

Sivoia QED®
Installation
Instructions

**D105 Drapery
System**



Sivoia QED® | D105 Drapery System

Installation Instructions

Please read before installing

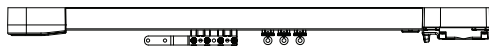
Tools required:

Tape Measure	1/8 in Straight Blade Screwdriver
Wire Cutter/Stripper	Level
Pliers	Power Drill, Drill Bits, Screwdriver Attachments
#2 Phillips Screwdriver	*Mounting Screws
#1 Phillips Screwdriver	

*NOTE: Wallmounting hardware is not included due to the wide variety of wall materials. Installer should determine the appropriate mounting hardware for their specific needs. Lutron recommends the use of #8 mounting hardware.

Drapery track carton contents:

Single Track System – (right draw shown)

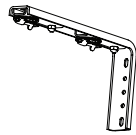


Dual, Tandem and Dual Tandem systems will include additional track(s) and Electronic Drive Units

Wall mount “L” brackets with cam-lock (quantity varies with system width)



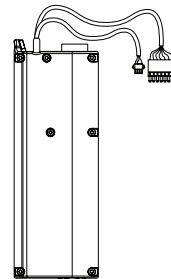
Single & Tandem Bracket



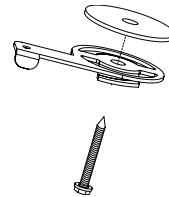
Dual & Dual Tandem Bracket

OR

Electronic Drive Unit (EDU)



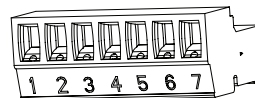
ceiling mount cam-locks (quantity varies with system width)



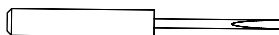
one hook eye (split draw only)



(1) 7 Pin terminal block



(1) Screwdriver



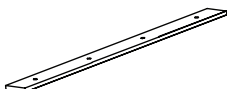
(1) 4 in (102 mm) cable tie



(1) 7 in (178 mm) cable tie



Additional contents with splice option:



Splicing Bar

3/32 in Allen Key

Sivoia QED® | Drapery System

Installation Instructions (continued)



WARNING: Risk of death or serious injury due to electric shock, disconnect power before wiring and follow all installation instructions.



CAUTION: Risk of bodily injury due to falling objects, follow all mounting instructions.



CAUTION: Risk of bodily injury due to unintended operation, do not connect the Electronic Drive Unit (EDU) to controls or power until the track and EDU have been securely mounted per the installation instructions.

NOTICE For systems equipped with optional track splice, refer to splice assembly instructions labels located on the track.

Notes:

- The *Sivoia QED* drapery system has a maximum continuous rated and operating time of 8 minutes. After 8 minutes of continuous operation the system will pause for an 18 minute rest.
- Before installation, remove any unnecessary cords and disable any equipment not needed for powered operation.
- Lutron drapery systems are intended for use with only Lutron drapery track hardware, controls, and power supplies.
- **Codes:** Install in accordance with all local and national electrical codes.
- **Environment:** Ambient operating temperature: 32 °F - 104 °F (0 °C - 40 °C), 0 - 90% humidity, non-condensing. Indoor use only.
- There must be a clearance of at least 1.3 ft (0.4 m) between the moving drapery and any movable object.

1 Mounting the Drapery Track

Wall Mounting

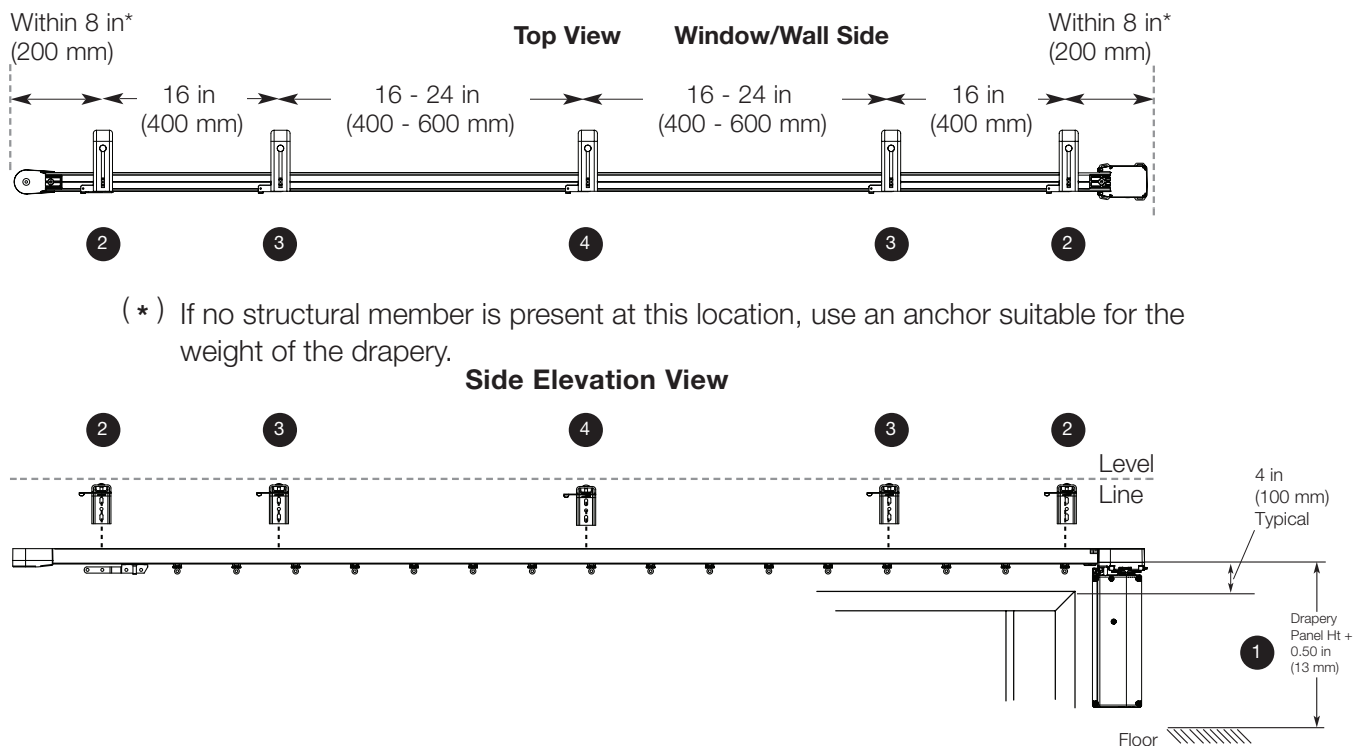
Note: The drapery track must be level to operate properly, and brackets must be vertically and horizontally aligned and all screws must be securely fastened to a structural member.

NOTICE If the track is shipped with the splice option, preassemble it per the splice instructions located on the track before proceeding.

1.1

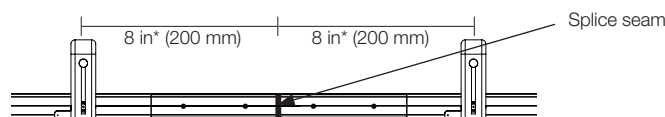
Mount the drapery track to the wall using the wall mount “L” brackets. Mount the “L” brackets using the spacing guidelines below.

- 1 Recommended track mounting height: Mount the bracket such that the bottom of the track is 0.5 in (13 mm) + drapery panel height from the floor. This will maintain the recommended minimum clearance of 0.5 in (13 mm) between the bottom of the drapes and the floor.
- 2 “L” brackets mounted at the ends of the track should be positioned within 8 in (203 mm) from each end. *
- 3 On both sides of the track, starting from the end “L” bracket, position the next “L” bracket a distance of 16 in (400 mm) inward. *
- 4 Space the remaining “L” brackets 16-24 in (400-600 mm) apart.



(*) If no structural member is present at this location, use an anchor suitable for the weight of the drapery.

