

***Sivoia QED* | roller 20**

The *Sivoia QED* roller 20 shade utilizes the ultra-quiet, precision controlled Electronic Drive Unit (EDU). The *Sivoia QED* EDU is housed inside the roller shade assembly and controls the movement of the shade, keeps track of the shade's position, and adjusts the shade to the user's desired preset positions.

Features

- Smooth, ultra-quiet operation
- Shades start, move and stop with precision
- Offers programmable stop points. The EDU tracks the position of the shade and is able to adjust it to predetermined locations at the touch of a button
- Provides maximum window coverage with small, symmetrical light gaps, 0.75 in (19 mm) between the shade fabric and the mounting bracket
- Easy-to-read and easy-to-use controls
- Optional infrared (IR) system provides easy, convenient control from anywhere in the room
- Integrates with Lutron lighting control systems and other AV equipment
- Does not require group controllers or relay systems to create shade groups and sub-groups
- The EDU requires only low-voltage wiring
- Power failure memory for the lifetime of the product
- 8 year limited warranty



Sivoia QED roller 20 shade

Specifications

Power

- Requires 24 V~, 50 VA
- One transformer is required per EDU
- Power must be provided by a Lutron approved NEC Class 2 power source
- One EDU can power one accessory control (keypads and accessories)

System Capacity

- System allows for a total of 96 devices, including any type of *Sivoia QED* EDU, keypads, Contact Closure Input (CCI) or other interfaces
- If the number of keypads and interfaces in an installation exceeds the number of EDUs, external keypad power supplies are required
- Typical maximum shade size is 20 ft² (1.86 m²)
- Maximum shade size is determined from shade width, fabric type, fabric weight, hembar type etc. (refer to Lutron Shade Configuration Tool (SCT) for your application)

Performance

- Ultra-quiet operation (will not exceed 44dBA measured 3 ft (1 m) from the EDU)
- System allows for symmetrical light gaps as small as 0.75 in (19 mm) on each side
- Each EDU stores programmable presets including open, closed, and any other position
- Presets can be recalled from keypads, CCI's, IR receivers, and other lighting control system interfaces
- Presets can be set with a 5 second button push and hold from the keypads, CCI's, or hand-held remote controls
- Keypad adjustment of presets can be disabled with the "lock out" function on the keypad
- Open and close limits are programmable from the EDU, wall-mounted keypads, and hand-held remote controls
- All system components are Electro Static Discharge (ESD) protected

Grouping

- Keypads and CCIs can control any EDU or group of EDUs without a separate group controller
- System groups and subgroups can be configured at the point of control without rewiring and without access to the EDU
- System may contain multiple EDU types
- Keypads and interfaces within the system are able to operate any group or subgroup of EDUs

Integration

- EDUs seamlessly integrate with Lutron lighting control systems including, GRAFIK Eye®, RadioRA®, HomeWorks®, and RadioTouch®
- Contact closure available to integrate with A/V equipment such as time clocks and security systems.

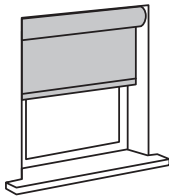
Controls

- Keypads and CCIs are low-voltage and receive their power from the EDUs
- All system devices must be connected through a common communication link
- IR controls available. IR receivers can be wired directly to EDU. There are also *Sivoia QED* keypads and CCIs with built in IR receivers

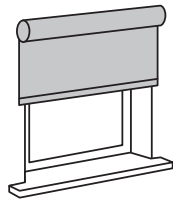
Sivoia QED roller 20™ shade options

Mounting options

Depending on window dimensions, brackets can be mounted inside the window frame, outside the window frame, to the ceiling, or in a pocket.



