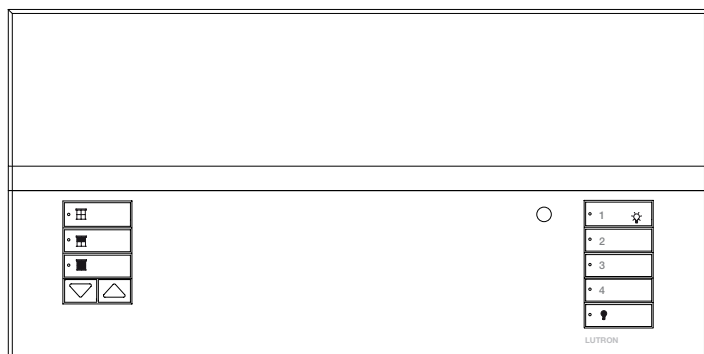


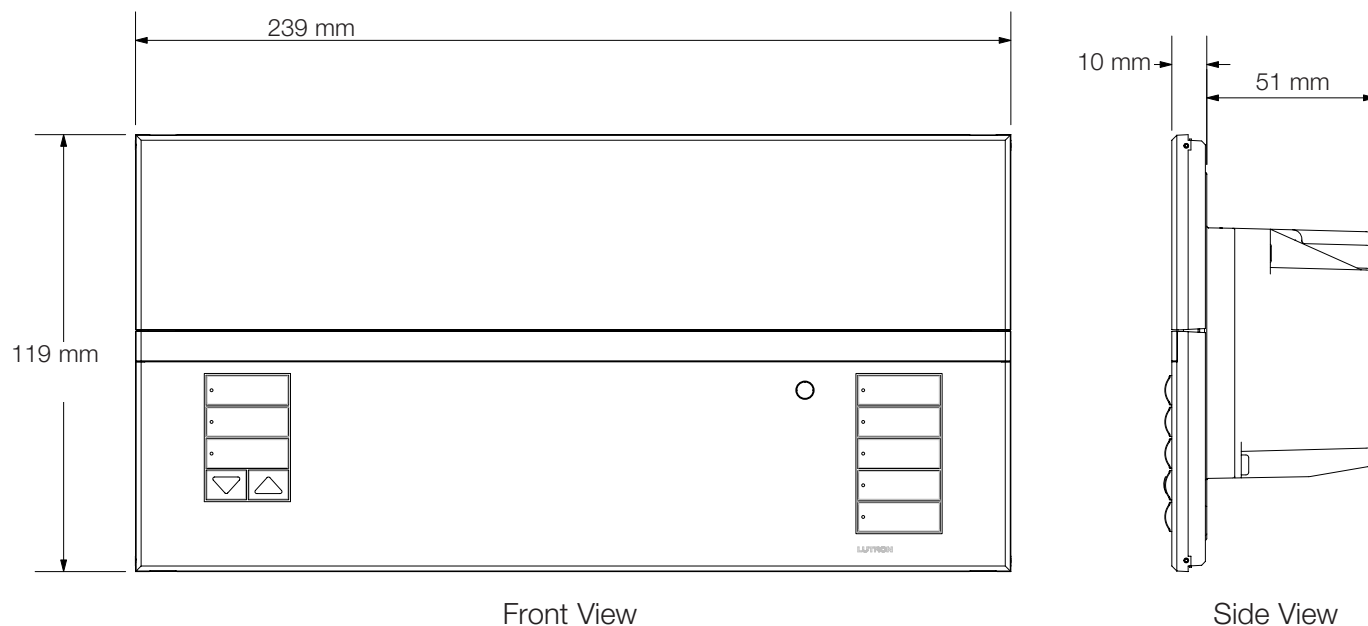
GRAFIK Eye QS Control Unit (230 V~ CE)



Description

GRAFIK Eye QS is the premier energy-saving light and window treatment control. GRAFIK Eye QS includes an astronomical timeclock, intuitive lighting presets, and direct window treatment control. Additionally, the GRAFIK Eye QS is compatible with all Lutron wired QS products and systems, including Quantum.