NOTICE Additional mounting requirements for spliced track



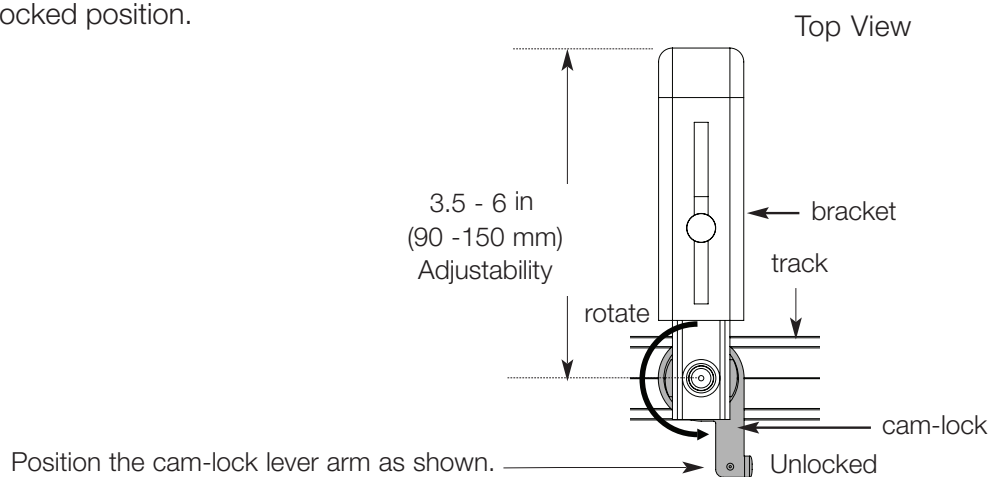
If track is spliced, mount the brackets within 8 in (200 mm) of either side of the splice seam as shown *

1 Mounting the Drapery Track (continued)

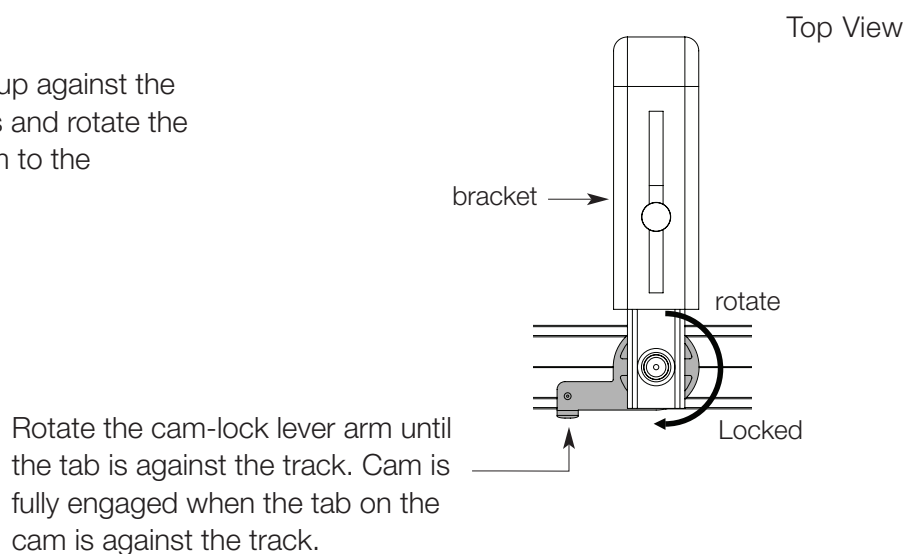
Wall Mounting (continued)

1.2 Mount the track to the brackets.

Position all of the cam-lock lever arms to the unlocked position.



1.3 Position the track up against the cam-lock brackets and rotate the cam-lock lever arm to the locked position.



Note: Cam-lock must be fully engaged. If cam-lock does not line up with track, re-adjust bracket.

1

Mounting the Drapery Track (continued)

Ceiling Mounting

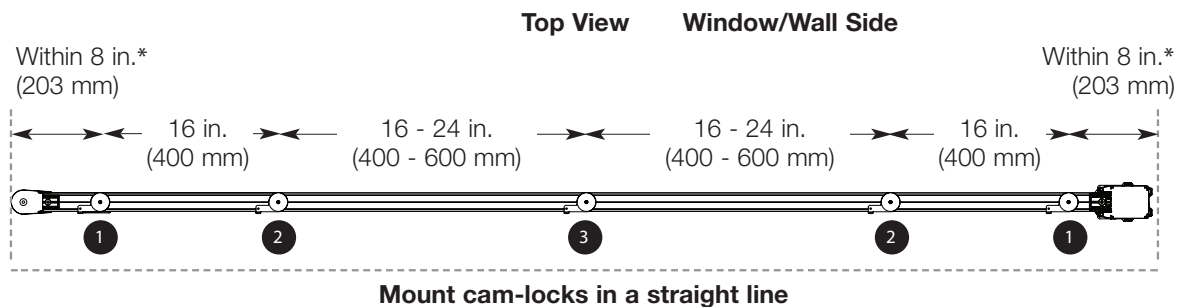
Note: All screws must be securely fastened to a structural member. Tighten the screws to ensure cam-lock does not spin loose.

NOTICE If the track is shipped with the splice option, preassemble it per the splice instructions located on the track before proceeding.

1.4

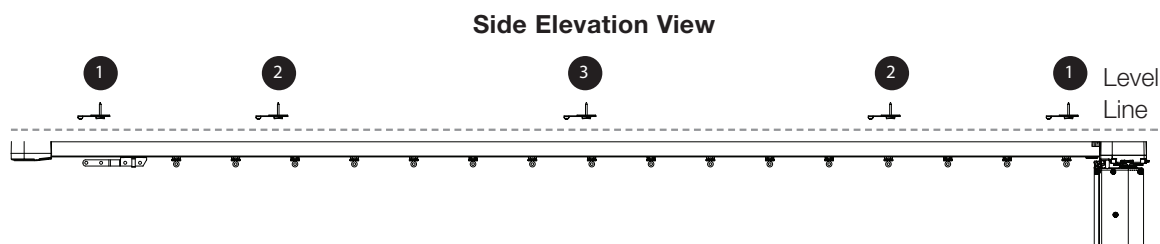
Mount the drapery track to the ceiling using ceiling mount cam-locks. Mount the cam-locks using the spacing guidelines shown below.

- 1 Cam-locks mounted at the ends of the track should be positioned within 8 in (203 mm) from each end. *
- 2 On both sides of the track, starting from the end cam-lock, position the next cam-lock 16 in (400 mm) inward. *
- 3 Space the remaining cam-locks 16-24 in (400-600 mm) apart.

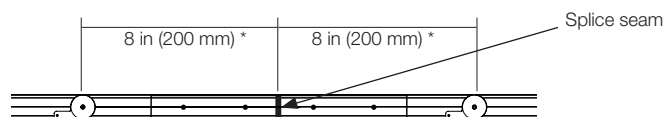


(*) If no structural member is present at this location, use an anchor suitable for the weight of the drapery.

Note: The ceiling mount cam-locks should be mounted in a straight and level line. If the contour of the ceiling is not straight and level, use shims (not included) between the cam-lock bracket and the ceiling to compensate for the irregularities.



NOTICE Additional mounting requirements for splice track

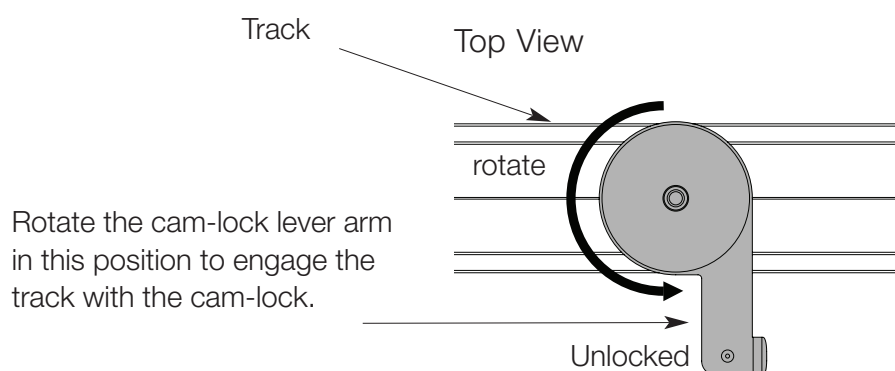


If track is spliced, mount the brackets within 8 in (200 mm) of either side of the splice seam as shown. *

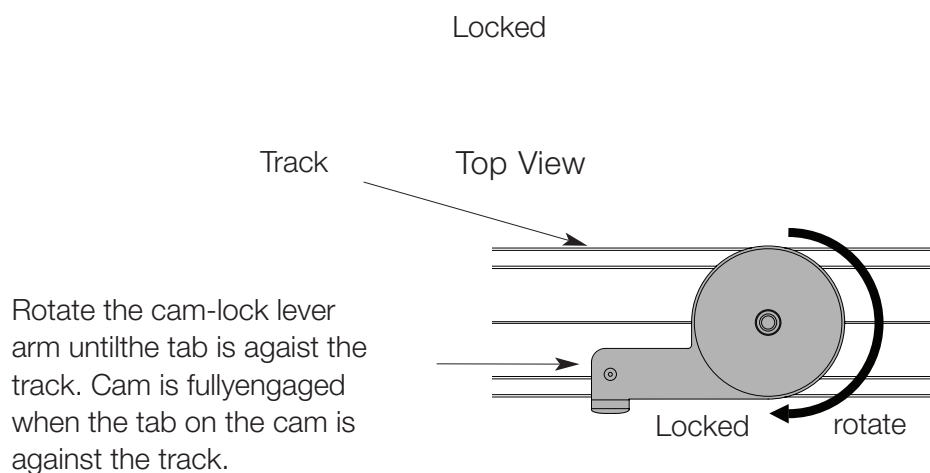
1 Mounting the Drapery Track (continued)

Ceiling Mounting (continued)

- 1.5 Mount the track to the cam-locks.
Position all the cam-lock lever arms
to the unlocked position.



- 1.6 Position the track up against the
cam-locks and rotate the cam-lock
lever arm to the locked position.