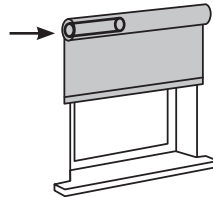
Inside mount



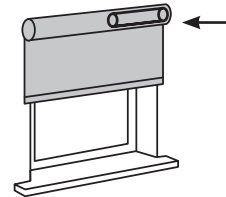
Outside mount

Drive side options

EDU can be mounted on the left or right of the shade:

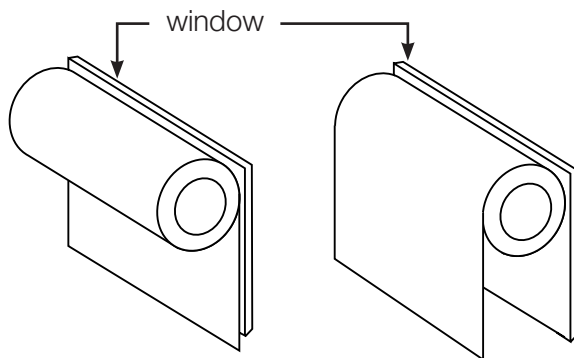


Left drive side



Right drive side

Fabric drop options

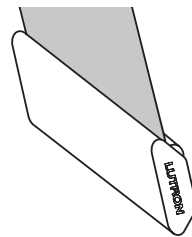


Regular roll

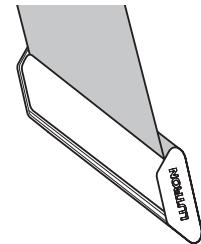
Reverse roll

Architectural bottom bar options

The bottom bar comes in two varieties:



Exposed bottom bar
Available in: white, bronze, anodized, and custom color.
Welded bottom bars also available.



Half-wrap bottom bar
(reverse view shown)

Fabric options

Sivoia QED roller shades are available in a wide variety of fabric types including:

Sheer Filter sun light, UV protection, view

Privacy Minimal translucence, UV protection

Blackout Total darkness, maximum UV protection, no view

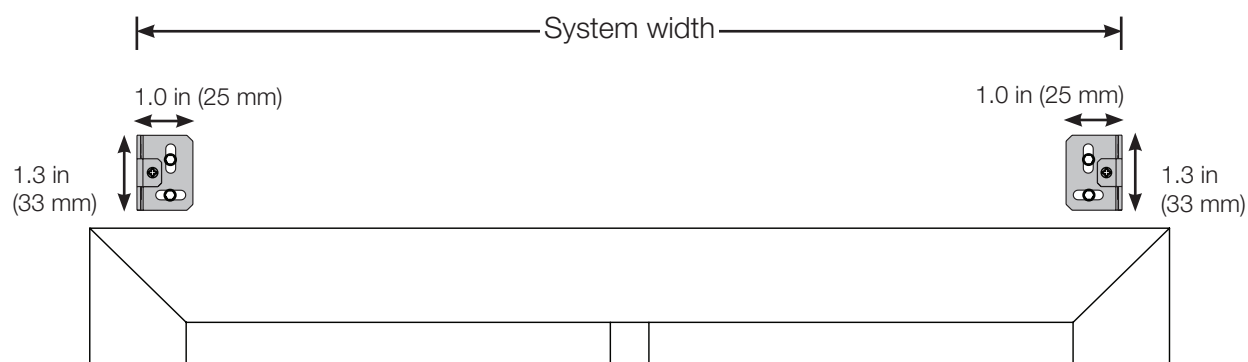
For complete fabric selection, visit www.lutron.com

