entered baud rate selection mode.
 - Press the  button to toggle the baud rate.
 - Press and hold the  button for 2 seconds to exit the local control mode.

NOTE: The device will exit baud rate selection mode if there is no local button interaction for 30 seconds. The locally set baud rate will be overridden if it does not match baud rate that is specified in the Athena programming software.

Override the Panel Switch Leg Outputs¹

- Press and hold the   button for 2 seconds to enter local load control mode  . and QS LEDs will start blinking in an alternating pattern when the device has entered local load control mode.
- Press the   button to cycle through the preset load levels. The number of LED blinks specifies the location in the load control cycle: 1, 2, 3, or 4.
- The preset cycle for non-configured and switchable switch legs is (1) 100%, (2) 100%, (3) 100%, and (4) 0%.

The preset cycle for configured dimming switch legs is (1) 1%, (2) 50%, (3) 100%, and (4) 0%.



- Press and hold the button to exit local load control mode.

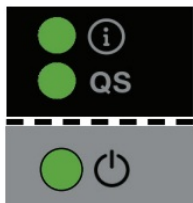
NOTE: The device will exit local load control mode if there is no local button interaction for 30 seconds.

Load Control Cycle	 Blinks	Light Level	
		A	B
1	1	100%	1%
2	2	100%	50%
3	3	100%	100%
4	4	0%	0%

Troubleshooting

Symptom	Additional Details	Action
	 LED: Off	Verify that there is voltage at the power terminal of the device.

Local buttons do not control the load(s).



Device can enter local load control mode.	• Verify the control link wiring. • Verify the control link baud rate(s). NOTE: The locally set baud rate will be overwritten by the baud rate configured in the system programming software. • Verify that the load(s) can be locally controlled. Motor loads should not be controlled locally. • Verify the dimming / switching module functionality. • Verify load(s) functionality.
 LED: Flashes 5 times every second (100 ms on and 100 ms off)	• Verify that the emergency switch position is correct. NOTE: The emergency switch will typically need to be in the same position as the emergency switch on the previous controller. • Verify the SENSE terminal wiring.
 LED: Flashes 2 times every second (250 ms on and 250 ms off)	• Verify the manual override wiring. • Contact Lutron Tech Support.
 LED and QS LED: Flashes 3 times every second (150 ms on and 150 ms off)	Device needs to be replaced. Contact Lutron Tech Support.

	 LED and QS LED: Flashes 5 times every second (100 ms on and 100 ms off)	Device needs to be replaced. Contact Lutron Tech Support.
Local load control can only turn the load(s) on and off.	None	• Verify that the load(s) can be dimmed by local load control. Only dimmable loads that have been configured in the system programming software can be dimmed by local load control. • Verify the dimming / switching module functionality. • Verify load(s) functionality.
Unable to activate the device.	None	Verify QS Link wiring.
The system cannot control the load(s).	QS LED: On	• Verify that the load(s) is correctly configured in the system programming software and that they have been transferred to the device. • Verify that the baud rate is correctly configured in the system programming software. • Verify the dimming / switching module addresses in the system software match the addresses on the modules. • Verify that the load(s) can be locally controlled by the device.

	QS LED: Off	• Verify the QS link wiring. • Verify that the load(s) can be locally controlled by the device.
The system can only turn the load(s) on and off.	None	Confirm that the GP card(s) / module(s) is correctly configured in the system programming software and that they have been transferred to the device.

Contact Us

Warranty

For warranty information, please visit

www.lutron.com/TechnicalDocumentLibrary/3601201A_Commercial_Limited_Warranty.pdf

FCC / IC

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation.

Modifications not expressly approved by Lutron Electronics Co., Inc. could void the user's authority to operate this equipment.

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 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

This Class B digital apparatus complies with Canadian ICES-003. The Lutron logo, Lutron, and Athena are trademarks or registered trademarks of Lutron Electronics Co., Inc. in the US and / or other countries. All product names, logos, and brands are property of their respective owners.

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- **Taiwan:** 00.801.137.737
- **Thailand:** 001.800.120.665853
- **Other Countries:** +65.6220.4666

FAQ

- **Q: Can the legacy panel interface be powered by 24 V-?**
A: Yes, the legacy panel interface can also be powered by 24 V- in addition to 24 V~.
- **Q: What should I do if my existing controller has two control link harnesses?**
A: If the existing controller has two control link harnesses, follow specific instructions based on the controller type and consult with a local Lutron sales representative if needed.

Documents / Resources

	LUTRON UA-CS-LX Legacy Panel Interface [pdf] Datasheet UA-CS-LX, LT-1, UA-CS-LX Legacy Panel Interface, UA-CS-LX, Legacy Panel Interface, Panel Interface, Interface
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References

- [User Manual](#)

◆ Interface, Legacy Panel Interface, LT-1, Lutron, Panel Interface, UA-CS-LX, UA-CS-LX Legacy Panel

■ Lutron Interface

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