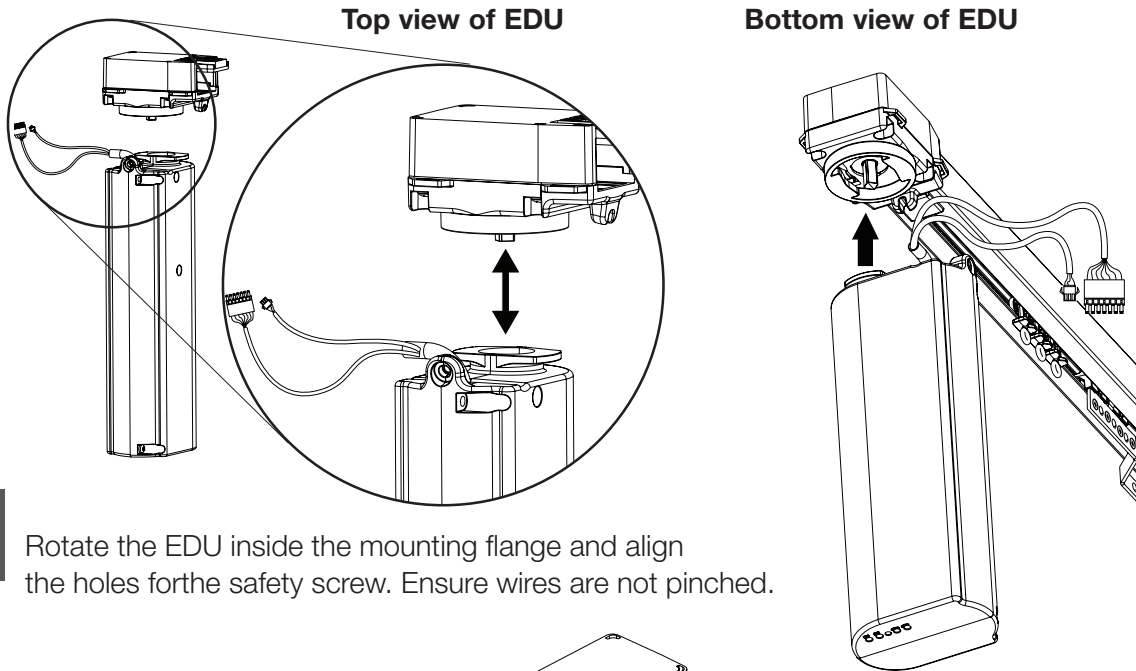


2

Installing Electronic Drive Unit

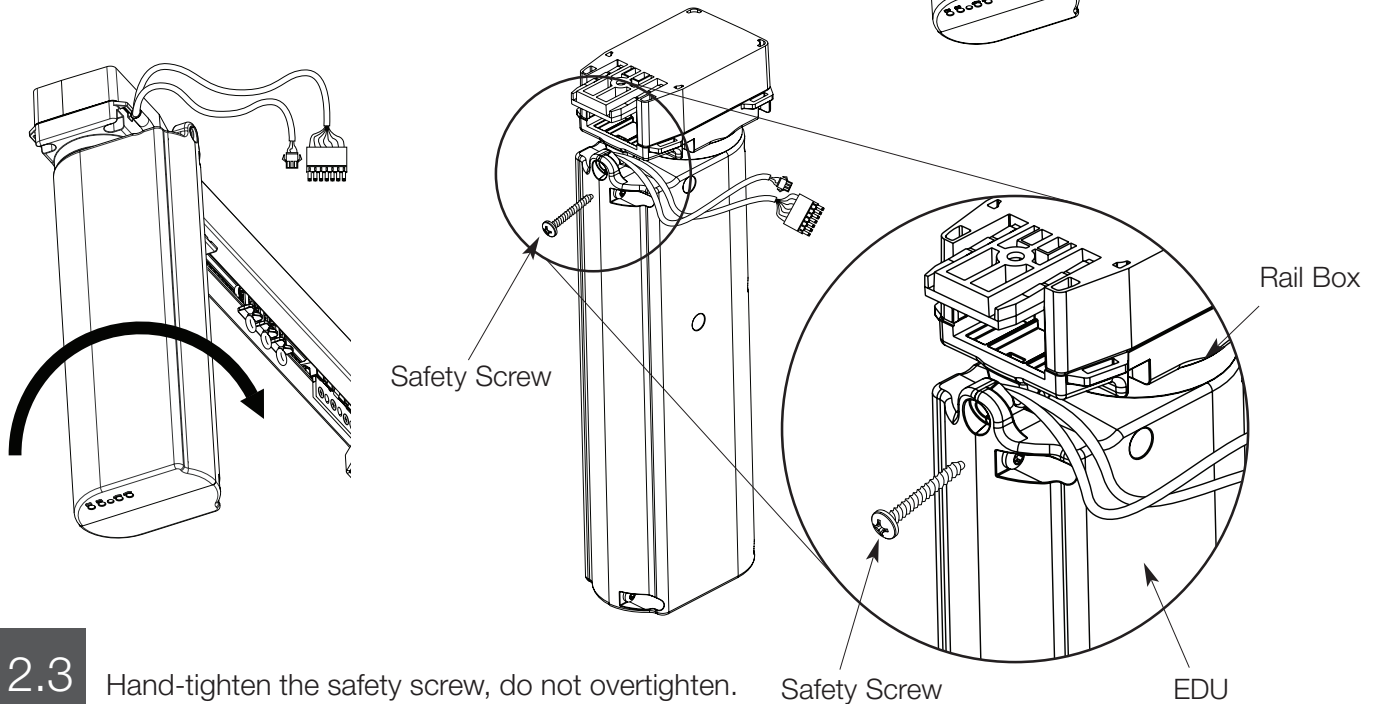
2.1

Insert EDU mounting flange into the rail box by aligning the mounting tabs and drive shafts. Push the EDU into the railbox until the mounting tabs are fully inserted.



2.2

Rotate the EDU inside the mounting flange and align the holes for the safety screw. Ensure wires are not pinched.



2.3

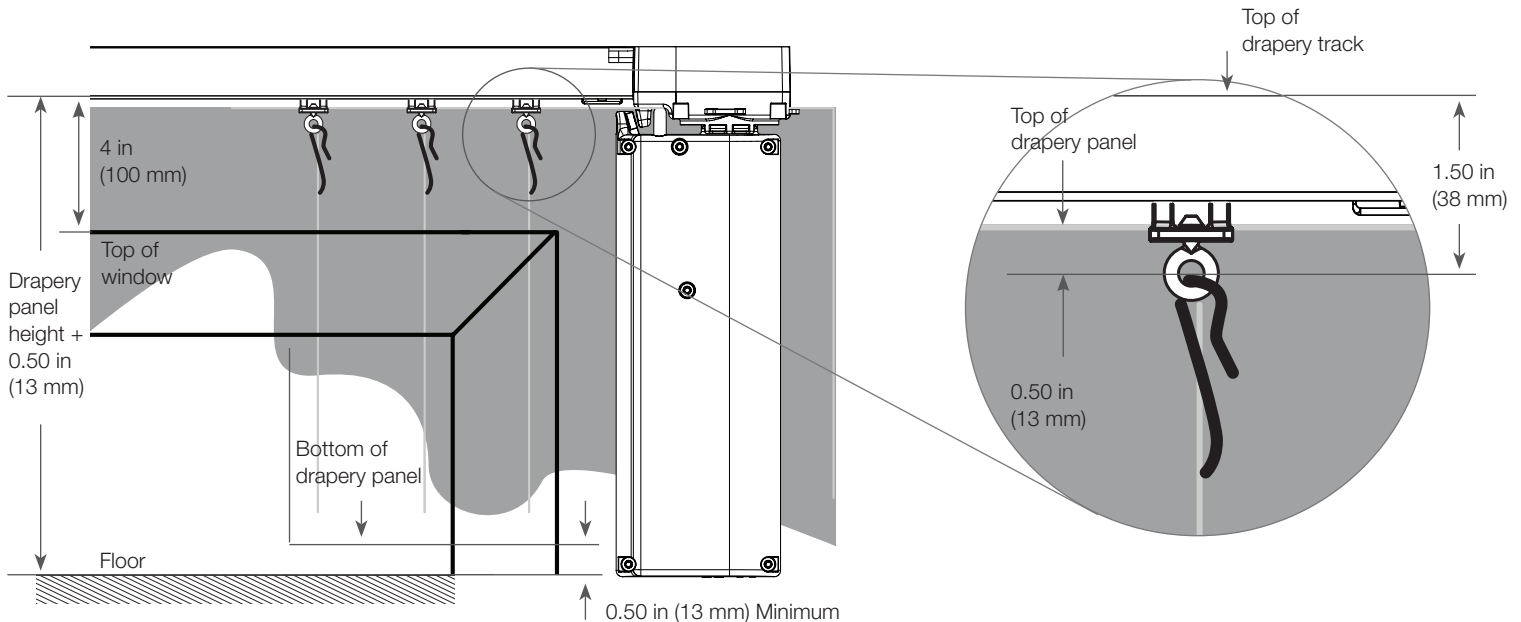
Hand-tighten the safety screw, do not overtighten.