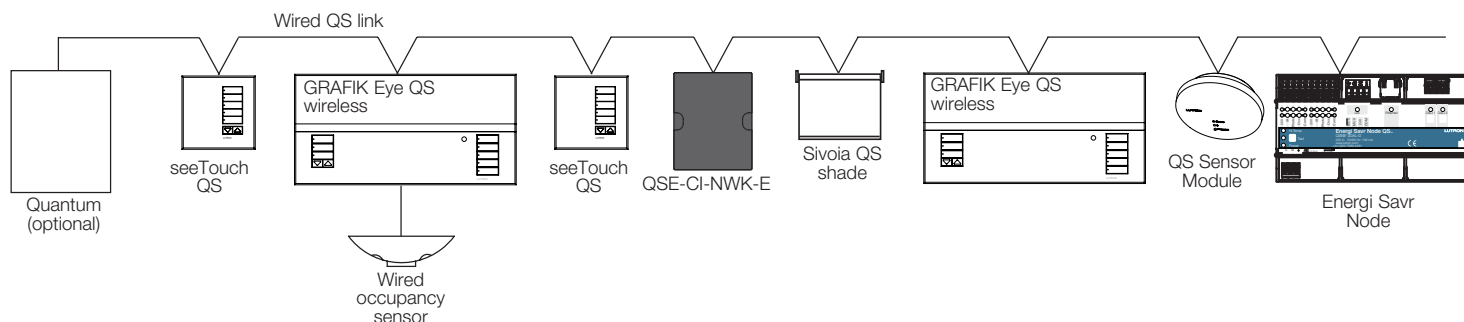
Mechanical Dimensions



Fits into a 4-gang U.S. backbox, 3½ in (90.4 mm) deep (Lutron P/N 245-254) or 3 in (76.2 mm) deep (Lutron P/N 241-400)

System Topology

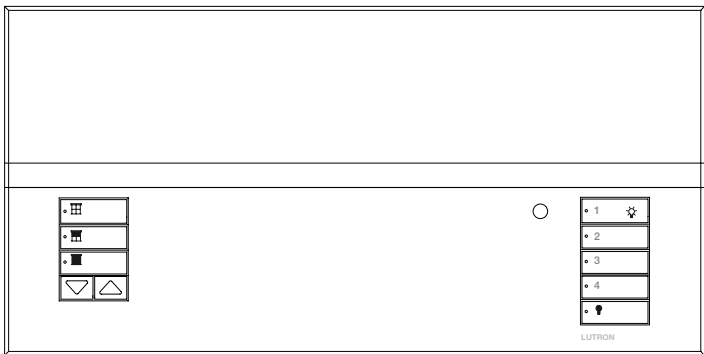
Example of Wired System



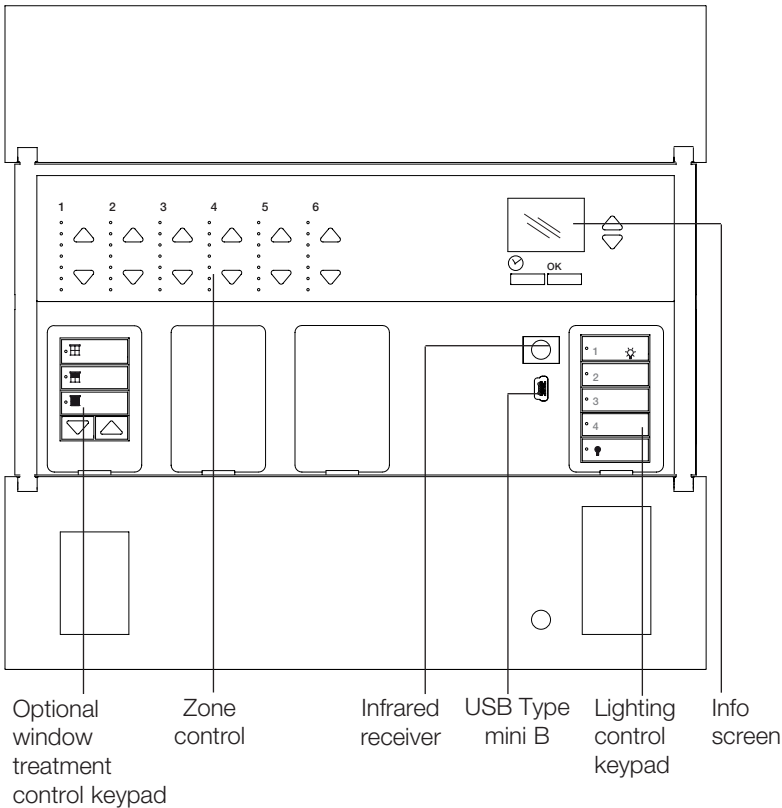
Job Name:

Model Numbers:

Job Number:



Note: Symbol-based Engraving (-SGN) shown.



Features

- Push button recall of four preset lighting scenes, plus Off.
- Sixteen (16) total available scenes, plus Off scene.
- Zones can control many light source types directly or through power modules.
- Optional integrated window treatment control buttons, which can also be added to the unit after installation.
- Master override buttons to raise and lower all lights.
- Allows setup of lighting scenes and window treatment presets using buttons on the control unit.
- Built-in infrared (IR) receiver.
- External IR connection.
- Built-in astronomic timeclock.
- Info screen shows zone light level percentage, energy savings, zone labeling, and programming.
- Lockout option prevents accidental changes.
- Occupancy sensor input and 24 V=== power for one occupancy sensor.
- QS communication link for seamless integration of lights, motorised window treatments, wallstations, and integration interfaces.
- Compatible with all Lutron QS system components.
- Backlit buttons with engraving make unit easy to locate and operate.
- Available in a variety of colours and finishes.

Job Name:	Model Numbers:
Job Number:	

Specifications

Input Power

- 230 V~ 50 Hz

Environment

- 0 to 40 °C.
- Relative humidity less than 90% non-condensing.

Compliance

- CE

Lighting Sources/Load Types

- Zones on Energi Savr Node products wired to the same QS link
 - Zones on Energi Savr Node with Softswitch
 - Zones on Energi Savr Node for 0-10 V
 - Zones on Energi Savr Node with EcoSystem
 Please refer to “Remote Zone Mapping” for important information.
- DMX channel(s) through DMX output interface (QSE-CI-DMX). Please refer to “Accessory Controls: DMX Output Interface”

Zones can control the following lighting sources with a smooth, continuous square law dimming curve or on a full conduction non-dim basis:

- Incandescent
 - Halogen
 - Magnetic low-voltage transformer
 - Lutron Tu-Wire electronic fluorescent dimming ballast
 - Neon and cold cathode
 - Non-dim (incandescent, magnetic low-voltage, Tu-Wire, or neon/cold cathode)
- Please refer to “Capacities” for more information.

Zones can also control the following lighting sources with a smooth, continuous square law dimming curve or on a full conduction non-dim basis through separate Lutron power modules:

- PHPM-PA-DV, PHPM-PA-120, and PHPM-SW-DV are not CE compliant product and cannot be offered with a 230 V~ CE GRAFIK Eye QS.
- Non-dim (use switching module: GRX-TVI)
- 0–10 V (use TVI)

Note: A zone may be programmed to control only one load type at a time.

Key Design Features

- Lightning strike protection meets ANSI/IEEE standard 62.41-1980. Can withstand voltage surges of up to 6 000 V~ and current surges of up to 3 000 A.
- Tested to withstand 16 kV electrostatic discharge without damage or memory loss.
- RTISS-equipped: Compensates in real time for incoming line voltage variations (no visible flicker with +/-2% change in RMS voltage per cycle, and +/-2% Hz change in frequency per second).
- Power failure retains programming and light level settings for up to 10 years in the event of a power loss.
- The GRAFIK Eye QS supplies 3 Power Draw Units (PDU) on the QS link.
For complete information, see App Note #369405 “Power Draw Units on the QS Link,” (P/N 369405) at www.lutron.com
- Faceplate is hinged at the top and bottom, and stays open at 180° for ease of access.

