SHADING

SPECIALISTS

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085267 Rev C 1 08.06.14

Sivoia QS | roller 150

The *Sivoia* QS roller 150 shade utilizes the ultra-quiet, precision controlled Electronic Drive Unit (EDU). The *Sivoia* QS 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.

Sivoia QS roller 150 shade (ceiling mount shown)

Features

- Ultra-quiet operation: will not exceed 44 dBA measured 3 ft (1 m) from the EDU
- Shades move in perfect unison and exact alignment within 0.125 in (3 mm) accuracy at all times
- Smooth, ultra-quiet starts, and stops
- 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 the smallest possible light gaps, 0.75 in (19 mm) between the shade fabric and the window frame. Light gaps are symmetrical on both sides of shade
- Easy-to-read and easy-to-use controls are immediately understood
- Does not require group controls or relay systems to create shade groups and sub-groups
- 24 V⎓ low-voltage power
- Power failure memory for the lifetime of the product
- 8 year limited warranty

Job Name:	Model Numbers:	
Job Number:		

Specifications

Power

- Operating voltage: Low-voltage Class 2, 24 V⎓ power supply required
- Control system power supply offers (spike and brownout) overvoltage protection (+/- 10% of line voltage) for all devices in the system
- Power supply provides appropriate Electro Static Discharge (ESD) protection for all devices in the system
- Power must be derived from a Lutron approved NEC Class 2 power source

System Capacity

- System allows for a total of 100 devices, such as a *Sivoia* QS shade, a seeTouch® QS keypad, a GRAFIK Eye® QS, and QS power supplies
- System allows for a total of 100 zones, including *Sivoia* QS shades and *GRAFIK Eye* QS
- Maximum size of shade fabric per EDU is 150 sq ft (14 sq m)

Performance

- System allows for symmetrical light gaps as small as 0.75 in (19 mm) on each side
- Each EDU stores presets positioned at any stop point along the shade's travel, as well as full open and full close shade limits
- Each EDU is capable of stopping with the accuracy of 0.125 in (3 mm) steps for the entire travel of the shade
- Preset points can be located at any point between the open/close limits and are adjustable with a 5 second button push and hold from the *seeTouch* QS keypads or *GRAFIK Eye* QS
- For systems with multiple EDUs, shades move smoothly in unison and exact alignment within 0.125 in (3 mm) accuracy at all times
- Limits are programmable and adjustable from the EDUs, wall-mounted *seeTouch* QS keypads and/or *GRAFIK Eye* QS

Grouping

- System keypads can control any EDU, group, or subgroup without a separate group controller or additional interface
- System groups and subgroups can be reconfigured at the point of control without rewiring and without access to the EDU
- Controls within this system are able to operate any group or subgroup of EDUs, regardless of window treatment type

Integration

- EDUs seamlessly integrate with Lutron lighting control, *GRAFIK Eye* QS, without a separate interface
- Contact closure, R232, and ethernet available to integrate with A/V equipment such as timeclocks and security systems

Controls

- *Sivoia* QS shades can be controlled by built-in shade columns on a *GRAFIK Eye* QS, or by *seeTouch* QS keypads
- seeTouch QS keypads are low voltage
- Microprocessors are contained in the EDU, *GRAFIK Eye* QS, and *seeTouch* QS keypads, allowing high level programming from either source
- All *Sivoia* QS shades, *GRAFIK Eye* QS and *seeTouch* QS keypads are wired together on the same communications link

Job Name:	Model Numbers:	
Job Number:		

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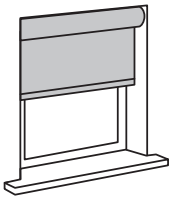
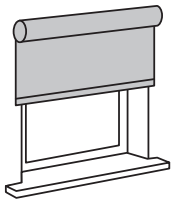
Sivoia QS roller 150 shade options