Safety Screw

EDU

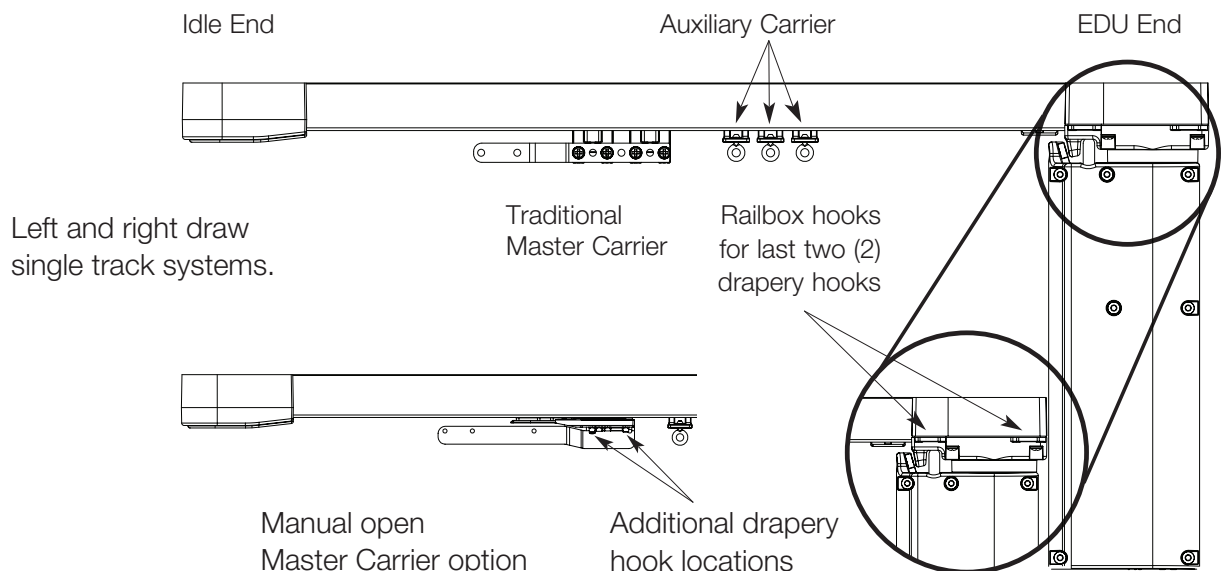
3 Hanging Drapery Fabric-Pinch Pleat

- 3.1** Drapes are typically sized so the bottom of the drapery track is located 4 in (101 mm) above the window casing. Location may need to be adjusted to accommodate the specific drapery size and application. A drapery hook setting of 0.5 in (13 mm) from top of drape to top of hook should be used (hooks not included). This locates the drapes just below the track and prevents it from rubbing on the track.



3.2 Hanging fabric-Left and right draw systems

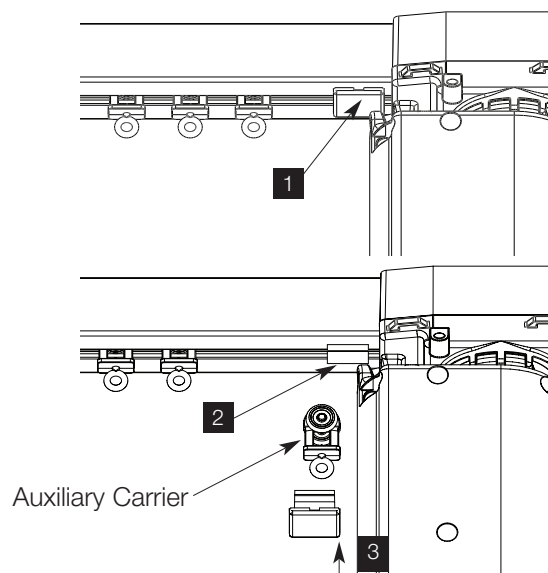
Attach drapery to the drapery track starting with the Master Carrier, attaching the last two hooks of the drapery to the railbox hooks. Remove any unused auxiliary carriers as shown on the following page.



3 Hanging Drapery Fabric-Pinch Pleat (continued)

3.3 To add or remove auxiliary carriers-Left and right draw systems:

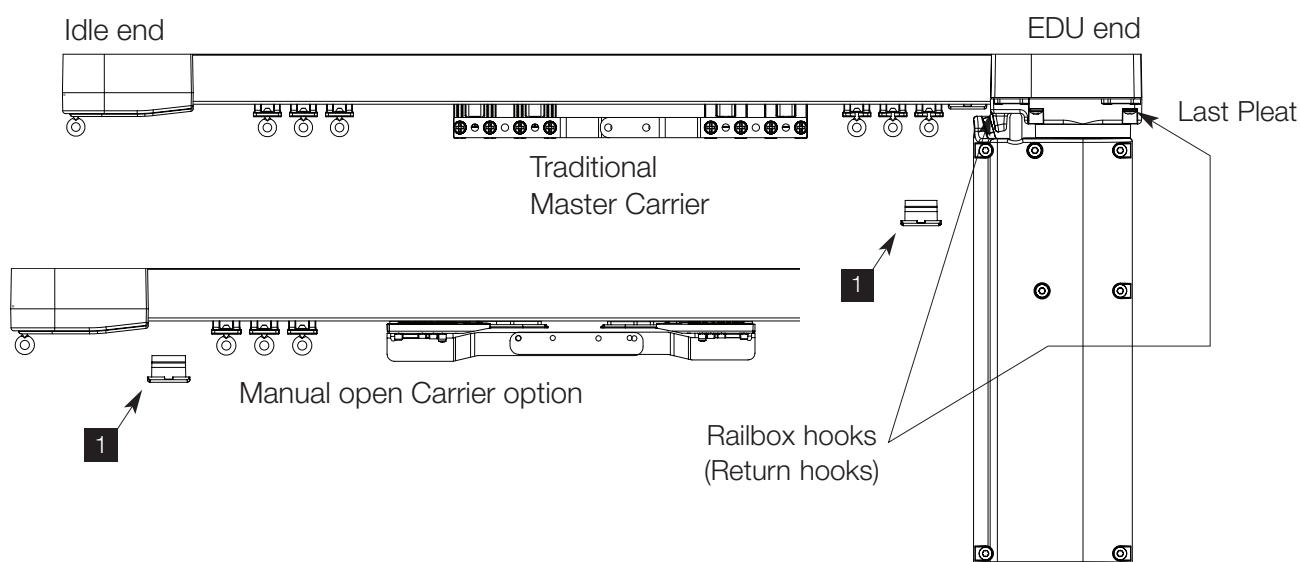
- 1 Remove square plug on the EDU end of the track, using a flat blade screw driver.
- 2 Insert or remove auxiliary carriers through the square hole in the track until the desired number of carriers are installed.
- 3 Replace the plastic square plug by pushing it into the square hole until it snaps into place.



3.4 Hanging fabric-Center draw systems

EDU Side - Attach drapery to the drapery track starting with the Master Carrier. Finish by attaching the last two hooks of the drapery to the railbox hooks.

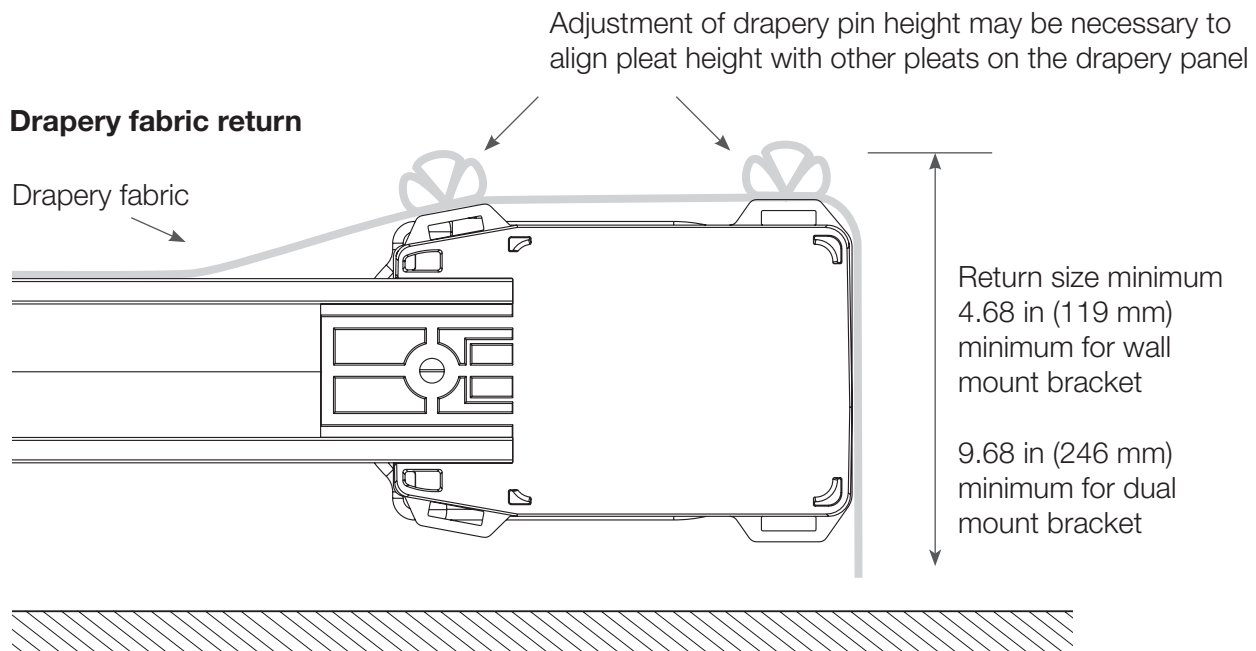
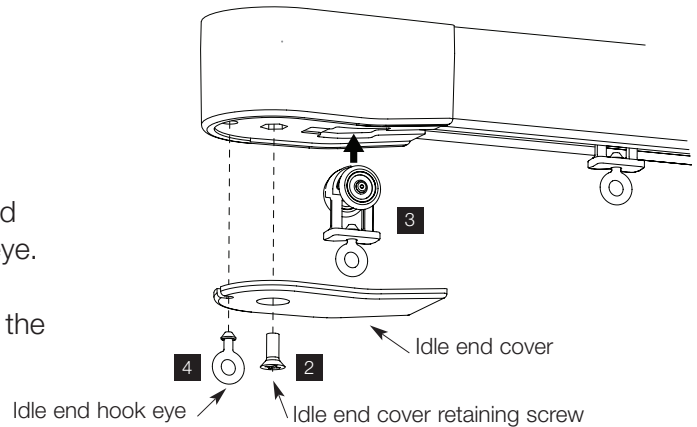
Idler Side - Attach drapery to the drapery track starting with the Master Carrier. Finish by attaching the last hook of the drapery to the idle end hook. Remove any unused auxiliary carriers as shown on the following page.