Scene and Window Treatment Buttons

- Large, rounded buttons are easy to use.
- Backlit buttons with optional engraving make it easy to find and to operate the control unit in low light conditions (backlight can be disabled).
- Optional button engraving is angled up to the eye for easy reading.
- Predefined label stickers are included for field labeling.
- 4 preset lighting scenes, plus Off, are accessible from the front of the control unit.
- 12 additional scenes are stored in the control unit and are accessible from the integral timeclock, seeTouch QS wallstations, and QS interfaces.
- Light levels fade smoothly between scenes. Fade time can be set differently for each scene: 0 to 59 seconds, or 1 to 60 minutes. Maximum fade time from Scene Off is 3 seconds.

Shade Control

- The GRAFIK Eye QS can include up to 3 shade button columns. Each column has backlit open, preset, close, and raise/lower buttons.
- Each shade button column can be programmed to operate one shade or a group of shades. (Shades may be assigned to more than one shade button column).
- Faceplates are available with 1, 2 and 3 shade button columns.

Job Name:	Model Numbers:
Job Number:	

Specifications

Zone Control

- Each zone has a dedicated raise and lower button to adjust the zone.
- Each zone has a dedicated 7 LED bar graph for level status. Percentage of light level and energy saved is displayed on the info screen.
- All zone information has blue backlit LEDs. Backlight turns off when idle for 30 seconds.
- High-end and low-end trim settings are adjustable per zone (high end from 99 to 55%; low end from 45 to 1%).
Note: Trim for remote zones must be adjusted locally on the Energi Savr Node unit.
- Each zone is programmable to only one load type at a time.

Info Screen

- OLED (organic LED) screen is viewable from all angles.
- Screen turns off when idle for 30 seconds.
- Programmable zone labels.
- Programmable scene labels.
- Status of real-time zone percentage and energy savings.
- Programmable timeclock schedules.
- Programmable window treatment labels.
- Selectable display languages:
 - English – Spanish – French
 - Italian – German – Portuguese

Astronomic Timeclock

- Integral to all units.
- 7 daily schedules available.
- One available holiday schedule is programmable by date up to one year in advance.
- 25 events per day maximum.
- Timeclock events are programmable to control scenes that affect any Energi Savr Node QS unit connected on the QS link without changing the local scene on the GRAFIK Eye QS.
- Astronomic times are programmable by integral city database or by entering latitude and longitude. Sunrise/Sunset times automatically adjust throughout the year based on location.
- Automatically adjusts for Daylight Saving Time (DST); DST is programmable.
- Local timeclock events can activate any of the following features:
 - Scenes 1 to 16 and Off
 - Any available window treatment presets
 - Start and End afterhours mode
 - Enable and Disable daylighting for all zones/groups
 - Enable and Disable occupancy for occupancy/vacancy sensors
 - Enable and Disable occupied events for all occupancy sensors

System Communications and Capacities

- Low-voltage type IEC PELV wiring connects control units, wallstations, motorised window treatments, and control interfaces.
- A QS system can have up to 100 devices and 100 zones.

Infrared

- Infrared (IR) receiver allows infrared transmitters to select 8 scenes, raise/lower lighting zones, or raise/lower window treatments.
- Transmitter buttons imitate buttons on faceplate.
- 15 m line of sight range.
- Terminal block infrared input for connection to a wired IR input from third-party equipment.
- IR can be disabled via programming.
- Works with Lutron GRX-IT and GRX-8IT infrared remote controls.