Mounting options

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



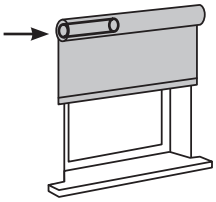
Inside mount



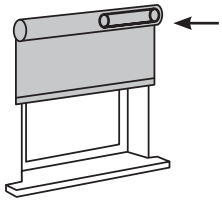
Outside mount

Drive side options

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

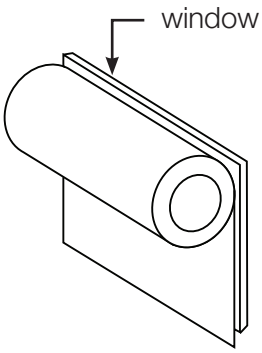


Left drive side

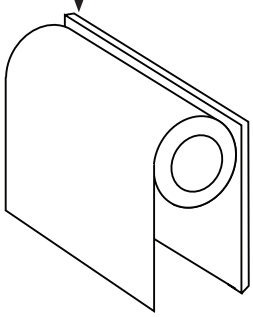


Right drive side

Fabric drop options



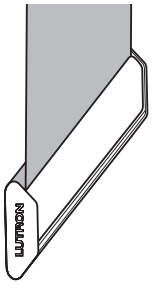
Regular roll



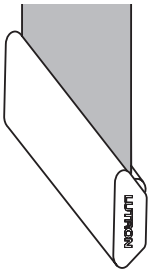
Reverse roll

Bottom bar options

The bottom bar comes in two varieties:



Half-wrap bottom bar (reverse view shown)



Exposed bottom bar

Exposed bottom bar available in:

- white
- bronze
- anodized
- custom color

Welded bottom bars also available.

Fabric options

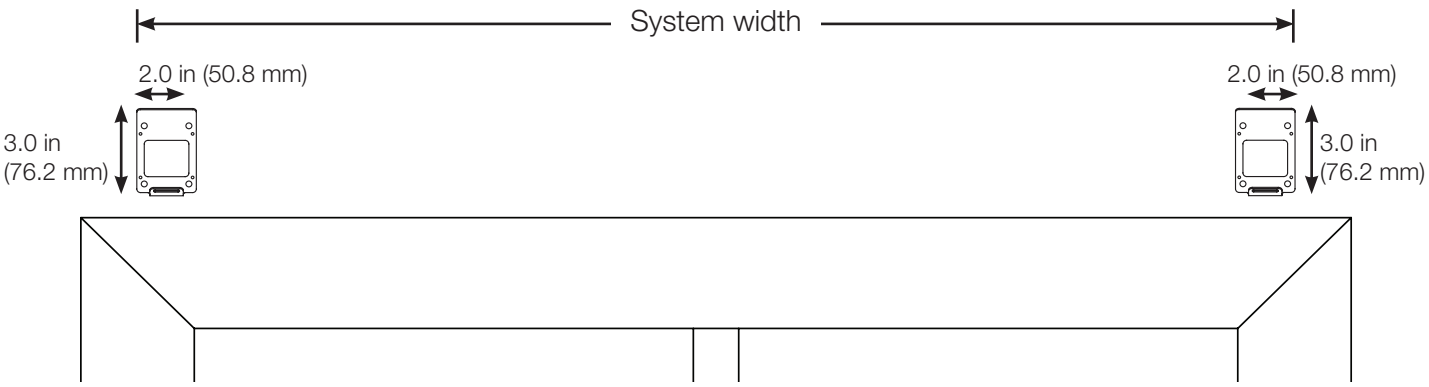
Sivoia QS roller shades are available in a wide variety of fabric types including:

- Sheer – Filter sunlight, UV protection, view
- Privacy – Minimal translucence, UV protection
- Blackout – Total darkness, maximum UV protection, no view

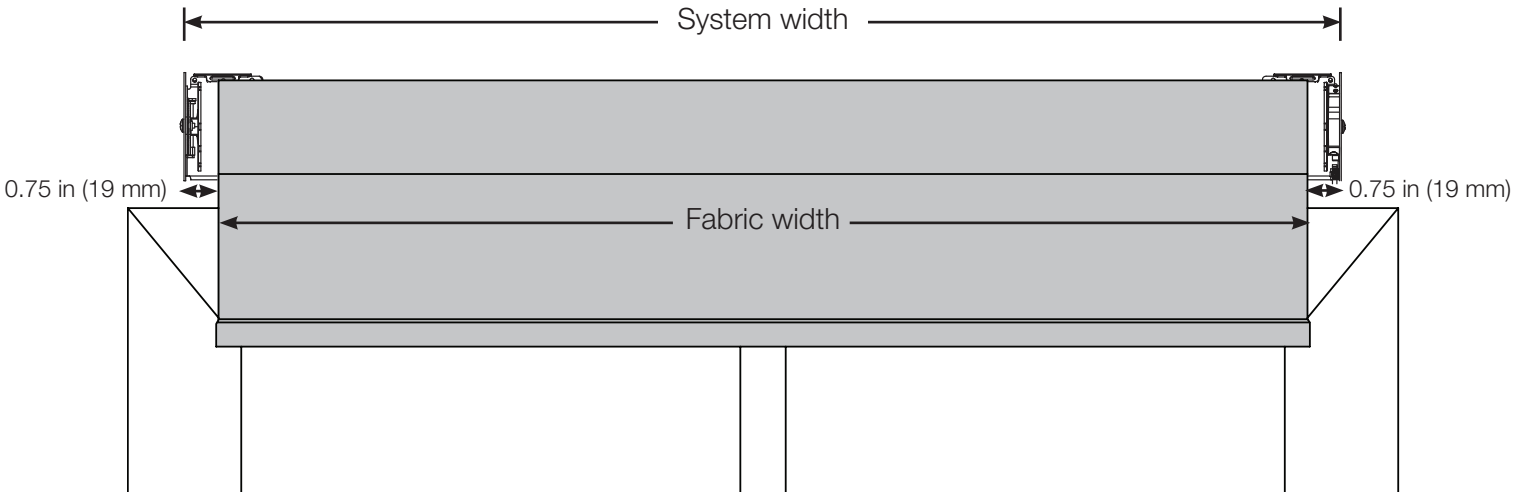
For complete fabric selection, visit **www.lutron.com**