3.5

To add or remove auxiliary carriers-Center draw systems:

- 1** Follow the directions on page 9 for EDU end plug removal, and installation of the auxiliary carriers.
Note: Use same procedure on idler end with manual open carrier option.
- 2** Remove the screw that retains the idle end cover. Remove idle end cover and hook eye.
- 3** Insert or remove auxiliary carriers through the square hole in the idle end cap until the desired number of carriers is installed.
- 4** Install idle end hook eye and replace the idle end cover using the screw removed in step 2.



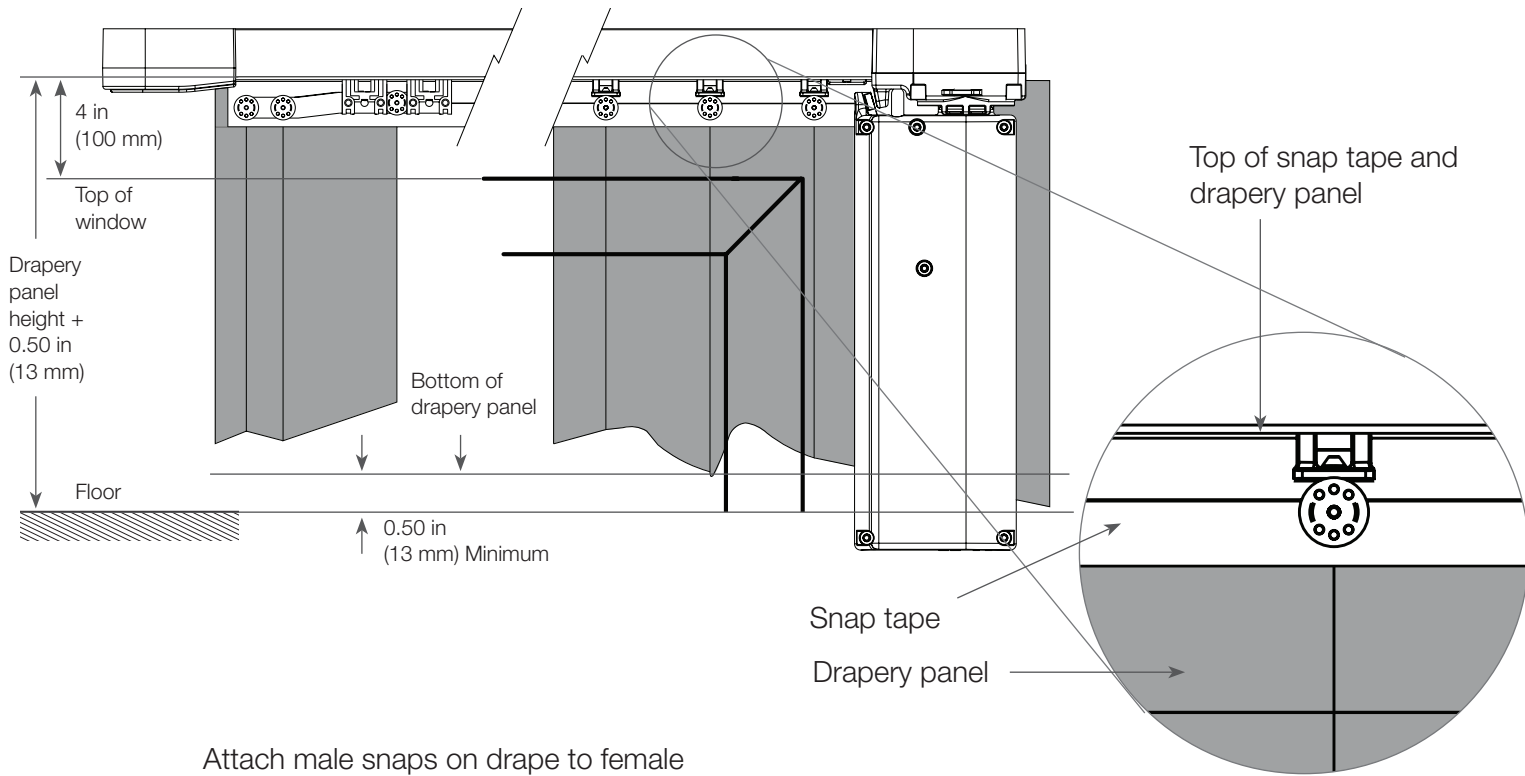
Note: For best system performance, we recommend maintaining a minimum ground clearance of 0.5 inches (13 mm) (from bottom of drape to floor)

4

Hanging Drapery Fabric-Ripplefold

4.1

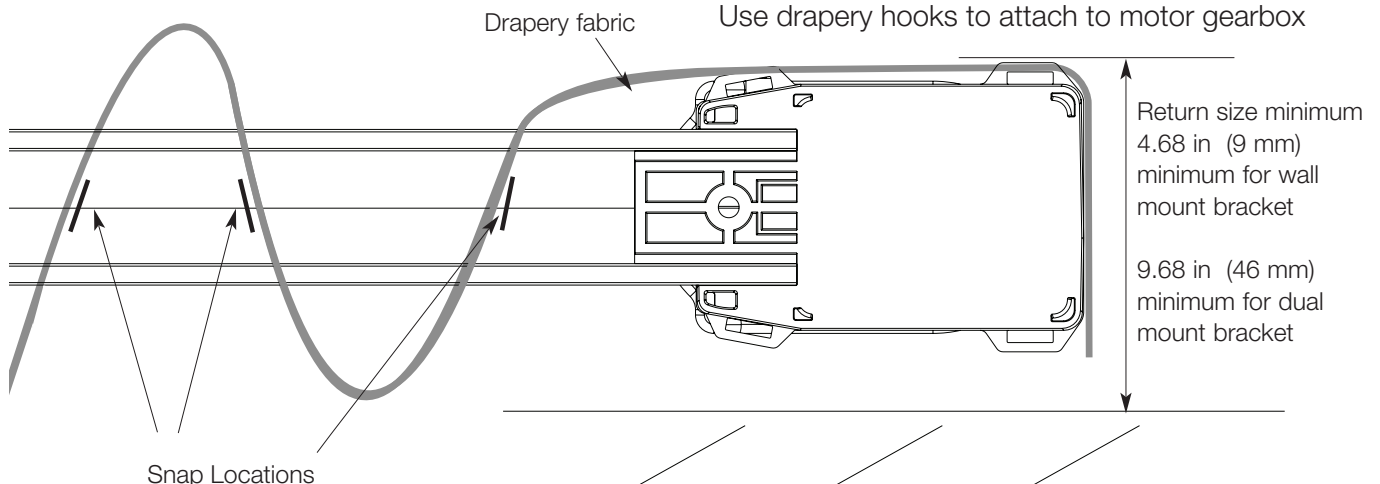
The bottom of the drapery track is to be mounted such that it is located a distance of 0.50 in (13 mm) + drapery panel height from the floor. Drapes are typically sized so the bottom of the drapery track and top of the drapery panel are located 4 in (101 mm) above the window casing. Location may need to be adjusted to accommodate the specific drapery panel height and application.



Attach male snaps on drape to female snaps on Ripplefold overlap Master Carrier and auxiliary carriers, creating a ripple pattern as shown.