Accessory Controls: seeTouch QS Wallstations (QSWE)

- Wired seeTouch QS keypads provide the following features:
 - Access to one or more of the 16 scenes on the GRAFIK Eye QS Wireless control unit
 - Zone toggle, partitioning, sequencing, fine tune, panic mode, and timeclock enable/disable
 - Contact closure inputs
 - Certain functions are only available on specific wallstation configurations. Refer to the seeTouch QS specification submittal.

Accessory Controls: QS Sensor Module (QSM)

- The QS Sensor Module provides a means to link wired or wireless occupancy sensors or daylight sensors, Pico controls, and wired infrared sensors to a GRAFIK Eye QS control unit via the wired QS link.
 - Occupancy sensors wired (or wirelessly linked) to a QS Sensor Module can be used by one or more GRAFIK Eye QS control units on the wired link.
 - Daylight sensors wired (or wirelessly linked) to a QS Sensor Module can be used by one or more GRAFIK Eye QS control units on the wired link.
 - Infrared sensors can control either one or more zones or scenes on the GRAFIK Eye QS. Functionality varies; refer to the documentation for the QS Sensor Module for details.
 - Pico wireless controls can control either one or more zones or scenes on the GRAFIK Eye QS control unit.
 - Pico wired controls can be used, when connected to a QS Sensor Module, to control one or more zones or scenes on the GRAFIK Eye QS control unit.

Job Name:	Model Numbers:
Job Number:	

Specifications

Accessory Controls: Contact Closure Input/Output Interface (QSE-IO)

- Recalls preset light levels for the following set of scenes on the GRAFIK Eye QS:
 - Scenes 1-4 and Off
 - Scenes 5-8 and Off
 - Scenes 9-12 and Off
 - Scenes 13-16 and Off
- Sequence scenes 5-16, Enable/Disable Zone Lockout, Enable/Disable Scene Lockout, Enable/Disable Panic Mode, Enable/Disable Timeclock.
- Occupancy Sensors. An individual input counts as 1 occupancy sensor for the GRAFIK Eye QS. Each input can be assigned to either Scene Control or Zone Control (please refer to the Occupancy Sensor(s) section of this guide).
- Zone Toggle. Allows an input to toggle one or more zones between programmable preset level(s) and off.
- Shade Output mode. A Shade Column on the GRAFIK Eye QS can be linked to control outputs 1-3 and/or outputs 4-5 on the QSE-IO.

Accessory Controls: DMX Output Interface (QSE-CI-DMX)

- Any zone on the GRAFIK Eye QS control unit can be mapped to any single DMX512 Channel.
- Any zone on the GRAFIK Eye QS control unit can be simultaneously mapped to any three DMX512 channels (providing RGB/CMY control).
- DMX loads cannot be used with daylighting.

Accessory Controls: Ethernet and RS232 Interface (QSE-CI-NWK-E)

- Allows for monitoring and control of the outputs and local scenes of the GRAFIK Eye QS.

Other Accessory Controls and Devices

- Energi Savr Node QS (ESN)

Occupancy Sensor(s)

- The GRAFIK Eye QS works with occupancy sensors through either:
 - Scene Control: Up to 16 sensors activate user-selected occupancy and vacancy scenes.*
 - Zone Control: Up to four sensors per zone activate user-selected occupancy and vacancy zone levels.
- Occupancy sensors may include:
 - Contact closure sensors wired to CCI input on back of GRAFIK Eye QS
 - Wired sensors connected to Energi Save Node QS
 - Wired or wireless sensors connected QS Sensor Module (QSM)
- If any sensor in a group detects occupancy, then the GRAFIK Eye QS will go to the designated occupancy scene or zone level.
- If all sensors in a group detect vacancy, then the GRAFIK Eye QS will go to the designated vacancy scene or zone level.
- Low battery: the Diagnostics screen will display a low battery symbol when applicable.
- If the GRAFIK Eye QS control unit does not receive a signal from an occupancy sensor on the link (usually due to a dead battery), the lights associated with that sensor will go to the occupied level.