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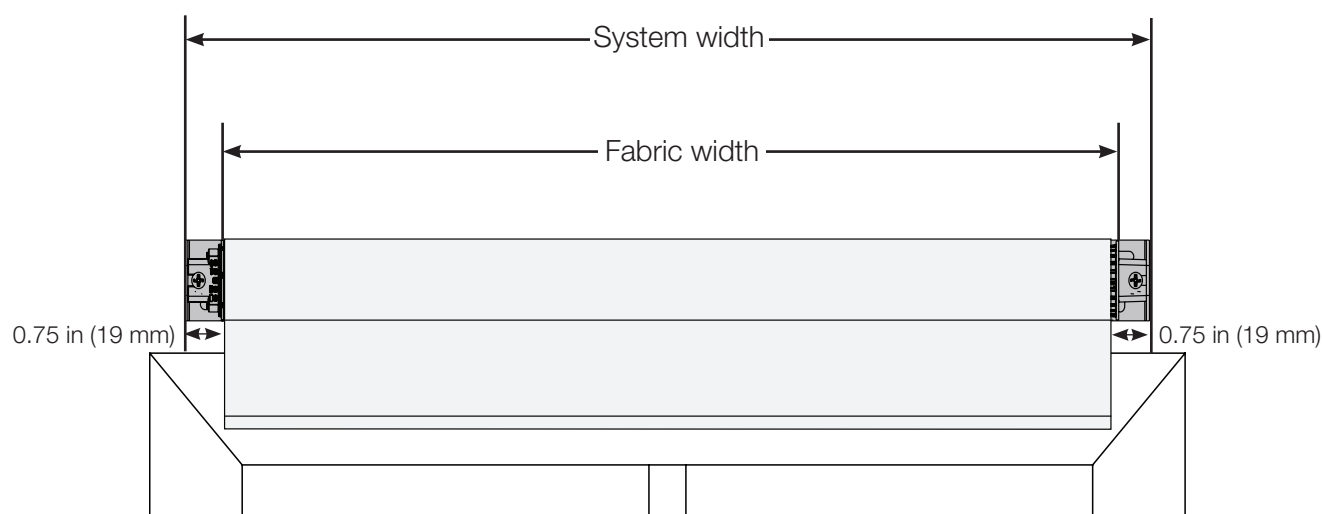
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Dimensions



Complete Assembly

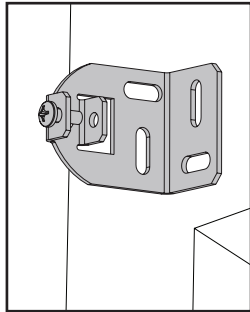


(Wall mount shown)

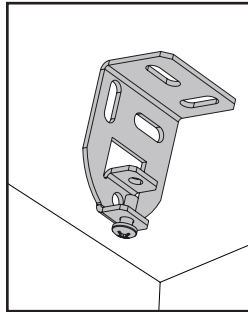
Bracket Options

The *Sivoia QED* roller 20 uses 3 distinct bracket designs to accommodate a variety of mounting conditions:

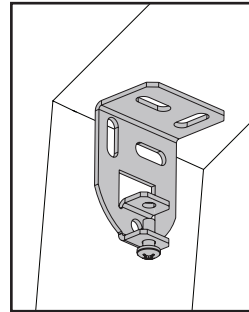
1 Universal Bracket



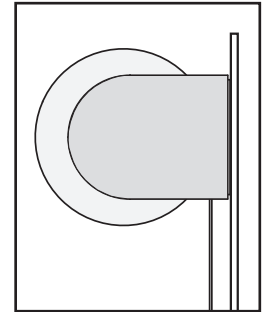
Wall mount



Ceiling mount

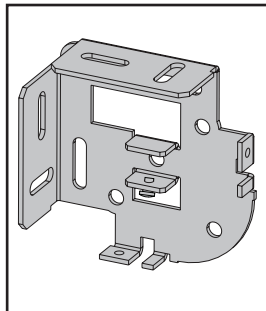


Jamb/recess mount

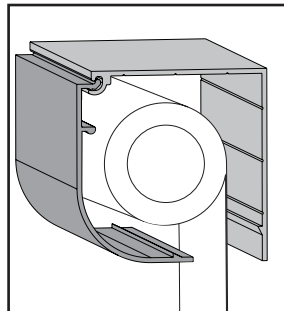


End cap in white

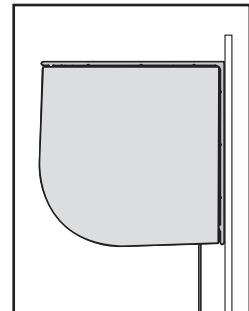
2 Fascia Mount Bracket



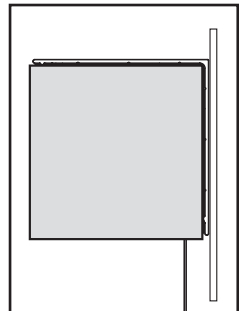
For use with curved or squared Fascia



Curved Fascia

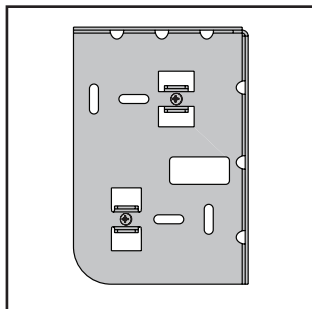


Fascia end caps available in white, gray, or bronze plastic



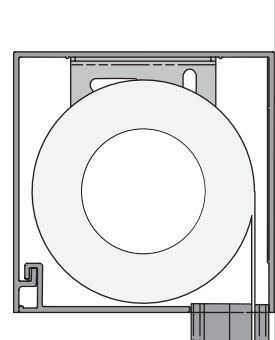
Squared Fascia with end cap

3 Dual Mount Bracket



For installation where 2 roller shades, a sheer shade and blackout shade, for example, are installed in the same window.

4 Pocket mount bracket

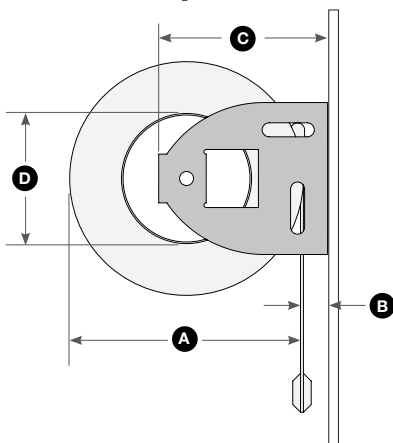


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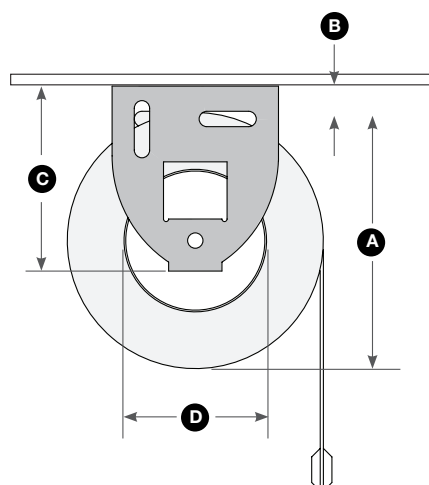
Fabric drop wall mount or jamb mount



Dimensions

- A** 2.5 in (64 mm)
- B** 0.18 in (5 mm) minimum
- C** 1.65 in (42 mm)
- D** 1.25 in (32 mm)

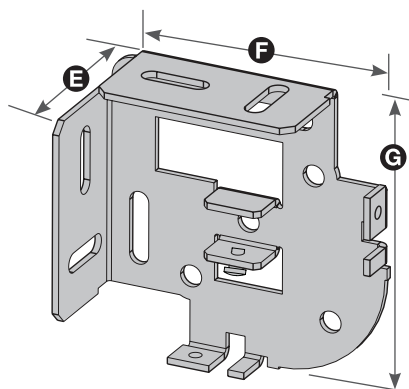
Fabric drop ceiling mount



Dimensions

- A** 2.5 in (64 mm)
- B** 0.18 in (5 mm) minimum
- C** 1.65 in (42 mm)
- D** 1.25 in (32 mm)

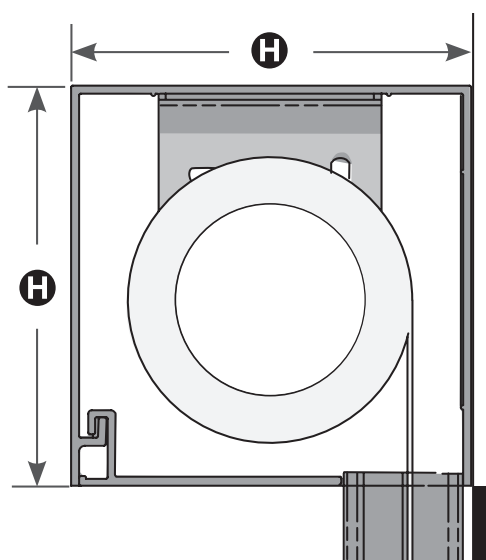
Fascia bracket



Dimensions

- E** 1.00 in (25 mm)
- F** 2.70 in (69 mm)
- G** 2.70 in (69 mm)