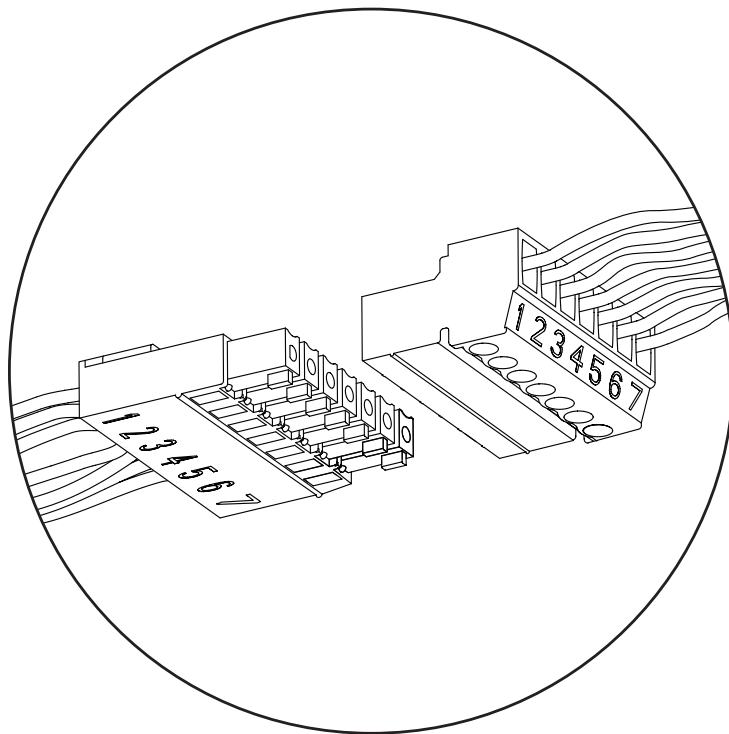
Drapery Fabric Return

Use drapery hooks to attach to motor gearbox



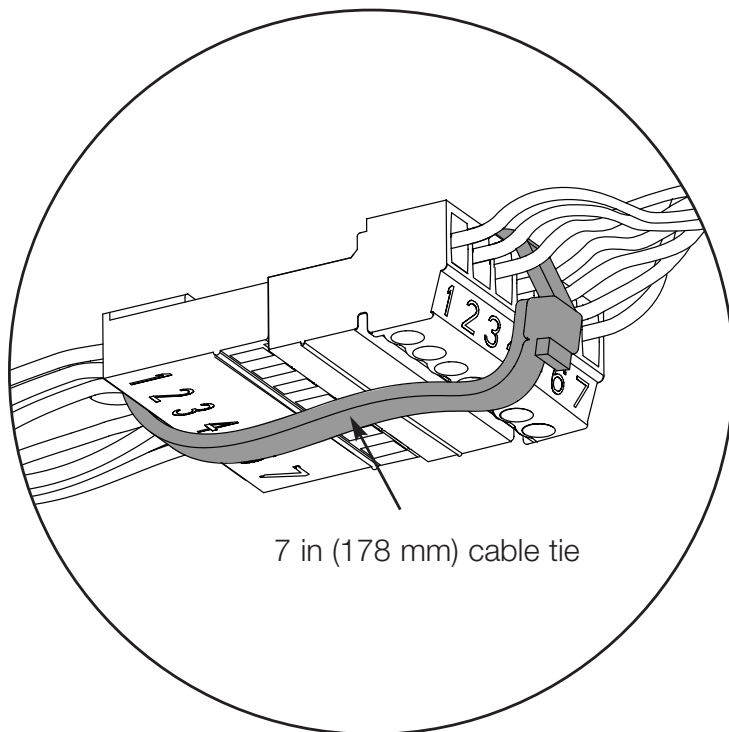
5 Connect Terminal Blocks

- 5.1 Plug the EDU terminal block into the 7-pin terminal block.



- 5.2 Ensure terminal blocks are oriented as shown.

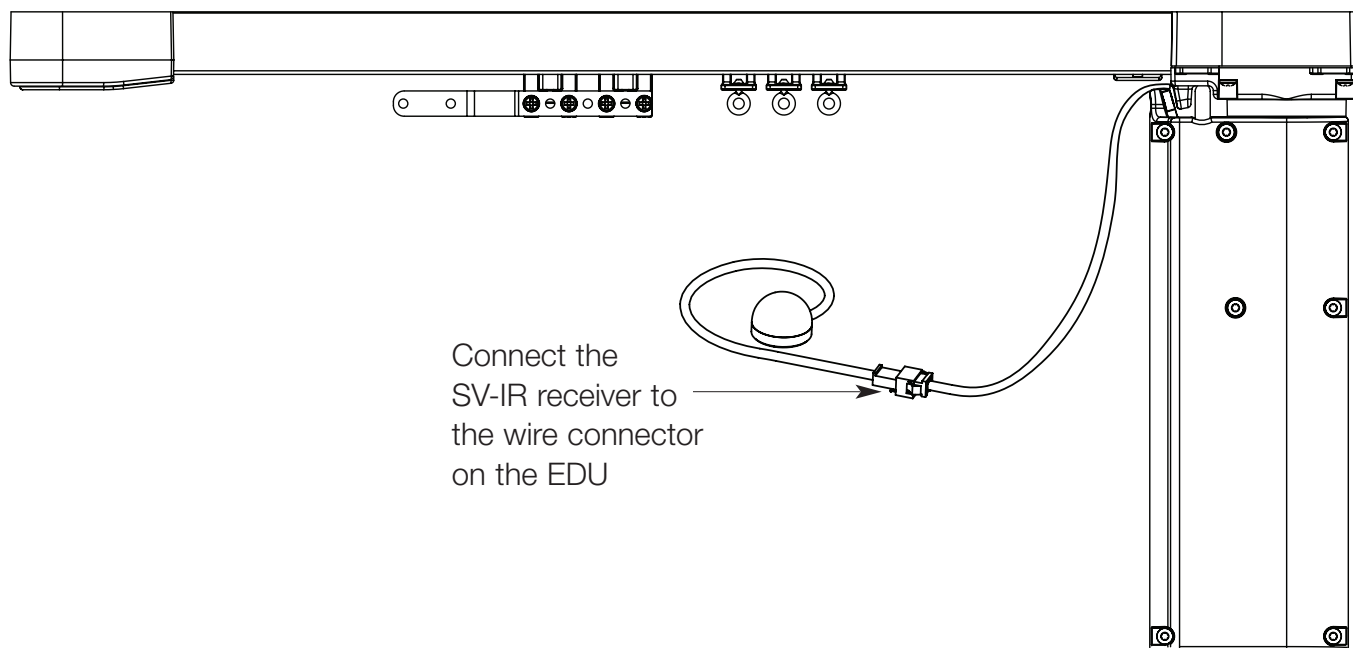
- 5.3 Secure terminal blocks with 7 in (178 mm) cable tie.



- 5.4 Use 4 in (102 mm) cable tie to dress wires to prevent them from rubbing against drapery fabric.

6 Infrared Control (If applicable)

6.1 Mounting the IR eye.



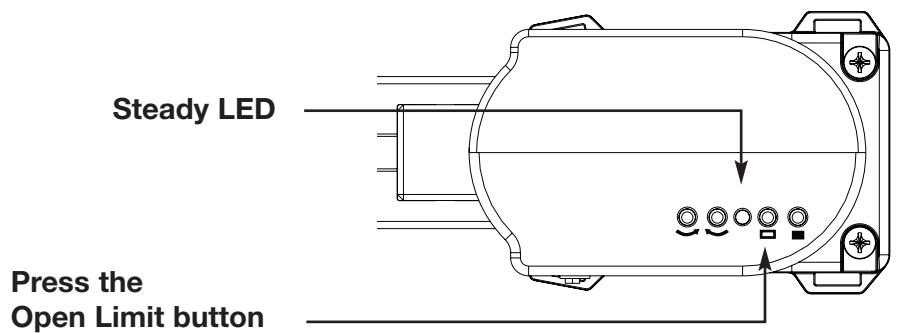
Mount the IR eye to the wall, the ceiling or even a non-moving edge of the drapery fabric. Make sure the location of the eye is not obstructed by an object.

The SV-IR allows the EDU to be controlled directly with a Lutron Shading Systems infrared handheld transmitter. The SV-IR receiver connects to the EDU via a 20 in (500 mm) cable. This provides the SV-IR receiver ample mounting range to offset any infrared signal restriction caused by a protective/ decorative covering for the drapery system.

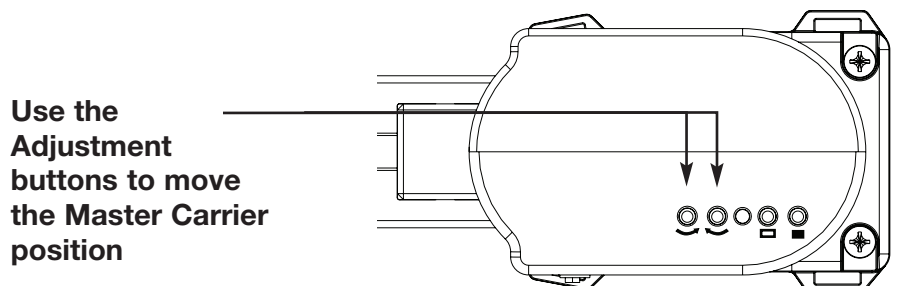
7 Setting Limits from the EDU

Setting the Open Limit from the EDU

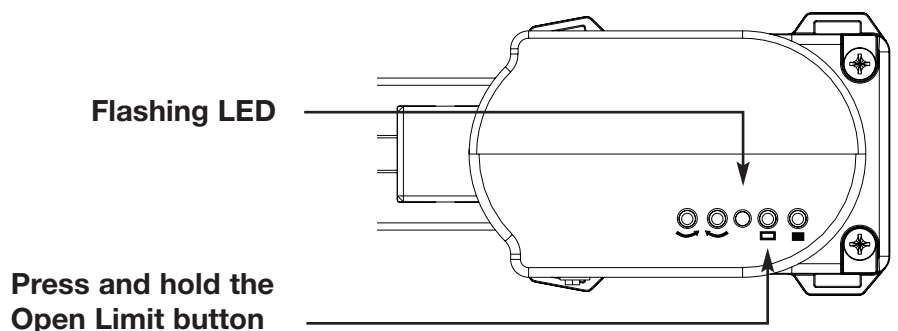
- 7.1** Press the “Open Limit” button (□). The green LED on the EDU will turn on steady, indicating that the EDU is in “Set Open Limit Mode.”