Job Name:	Model Numbers:	
Job Number:		

Dimensions



Complete Assembly



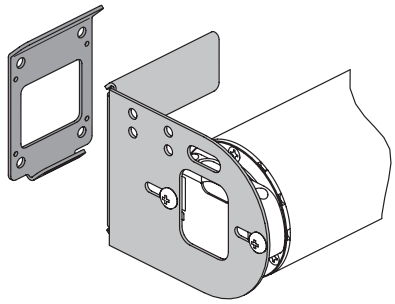
(Wall brackets shown)

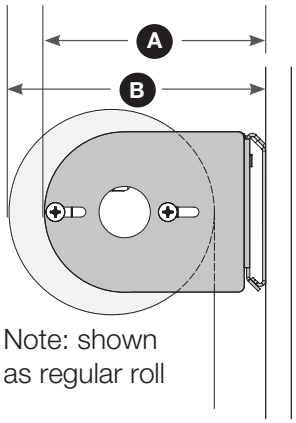
Job Name:	Model Numbers:	
Job Number:		

Bracket Options

Sivoia QS roller 150 brackets employ a two-piece design to maximize ease and flexibility of installation.

1) Wall mount bracket



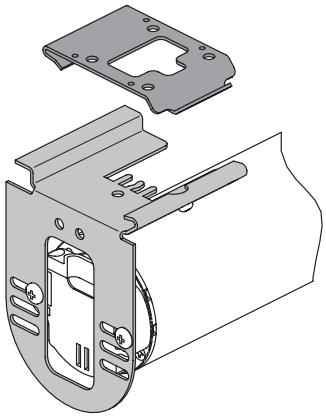


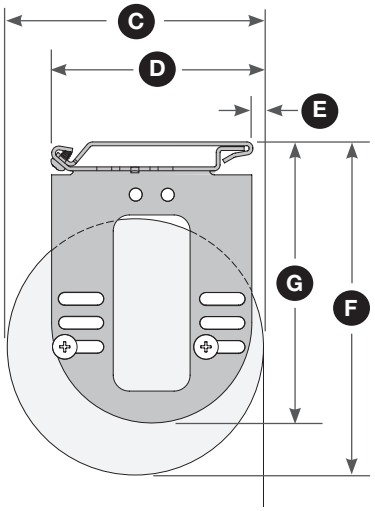
Note: shown as regular roll

Dimensions

- **A** 4.3 in (109 mm)
- **B** 5 in (127 mm)

2) Ceiling mount bracket

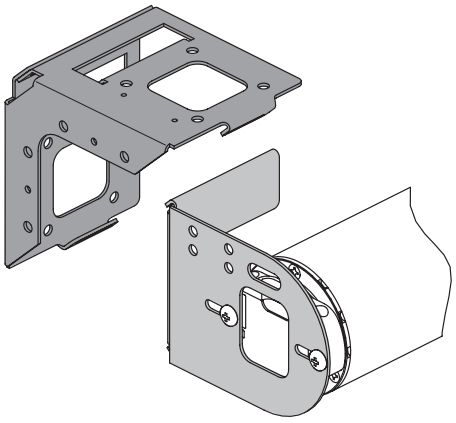


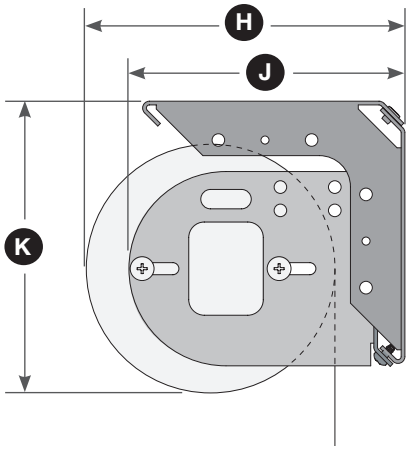


Dimensions

- **C** 4 in (102 mm)
- **D** 3.31 in (84 mm)
- **E** 0.0165 in (4 mm)
- **F** 5.2 in (132 mm)
- **G** 4.39 in (111 mm)