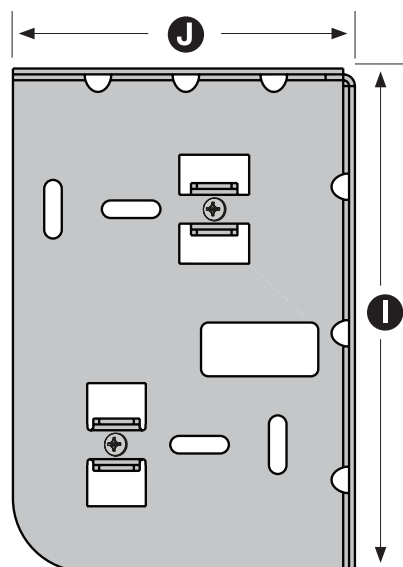
Pocket installation



Dimensions

H 3.5 in (89 mm)

Dual-mount



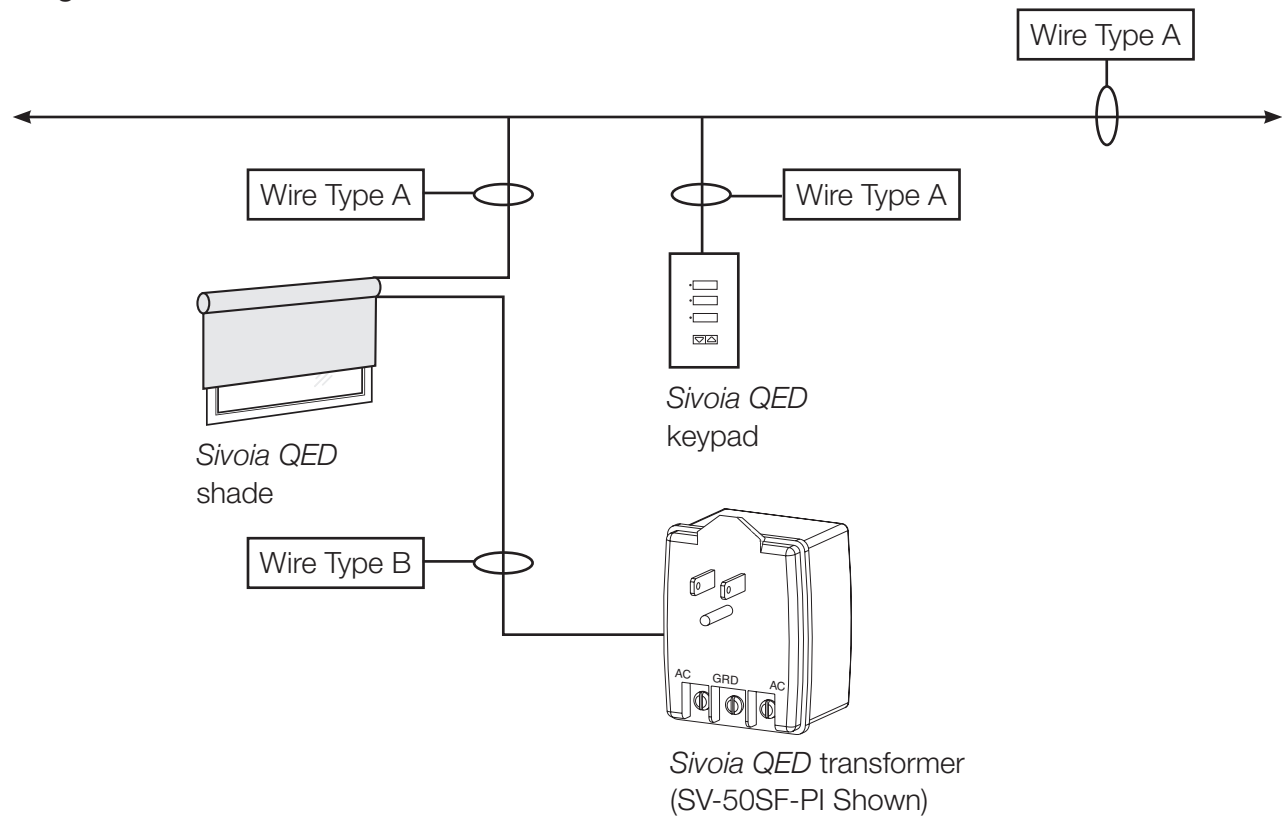
Dimensions

I 5.15 in (131 mm)

J 3.5 in (89 mm)

System wiring

Single transformer



| Wiring types | Purpose | Wire options |
|--------------|--|--|
| A | Communications and keypad power (EDUs, keypads, and accessories) | 1 pair 22 AWG (0.5 mm ²) or larger twisted and shielded for communications, 2 18 AWG (1.0 mm ²) for power or use Lutron P/N GRX-CBL-346S-500 |