- 7.2** Adjust the position of the Master Carrier to the desired Open Limit using the adjustment buttons (↔).



- 7.3** Press and hold the “Open Limit” button (□) for 5 seconds. The green LED on the EDU will flash for 2 seconds, then turn off, indicating that the current position has been stored as the Open Limit.



7

Setting Limits from the EDU (continued)

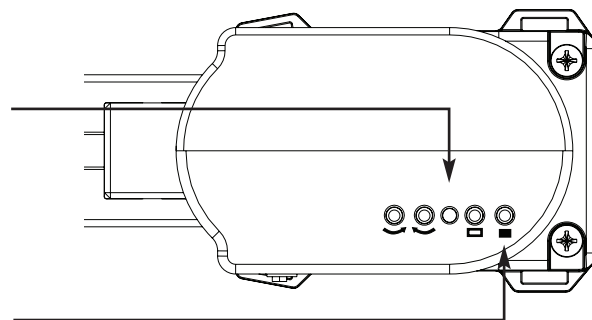
Setting the Close Limit from the EDU

7.4

Press the “Close Limit” button (■). The green LED on the EDU will turn on steady, indicating that the EDU is in “Set Close Limit Mode.”

Steady LED

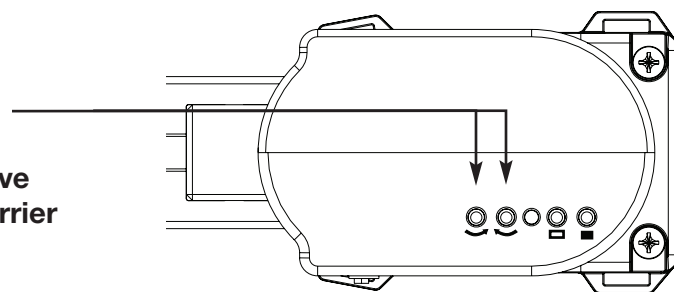
Press the
Close Limit button



7.5

Adjust the position of the Master Carrier to the desired Close Limit using the adjustment buttons (↔).

Use the
Adjustment
buttons to move
the Master Carrier
position

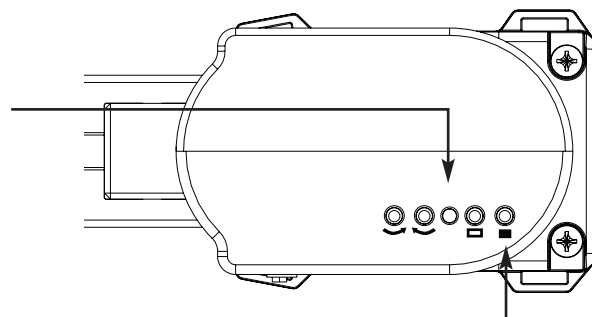


7.6

Press and hold the “Close Limit” button (■) for 5 seconds. The green LED on the EDU will flash for 2 seconds, then turn off, indicating that the current position has been stored as the Close Limit.

Flashing LED

Press and hold the
Close Limit button
for 5 seconds



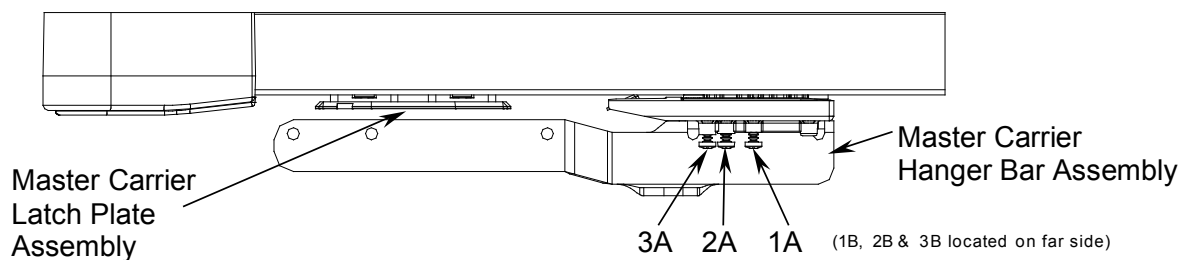
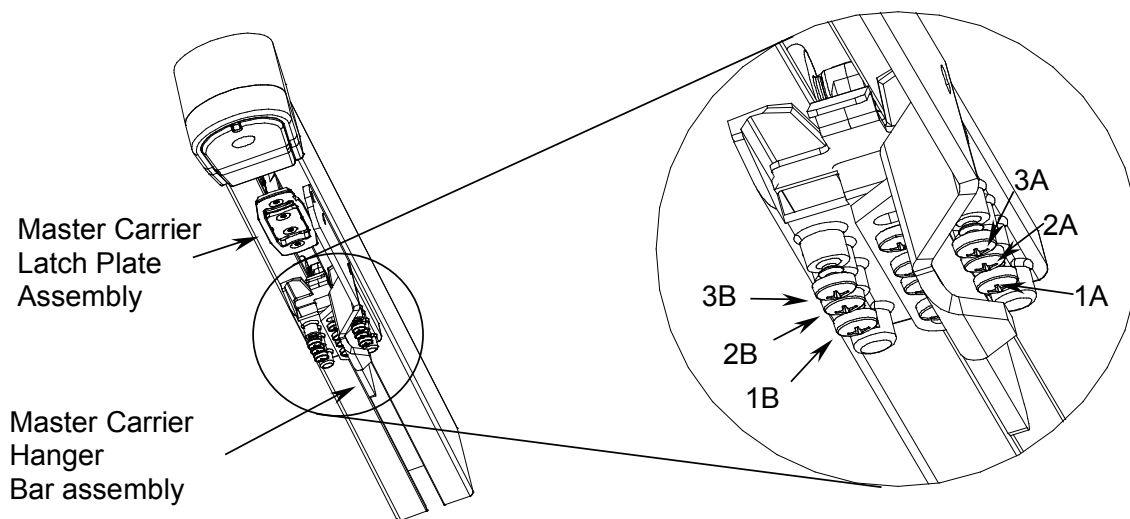
Note: Refer to Sivoia QED Wiring and Programming Guide (P/N 045-038) for additional information. This document is available at www.lutron.com/shadingsolutions/tech_refguide.

8 Manual Open Feature (if applicable)

Manual Open feature allows the drapes to be manually opened in the event of a power failure, or if the user is not aware the drapery track is motorized. The spring release mechanism can be adjusted to vary the force required to disengage the drapes from the motorized carrier system. When heavier drapes are used, more force is required for the drape and motorized carrier system to remain engaged.

8.1 Adjustment of the Manual Open Spring Release Mechanism

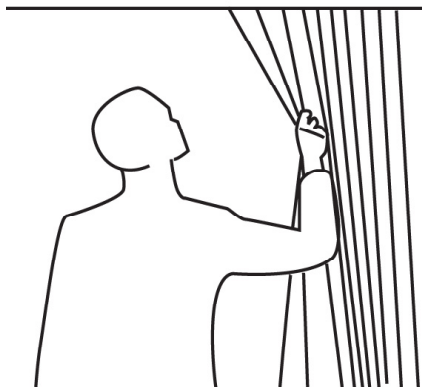
1. Double tap the “Close Limit” button (■) to move drapes to the Close Position
2. If the Master Carrier Hanger Bar Assembly disengages from the Master Carrier Latch Plate Assembly, fully tighten screws 1A and 1B. Refer to step 9.3 to reengage carrier
3. Double tap the “Open Limit” button (□) and the “Close Limit” buttons (■), respectively to open and close the drapes again to verify proper operation
4. If additional adjustments are necessary to prevent drape from disengaging, repeat steps 2 and 3, fully tightening screws 2A and 2B, then 3A and 3B, if necessary



8 Manual Open Feature (continued)

8.2 Manually Opening the Drapery

1. Grasp drapes near the top and pull in the direction of the open limit
2. Master carrier hanger bar assembly will disengage from the Master Carrier Latch Plate assembly
3. Pull drapes to the desired open position



8.3 Manually reengaging Drapes to the Motorized System

1. Grasp the drapes near the top and pull in the direction of the close limit until the Master Carrier Hanger Bar Assembly reengages with the Master Carrier Latch Plate Assembly