3) Jamb mount bracket





Dimensions

- **H** 5.125 in (130 mm)
- **J** 4.44 in (113 mm)
- **K** 4.69 in (119 mm)

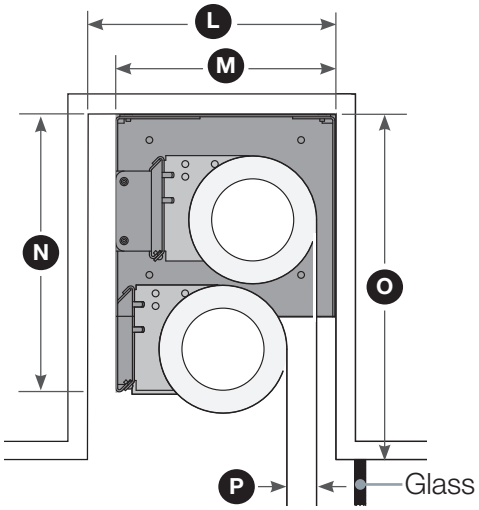
Job Name:	Model Numbers:	
Job Number:		

Bracket Options (continued)

Sivoia QS roller 150 brackets employ a two-piece design to maximize ease and flexibility of installation.

4) Dual mount bracket

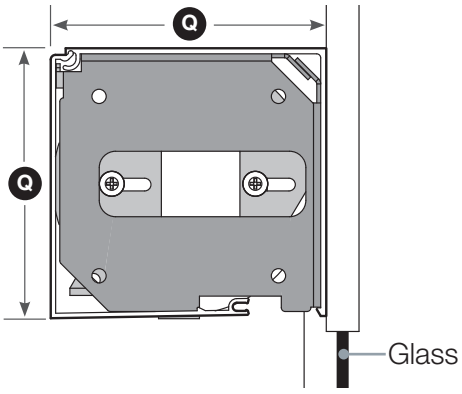
A common roller shade application is the use of two fabrics on one window, typically a sheer and a blackout. Fabric unrolls closest to glass.



Dimensions

- L 7 in (178 mm)
- M 6.625 in (168 mm)
- N 8.25 in (210 mm)
- O 11 in (279 mm)
- P 1 in (25 mm)

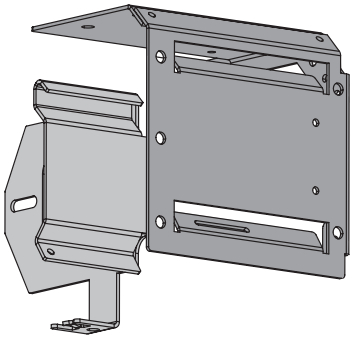
5) Fascia mount bracket

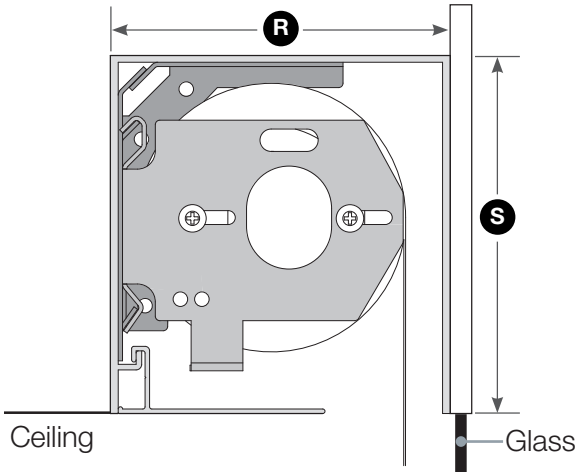


Dimensions

- Q 4.125 in (105 mm)