| B | EDU power (transformer to EDU) | 16 AWG (1.5 mm ²) - 200 ft (60.9 m) max 18 AWG (1.0 mm ²) - 125 ft (38.1 m) max 20 AWG (0.5 mm ²) - 75 ft (22.8 m) max |

Note: The total length of Wire Type A depends on your system configuration. For actual wire lengths, refer to the Lutron *Sivoia QED* Wiring and Programming Guide, P/N 045-038

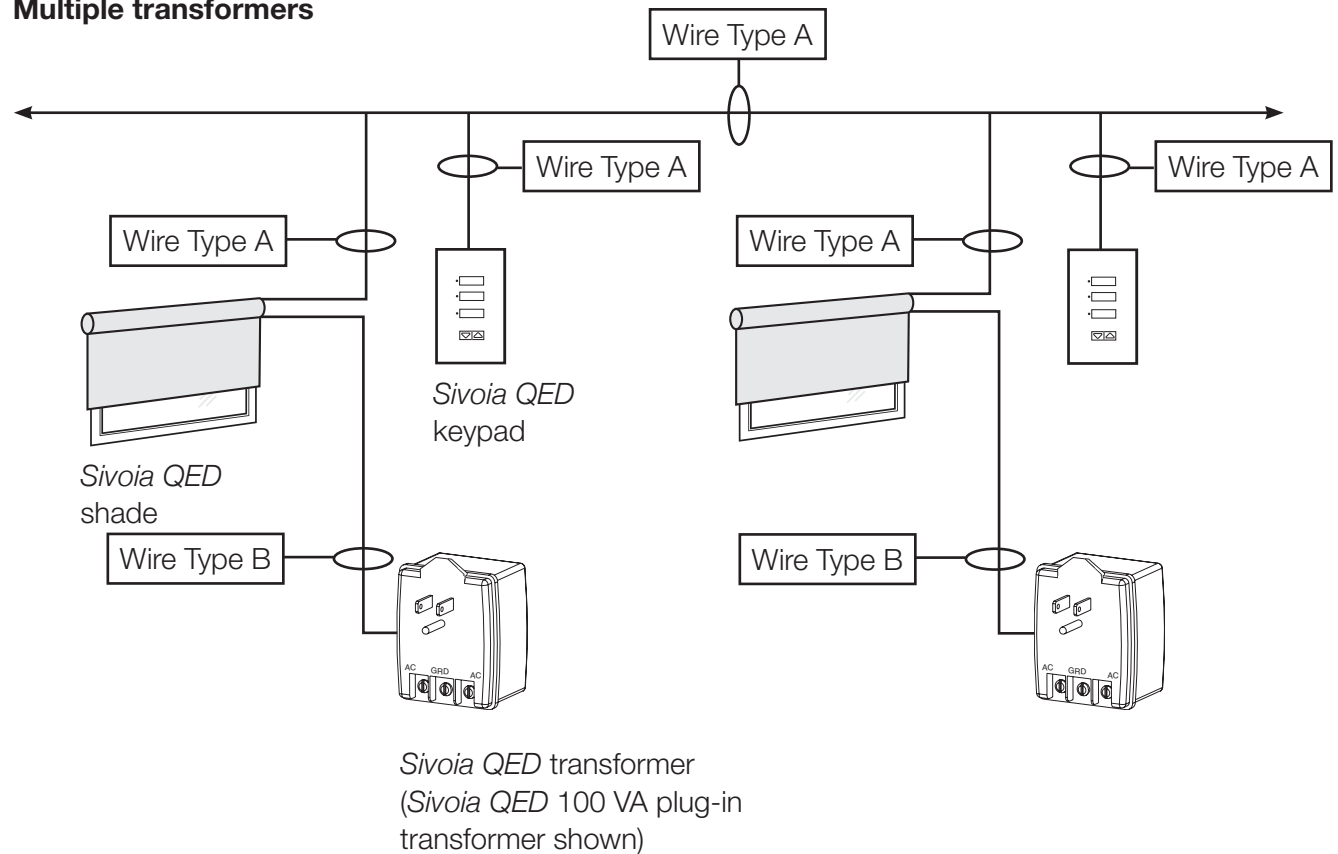
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System wiring