Daylight Sensor(s)

- The GRAFIK Eye QS allows daylight sensors to control one or more lighting zones to adjust electric light levels based on measured daylight levels.
- Daylight sensors may include:
 - Wired or wireless sensors connected to a QS sensor module (QSM)
- A daylight sensor can control one or more GRAFIK Eye QS zones:
 - Each zone can be calibrated to target light levels
 - A zone can be controlled by no more than one daylight sensor
- Daylight control can be enabled or disabled on a scene-by-scene basis
 - By default, daylight control is enabled in all scenes

Note: Daylight control through the GRAFIK Eye QS control unit only affects select lighting loads. Shade groups cannot be controlled by daylight sensors. Daylighting does not affect DMX or RGB/CMY DMX loads. Daylighting of Remote Zones linked to Energi Savr Node zones must be configured at the Energi Savr Node unit or through the Energi Savr Node app for *iPod*.

* Applicable only to units that ship with firmware version 9.002 and higher. Previous versions support up to 4 sensors.

Job Name:	Model Numbers:
Job Number:	

Specifications

Contact Closure Input (CCI) with Power Supply Output

- Each GRAFIK Eye QS has one contact closure input (Terminal A).
 - The attached device must provide a dry contact closure or solid-state output.
 - Input is miswire-protected up to 36 V $\overline{=}$.
- The contact closure is capable of accepting the following types of inputs:
 - Maintained (default): The GRAFIK Eye QS control unit will act on both a contact closure and a contact open/release event.
 - Momentary: The GRAFIK Eye QS control unit will act on only contact closure events.
- Each GRAFIK Eye QS can supply 50 mA maximum at 24 V $\overline{=}$.
 - Useful for powering occupancy sensors.
 - An auxiliary power supply must be used if the device requires more than 50 mA.
- The CCI is capable of operating in the following modes
 - Occupancy: If an occupancy sensor is wired directly to the GRAFIK Eye QS.
 - Emergency: This setting allows the GRAFIK Eye QS to work with a LUT-ELI. When an emergency situation is detected, all lights will go to full on, and no operations will be allowed until the emergency signal is cleared.
 - Afterhours: Allows the CCI to start and end the afterhours mode.
 - Timeclock: Allows the CCI to enable and disable the timeclock.
 - Scene Lockout: Prevents the user from making any changes to the control unit. The current scene will stay on until the CCI enables normal operation.
 - Save Never: Prevents any changes from being saved while the CCI is being used.
 - Disable CCI: The CCI will have no effect on the system and will not appear on the list of available sensors.

Security Lockout Password

- A 4-digit password (using characters A to Z and 0 to 9) can be enabled/disabled to lock out access to the Programming Menu.
- By default there is no password enabled on the GRAFIK Eye QS.
- If case the 4-digit password is forgotten, contact Lutron Customer Assistance to regain access.

Remote Zone Mapping

- Map a GRAFIK Eye QS zone directly to an Energi Savr Node output so that programmed scenes in the GRAFIK Eye QS control unit will directly control the output levels of the Energi Savr Node.
- Adjust high-end and low-end trim for remote zones through the Energi Savr Node or Energi Savr app software.
- Change load types of remote zones through the Energi Savr Node or Energi Savr app software.
- Configure daylighting for remote zones through the Energi Savr Node or Energi Savr app software.
- Required:
 - GRAFIK Eye QS control unit with firmware version 7.000 or higher
 - Energi Savr Node unit with firmware version 6.000 or higher
 - Energi Savr app version 6.0.0 or higher (required only if the Energi Savr Node unit has been configured using the app)

Partitioning

- When partition is open, creating one large space, automatically combines lighting preset functions for multiple GRAFIK Eye QS control units.
- When partition is closed, creating two or more smaller spaces, lighting preset functions become independent.
- Requires a QSW2, QSW2-2B or a QSE-IO; a GRX-IRPS infrared transmitter/receiver pair; and a GRX-12VDC power supply for operation.
- If occupancy sensors are required in a partitioned space, note that each room's occupancy sensor(s) will operate independent of the partition status.