6) Pocket mount bracket





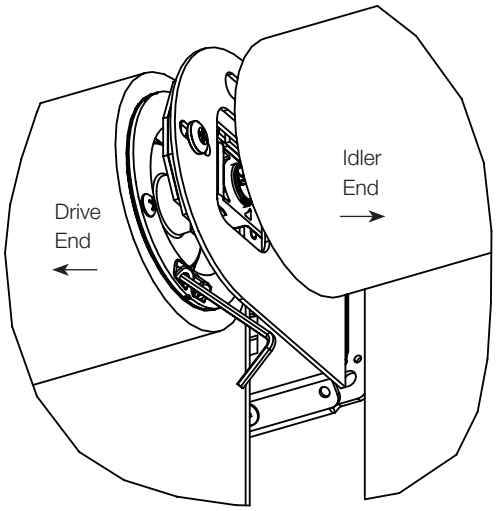
Dimensions

- R 4.75 in (121 mm)
- S 5 in (127 mm)

Job Name:	Model Numbers:	
Job Number:		

Coupled roller system

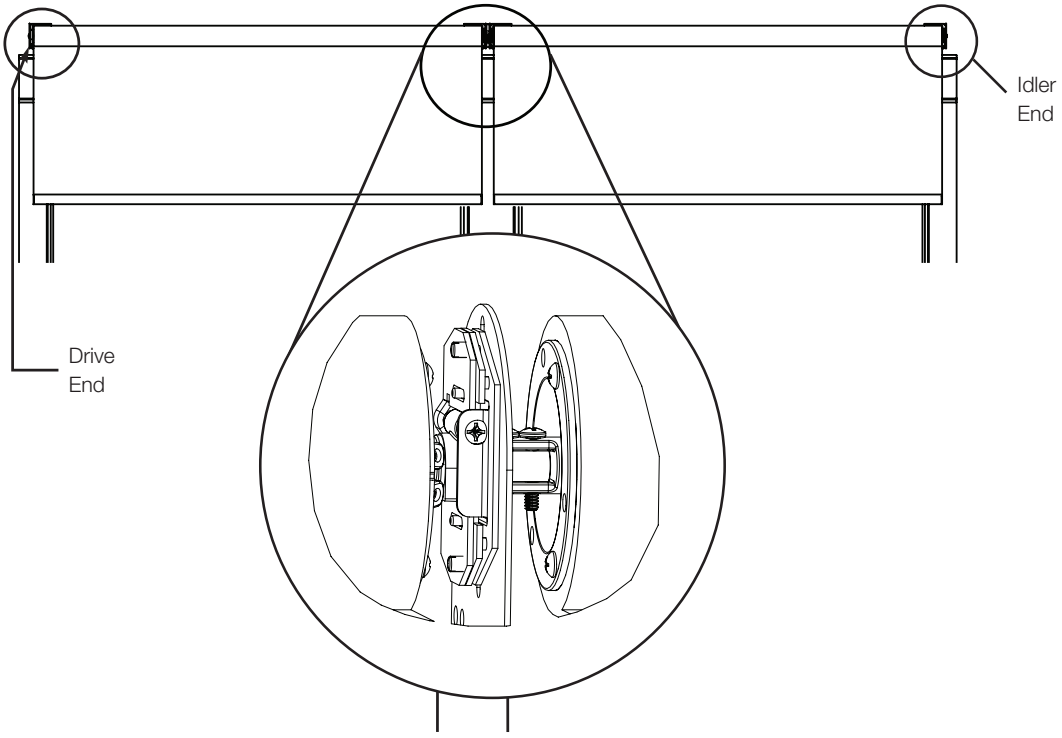
Up to three *Sivoia* QS roller 150 shade panels can be coupled, meaning they all are powered by a single electronic drive unit (EDU).



- Increased efficiency by operating multiple shades with one EDU
- Offers 1.5 in (38 mm) minimum light gap between panels
- Can be assembled with any bracket configuration
- Offers phase adjustment, which allows the bottom bars to be aligned after installation
- Allows precise hembar alignment (within 0.125 in [3 mm])

Coupling adjustment

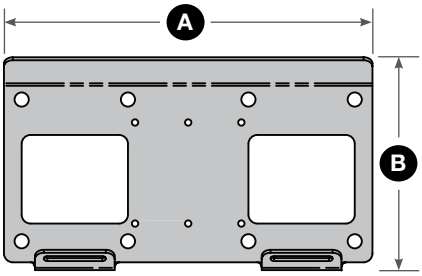
Use an allen key to align bottom bars while shades are in place.