Multiple transformers



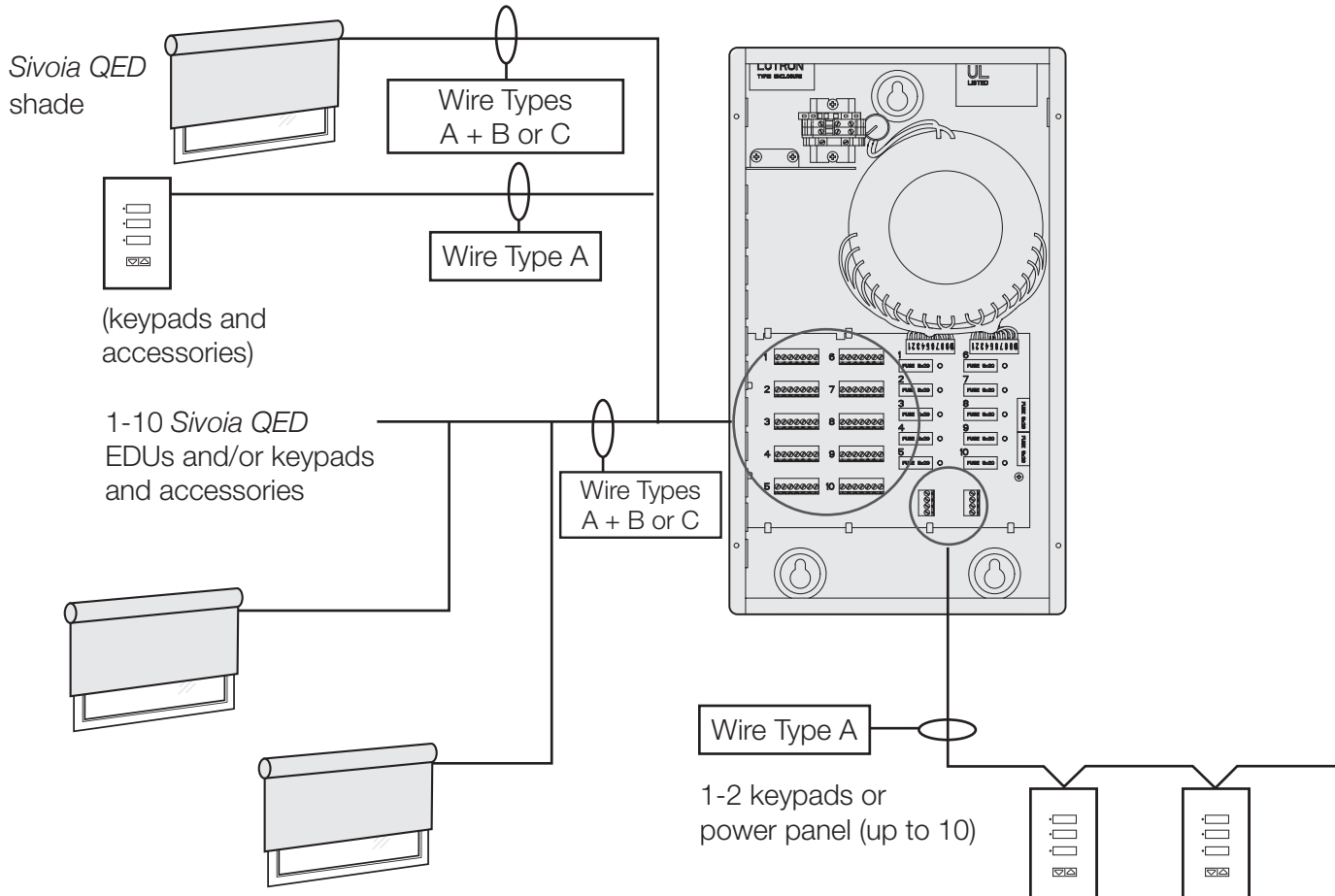
Note: The Sivoia QED link supports up to 96 devices (refer to page 2)