Job Name:	Model Numbers:
Job Number:	

Specifications

Capacities		
Zones	Unit Capacity (watts)	Zone Capacity (watts)
3	1 500	500
4	2 000	500
6	2 300	500

Load Type Notes

- For applications with ELV loads or load wattages exceeding the specified capacities, please refer to specifications for Lutron power modules (NGRX-PB-CE; NGRX-ELVI-CE; ELVI-1000-CE).
- Not all loads must be connected; however, connected zones must have a minimum load of 40 W.
- Maximum total lighting load for a magnetic low-voltage zone is 500 VA / 400 W.
- No zone may be loaded with more than 500 W.

System Limits

- The QS wired communication link is limited to 100 devices (wired or wireless) or 100 zones.

Job Name:	Model Numbers:
Job Number:	

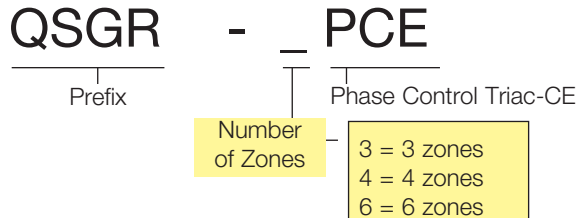
GRAFIK Eye QS

Custom (non-standard) Colour Options and Model Numbers

You must order a Base Unit and a Faceplate Kit

See Standard Colour Combinations page for faceplate, stripe, and button colours

Base Unit



Example:

QSGR-6PCE

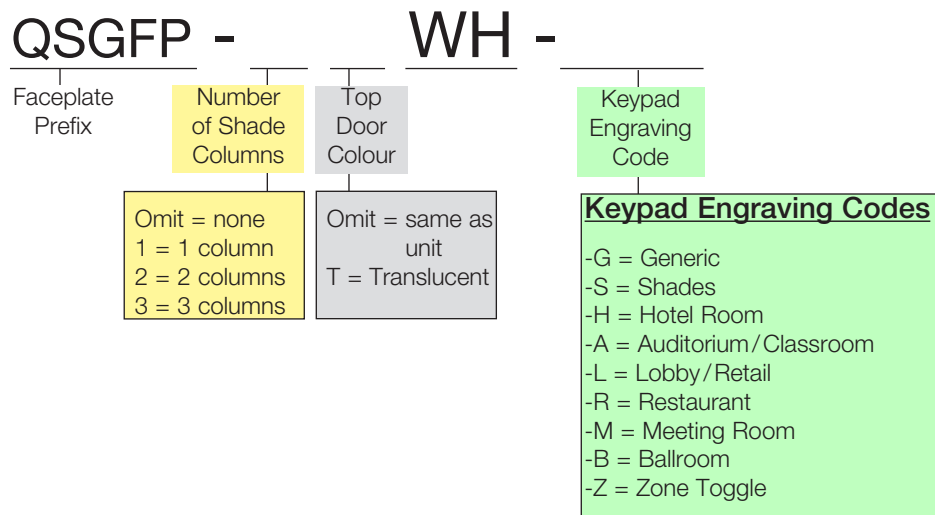
6-zone base unit
and

QSGFP-2WH-G

Ivory faceplate kit with two
window treatment columns and
symbol-based engraving

Standard Engraved Faceplate Kit (WH only)

(includes coordinating stripe and buttons)



Job Name:	Model Numbers:
Job Number:	

GRAFIK Eye QS (continued)**Standard Engraved Faceplate Kit (WH only) (continued)****Generic (-G)**

1	☼
2	
3	
4	
Off	☾

Meeting Room (-M)

All On	☼
Meeting	
A/V	
Cleaning	
All Off	☾

Shades (-S)

Open	☼
Preset 1	
Preset 2	
Preset 3	
Close	☾

Ballroom (-B)

All On	☼
Event 1	
Event 2	
Event 3	
All Off	☾

Hotel Room (-H)