Job Name:	Model Numbers:	
Job Number:		

Coupling sub-brackets

Wall mount coupling sub-bracket

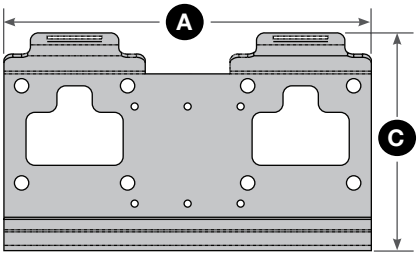


Dimensions

A 5.2 in (132 mm)

B 3 in (76 mm)

Ceiling mount coupling sub-bracket



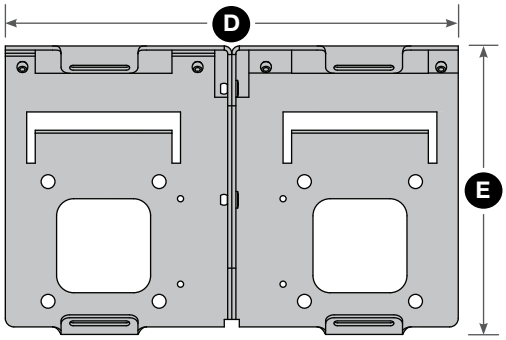
glass side

Dimensions

A 5.2 in (132 mm)

C 3.08 in (78 mm)

Jamb mount coupling sub-bracket

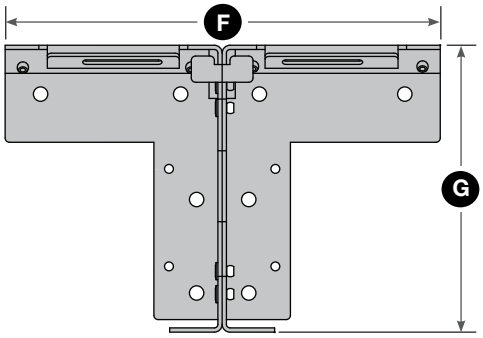


Dimensions

D 6.63 in (168 mm)

E 4.22 in (107 mm)

Fascia mount coupling sub-bracket

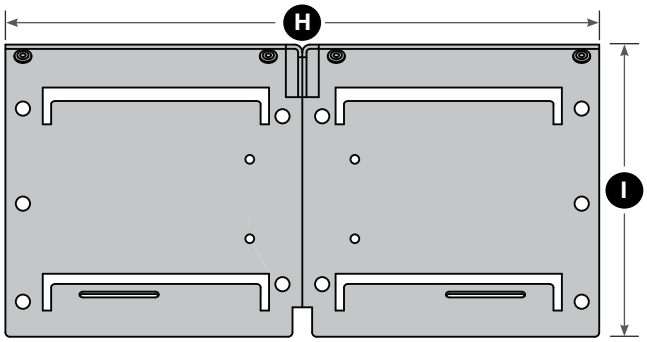


Dimensions

F 6.14 in (156 mm)

G 4.05 in (103 mm)

Pocket mount coupling sub-bracket



Dimensions

H 8.48 in (215 mm)

I 4.17 in (106 mm)

Job Name:	Model Numbers:	
Job Number:		

QS Link Wiring

Link Rules

The following Link rules must be observed for proper operation.

- Maximum of 100 devices (such as a GRAFIK Eye® QS, seeTouch® QS keypad, smart panel power supply [QSPS-P1-10-60], or *Sivoia* QS shade)
- Maximum of 100 zones - such as a *Sivoia* QS shade, or a lighting zone on a *GRAFIK Eye* QS
- Maximum 2000 ft (600 m) of cable connecting all QSPS-P1-10-60 panels
- Maximum 2000 ft (600 m) of cable to devices wired to each QSPS-P1-10-60
- Only use cable with at least one twisted/shielded pair for communications (MUX and $\overline{\text{MUX}}$)