| Wiring types | Purpose | Wire options |
|--------------|--|--|
| A | Communications and keypad power (EDUs, keypads, and accessories) | 1 pair 22 AWG (0.5 mm ²) or larger twisted and shielded for communications, 2 18 AWG (1.0 mm ²) for power or use Lutron P/N GRX-CBL-346S-500 |
| B | EDU power (transformer to EDU) | 16 AWG (1.5 mm ²) - 200 ft (60.9 m) max 18 AWG (1.0 mm ²) - 125 ft (38.1 m) max 20 AWG (0.5 mm ²) - 75 ft (22.8 m) max |

Note: The total length of Wire Type A depends on your system configuration. For actual width lengths, refer to the Lutron Sivoia QED Wiring and Programming Guide, P/N 045-038

Power panels

Single panel or multiple panels



| Wiring types | Purpose | Wire options |
|--------------|--|--|
| A | Communications and keypad power (EDUs, keypads, and accessories) | 1 pair 22 AWG (0.5 mm ²) or larger twisted and shielded for communications, 2 18 AWG (1.0 mm ²) for power or use Lutron P/N GRX-CBL-346S-500 |
| B | EDU power (transformer to EDU) | 16 AWG (1.5 mm ²) - 200 ft (60.9 m) max 18 AWG (1.0 mm ²) - 125 ft (38.1 m) max 20 AWG (0.5 mm ²) - 75 ft (22.8 m) max |
| C | A and B combined | Combine A and B or use Lutron P/N SVQ-CBL-250 - 200 ft (60.9 m) max |

Notes

- The total length of Wire Type A depends on your system configuration. For actual wire lengths, refer to the Lutron *Sivoia QED* Wiring and Programming Guide, P/N 045-038
- The total number of keypads cannot exceed the number of EDUs

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Limited Warranty

SCOPE

This limited warranty ("Warranty") covers the Lutron supplied (a) Sivoia® QS Shade System ("Sivoia® QS Shade System"), (b) *Sivoia QED®* Shade System ("Sivoia QED® Shade System"), (c) manual shade system and (d) 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® QS Shade System ("External Sivoia® QS Components") and (b) eight years as to the other Systems and the electronic drive unit, shade fabric and shade hardware of the Sivoia® QS Shade System. If any manufacturing defect exists in the External Sivoia® QS 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® QS 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:

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.

| 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% |

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 in operability 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 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.

Limited Warranty (continued)

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, photo sensors 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 QS 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 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

Limited Warranty (continued)

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 below 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.

U.S. and foreign patents pending.

Lutron, the Sunburst logo, GRAFIK Eye, Homeworks, RadioRA, Radio Touch, and Sivoia QED are registered trademarks, and Sivoia QS is a trademark of Lutron Electronics Co., Inc.

Technical Assistance

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Printed in the U.S.A.

Sivoia QED roller 20
Specification Submittal sheet