8.4 Automatically reengaging Drapes to Motorized System

1. Double tap the “Open Limit” button (□) on the EDU, to move the drapes to the open limit so the Master Carrier Latch Plate Assembly reengages with the Master Carrier Hanger Bar Assembly

Symptom	Solution	
The draperies will not open or close.	...	Check power to the EDU by pressing either the “□” or “■” button. If the LED is not green check the following (while attempting to operate drapery):
		<ul style="list-style-type: none"> • Input power to the transformer • Output power from the transformer (check transformer fuse) measured at the transformer • Power at the EDU (measure voltage at the EDU) • EDU is wired correctly • Power wiring terminal is not miswired or disconnected (ensure that no wire insulation is in the terminal block holes and that terminal block screws are tightened securely)
	...	Try to open and close the drapery using the buttons marked “↶” and “↷” on the EDU. If the drapery does not respond, check for and clear all obstructions
	...	Check that the Open and Close limits are set correctly
	...	If the system has been operating continuously for 8 minutes, it will pause for a rest period of 18 minutes
The drapery does not respond to keypads.	...	Check that power is connected to the drapery (see No.1)
	...	Check that the EDU terminal block is connected securely and wired correctly (ensure that no wire insulation is in the terminal block holes and that terminal block screws are tightened securely)
	...	Check that wall keypad has been wired correctly
The drapery does not respond to IR remote.	...	Check that the power is connected to the drapery (see No.1)
	...	Check that EDU terminal block is connected securely and wired correctly (ensure that no wire insulation is in the terminal block holes and that terminal block screws are tightened securely)
	...	Confirm that SV-IR, infrared receiver is wired to EDU correctly and is not obstructed
	...	Check transmitter batteries
Grouped draperies do not move together.	...	Confirm that all EDUs are wired correctly, including power and comm link
	...	Check EDU programming: <ul style="list-style-type: none"> • assignment • addressing
Drapery will not move to full open or full close.	...	Confirm that open and close limits are set correctly
	...	Confirm that drapery fabric is not obstructed or caught on something
	...	Confirm that drapery fabrics is hanging from only 2 holes of that master carrier

Symptom		Solution
When setting limits, drapery EDU stalls, or the Master Carrier stops moving.	Be sure not to run the master carrier to the end of the track with force Drapery fabric is caught on something If LED light blinks refer to Lutron's web page (www.lutron.com/shadingsolutions/tech_appnotes.asp) and select Application Note #11 for additional troubleshooting information based on the blink pattern
For manual open equipped system		
If drapes disengage from motorized carrier system during normal operation	Verify drape is not snagged or obstructed Adjust tension screws per step 9.1 Verify drape does not exceed the 70 lb capacity of the manual open carrier system
For manual open equipped system		
Master carrier doesn't reengage automatically	...	"Open limit" is short of the engagement point – Manually engage the drapery per step 9.3
For manual open equipped system		
Master car does not disengage when attempting to manually open the drapes	...	Loosen screws 3A and 3B, 2A and 2B, then 1A and 1B by $\frac{3}{4}$ turn from fully inserted location, one pair at a time, until desired release tension is achieved
For splice equipped system		
If there is carrier noise or the drape is not moving smoothly	Verify there is no gap in the splice location Verify the track sections on both sides of splice seam are aligned (Refer to splice instruction labels located on the top of the drapery track)

For additional technical information visit www.lutron.com/shadingsolutions, or contact Lutron Technical Support at 1.800.523.9466

Limited warranty

SCOPE

This limited warranty ("Warranty") covers the Lutron supplied (a) Sivoia QED Roller System ("Sivoia QED Roller System"), (b) manual shade system and (c) alternating current or a/c shade system (each of the foregoing being a "System"). Customer acknowledges and agrees that use of the System constitutes acceptance of all terms and conditions of this Warranty.

LIMITED WARRANTY

Subject to the exclusions and restrictions described below, Lutron warrants that each System will be free from manufacturing defects from the date of shipment by Lutron for a period of (a) one year as to the wall controls, interfaces and system accessories of the Sivoia QED Roller System ("External Sivoia QED Components") and (b) eight years as to the other Systems and the electronic drive unit (EDU), shade fabric and shade hardware of the Sivoia QED Roller

System. If any manufacturing defect exists in the External Sivoia QED Components, so long as Customer promptly notifies Lutron of the defect within the one year warranty period and, if requested by Lutron, returns the defective part(s), Lutron will, at its option, either repair the defective part(s) or provide comparable replacement part(s). If any manufacturing defect exists in any of the components of a System other than the External Sivoia QED Components, so long as Customer promptly notifies Lutron of the defect within the eight year warranty period and, if requested by Lutron, returns the defective part(s), Lutron will, at its option, either repair the defective part(s) or issue a credit to the Customer against the purchase price of comparable replacement part(s) purchased from Lutron as provided below:

Number of Years from Date of Shipment	Percentage of Cost of Replacement Parts Credited by Lutron
Up to 2	100%
More than 2 but not more than 5	50%
More than 5 but not more than 8	25%
More than 8	0%

Replacement parts for the System provided by Lutron or, at its sole discretion, an approved vendor may be new, used, repaired, reconditioned, and/or made by a different manufacturer.

EXCLUSIONS AND RESTRICTIONS

This Warranty will be void, and Lutron and its suppliers will have no responsibility under this Warranty, if Lutron or its representatives cannot access any components of the System to inspect, diagnose problems with or repair the System or any of its components as a result of concealment or inaccessibility of such components within a building structure.

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 System pursuant to the operating instructions provided by Lutron and the applicable provisions of the National

Limited warranty (continued)

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 or alterations; (f) vandalism; (g) an act of God, such as fire, lightning, flooding, tornado, earthquake, hurricane or other problems beyond Lutron's control; or (h) direct exposure to corrosive materials.

2. On-site labor costs to diagnose issues with, and remove, repair, replace, adjust, reinstall and/or reprogram the System or any of its components.

3. Components and equipment external to the System, such as, non-Lutron lighting and automation systems; building wiring audio-visual equipment; and non-Lutron time clocks, photosensors and motion detectors.

4. The cost of repairing or replacing other property that is damaged when any System does not work properly, even if the damage was caused by the System.

THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO EIGHT YEARS FROM THE DATE OF SHIPMENT, EXCEPT THAT SUCH IMPLIED WARRANTIES ARE LIMITED TO ONE YEAR FROM THE DATE OF SHIPMENT AS TO THE EXTERNAL SIVOIA COMPONENTS.

NO LUTRON AGENT, EMPLOYEE OR REPRESENTATIVE HAS ANY AUTHORITY TO BIND LUTRON TO ANY AFFIRMATION, REPRESENTATION OR WARRANTY

CONCERNING THE SYSTEMS. 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.

IN NO EVENT WILL LUTRON OR ANY OTHER PARTY BE LIABLE FOR EXEMPLARY, CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO DAMAGES FOR PERSONAL INJURY, FAILURE TO MEET ANY DUTY, INCLUDING OF GOOD FAITH OR REASONABLE CARE, NEGLIGENCE, OR ANY OTHER LOSS WHATSOEVER), NOR FOR ANY REPAIR WORK UNDERTAKEN WITHOUT LUTRON'S PRIOR WRITTEN CONSENT ARISING OUT OF OR IN ANY WAY RELATED TO THE INSTALLATION, DEINSTALLATION, USE OF OR INABILITY TO USE THE SYSTEM OR OTHERWISE UNDER OR IN CONNECTION WITH ANY PROVISION OF THIS WARRANTY, EVEN IN THE EVENT OF THE FAULT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, BREACH OF CONTRACT OR BREACH OF WARRANTY OF LUTRON OR ANY OTHER PARTY, AND EVEN IF LUTRON OR SUCH OTHER PARTY WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

NOTWITHSTANDING ANY DAMAGES THAT CUSTOMER MIGHT INCUR FOR ANY REASON WHATSOEVER (INCLUDING, WITHOUT LIMITATION, ALL DIRECT DAMAGES AND ALL DAMAGES LISTED ABOVE), THE ENTIRE LIABILITY OF LUTRON AND OF ALL OTHER PARTIES UNDER THIS WARRANTY ON ANY

Limited warranty (continued)

CLAIM FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE MANUFACTURE, SALE, INSTALLATION, DELIVERY, USE, REPAIR, OR REPLACEMENT OF THE SYSTEM, AND CUSTOMER'S SOLE REMEDY FOR THE FOREGOING, WILL BE LIMITED TO THE AMOUNT PAID BY CUSTOMER FOR THE SYSTEM. THE FOREGOING LIMITATIONS, EXCLUSIONS AND DISCLAIMERS WILL APPLY TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW, EVEN IF ANY REMEDY FAILS ITS ESSENTIAL PURPOSE.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. 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 OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

WARRANTY CLAIMS, TECHNICAL ASSISTANCE AND WARRANTY INFORMATION.

Contact the Lutron Technical Support Center at the numbers provided on the following page or your local Lutron sales representative with questions concerning the installation or operation of the System or this Warranty, or to make a warranty claim. Please provide the exact model number when calling.

The product may be covered under one or more of the following U.S. patents: 6,935,403; 6,983,783, and 6,994,145 corresponding foreign patents.U.S. and foreign patents pending.

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