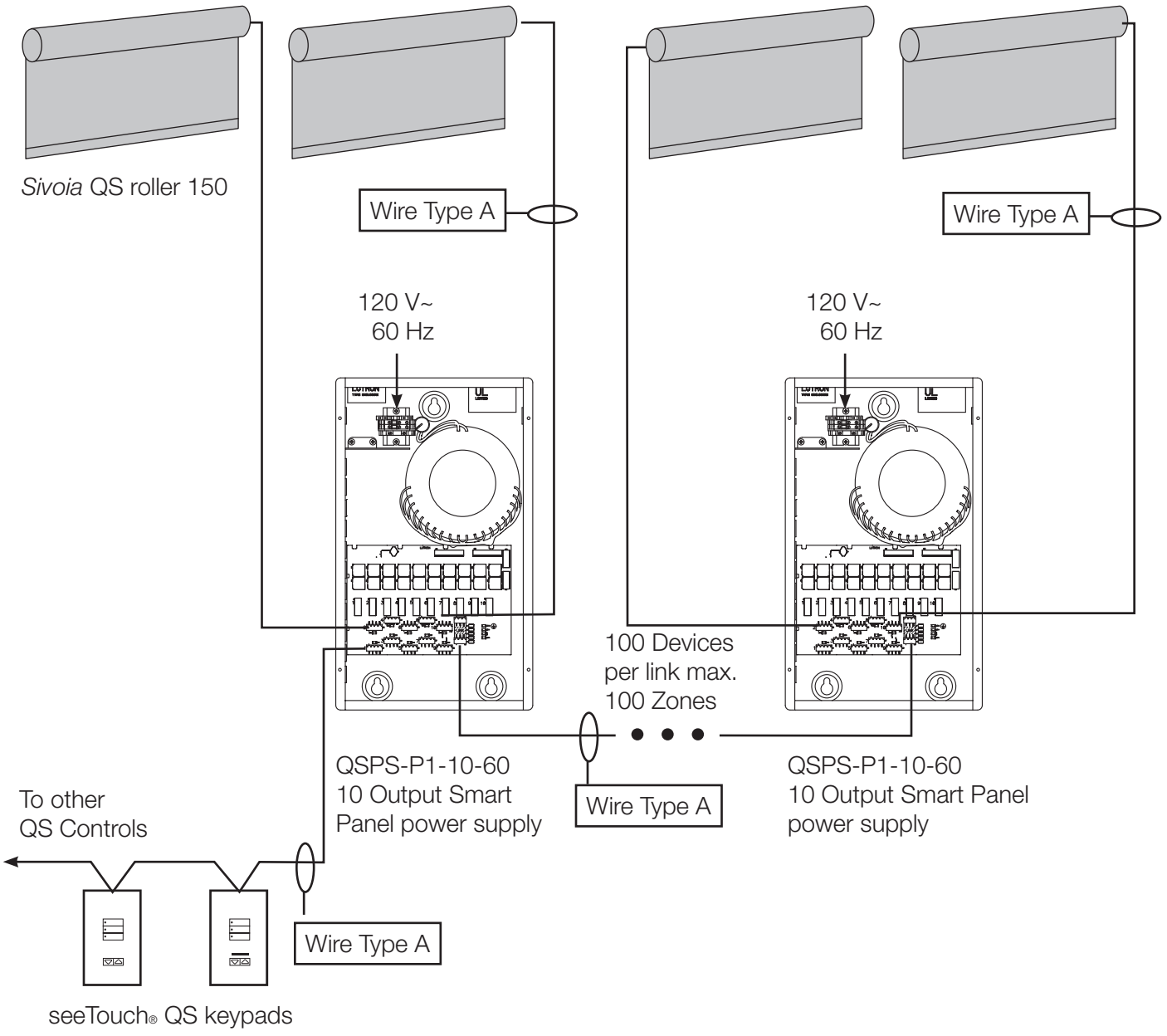
QS Smart Panel Power Supply Wiring Guide

Maximum devices per one output		Maximum distance per one output based on wire gauge		
Shades + Controls		12 AWG (4 mm²)	16 AWG (1.5 mm²)	18 AWG (1 mm²) GRX-CBL-346S-500
None	Up to 8 *seeTouch* QS keypads	1200 ft (350 m)	500 ft (150 m)	300 ft (75 m)
1 *Sivoia* QS roller 64™, roller 100, roller 150, roller 200CW, or roller 225™	Up to 1 *seeTouch* QS keypad	500 ft (150 m)	200 ft (60 m)	125 ft (35 m)
2 *Sivoia* QS roller 64, ≤ 30 sq ft (2.75 sq m) each	None	200 ft (60 m)	75 ft (20 m)	50 ft (15 m)
3 *Sivoia* QS roller 64, ≤ 20 sq ft (1.8 sq m) each	None			
2 *Sivoia* QS roller 100, ≤ 50 sq ft (4.6 sq m) each	None			

Refer to **www.lutron.com/sivoiaqs** for wiring guide for other roller tube dimensions

Job Name:	Model Numbers:	
Job Number:		

Sivoia QS System Wiring: Smart Panel power supply, single shade per output



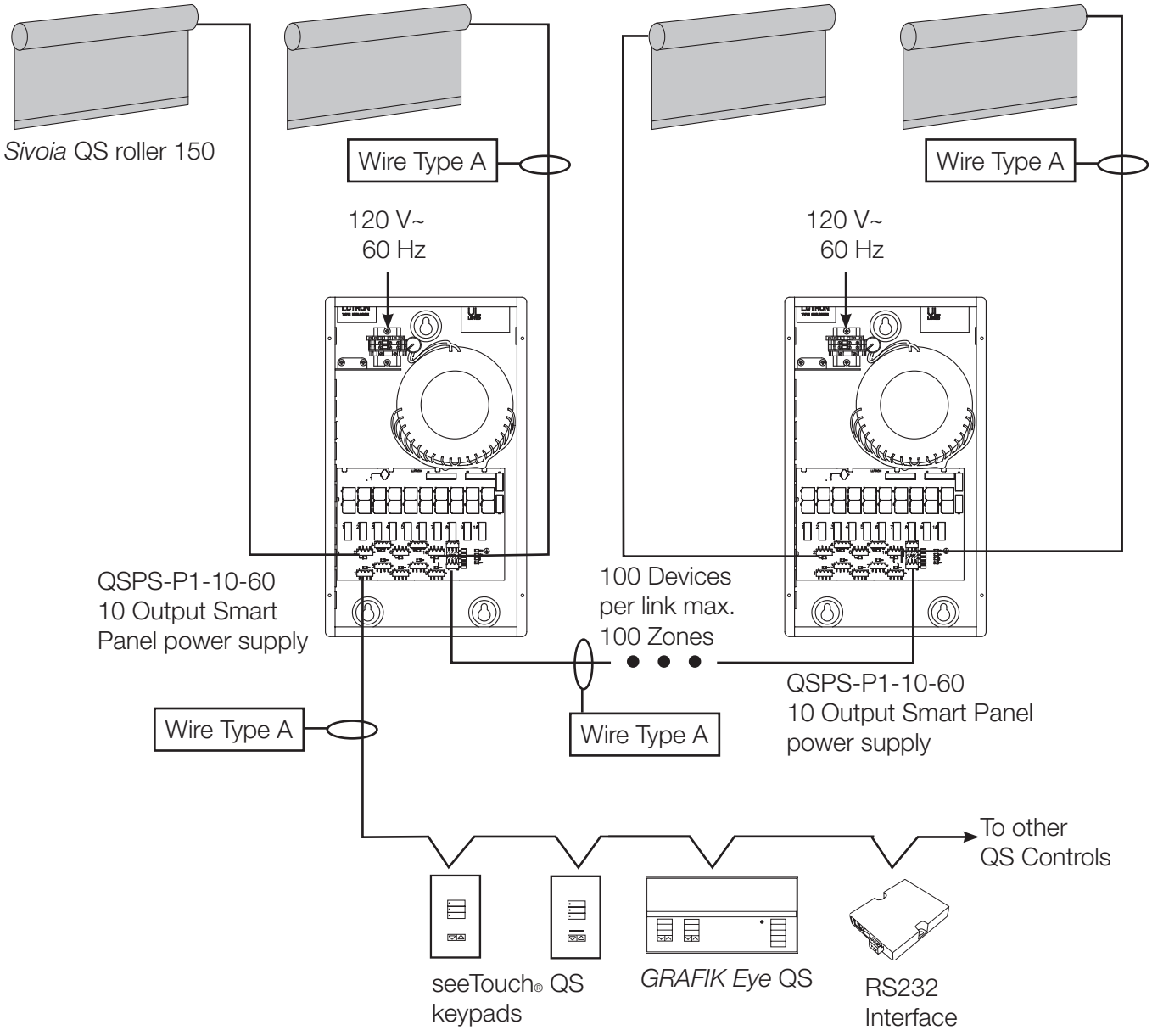
Wiring Type Key

Type A

Communications Link: 4 Conductor (twisted and shielded), listed for application
Refer to wiring guide on pg. 9 for wire gauge based on distance
Maximum comm. link: – Up to 2000 ft (600 m) connecting
all QSPS-P1-10-60 panels

Job Name:	Model Numbers:	
Job Number:		

Sivoia QS with GRAFIK Eye® QS System Wiring: Smart Panel power supply, single shade per output



Wiring Type Key

Type A

Communications Link: 4 Conductor (twisted and shielded), listed for application
Refer to wiring guide on pg. 9 for wire gauge based on distance
Maximum comm. link: – Up to 2000 ft (600 m) connecting
all QSPS-P1-10-60 panels

Job Name:	Model Numbers:	
Job Number:		

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:

Number of years from date of shipment	Percentage of cost of replacement parts credited by Lutron
Up to 5	100%
More than 5 but not more than 8	50%
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 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,

Job Name:	Model Numbers:	
Job Number:		

Limited Warranty (continued)

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 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.

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Limited Warranty (continued)

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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.

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Sivoia QS roller 150
Specification Submittal sheet

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