High	☼
Medium	
Low	
Nightlight	
Off	☾

Zone Toggle (-Z)

Zone 1	
Zone 2	
Zone 3	
Zone 4	
Zone 5	

Auditorium / Classroom (-A)

All On	☼
Present	
Lecture	
Exam	
All Off	☾

Lobby/Retail (-L)

All On	☼
Morning	
Afternoon	
Evening	
All Off	☾

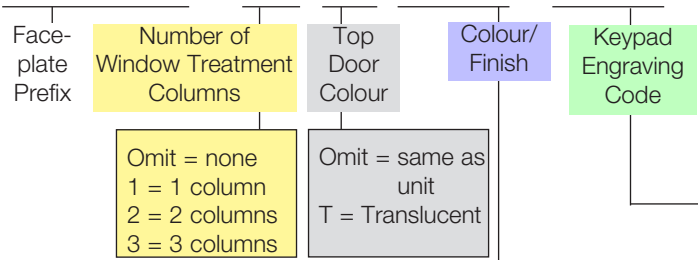
Restaurant (-R)

All On	☼
Breakfast	
Lunch	
Dinner	
All Off	☾

* Standard engraving text does not automatically assign or re-assign system programming to the QS keypad buttons. Project-specific customer input and programming by a Lutron service team member is still required to achieve a desired sequence of operation/system functionality per control.

Job Name:**Model Numbers:****Job Number:**

(includes coordinating stripe and buttons; see Standard Colour Combinations page)



Keypad Engraving Codes

Architectural Matte		Architectural Metal		Satin Colour Matte	
Finishes		Finishes		Finishes	
Standard		Bright Brass	BB	Snow	SW
(ship in 48 hours)		Bright Chrome	BC	Biscuit	BI
White	WH	Bright Nickel	BN	Eggshell	ES
Ivory	IV	Satin Brass	SB	Taupe	TP
Beige	BE	Satin Chrome	SC	Midnight	MN
Gray	GR	Satin Nickel	SN	Limestone	LS
Brown	BR	Antique Brass	QB	Stone	ST
Black	BL	Antique Bronze	QZ	Desert Stone	DS
Almond	AL			Terracotta	TC
Light Almond	LA			Hot	HT
		Anodised Aluminum			
		Finishes		Goldstone	GS
		Clear	CLA	Palladium	PD
		Black	BLA	Plum	PL
		Brass	BRA	Turquoise	TQ
				Bluestone	BG
				Sea Glass	SG
				Greenbrier	GB
				Sienna	SI
				Merlot	MR
				Mocha Stone	MS

Please visit the GRAFIK Eye QS website at **www.lutron.com/grafikeyeqs** for custom engraving forms. Submit completed form with order, and unit will ship engraved as specified by customer.

GRAFIK Eye QS

Custom Options and Model Numbers

See previous page for Custom Model Numbers

See Standard Colour Combinations page for faceplate, stripe, and button colours

Custom Button Kit

QSGB - 5B - WH -

Custom Button
Kit Prefix

Button
Configuration

Button
Colour/
Finish

Keypad
Engraving
Code

3BRL = 3-button with
raise/lower
(window
treatment
column)
5B = 5-button
(lighting keypad)

Button Kit Custom Colour/Finish Codes

Architectural Matte Finishes

White	WH
Ivory	IV
Beige	BE
Gray	GR
Brown	BR
Black	BL
Almond	AL
Light Almond	LA

Satin Colour Matte Finishes

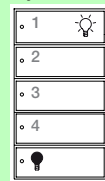
Snow	SW
Biscuit	BI
Eggshell	ES
Taupe	TP

Keypad Engraving Codes

Omit = Unengraved

Ships with engraving certificate that
customer can redeem at no charge

SGN = Symbol-based Engraving



Lighting
keypad



Window
treatment
column

NST = Non-Standard Text Engraving

Please visit the GRAFIK Eye® QS website
at www.lutron.com/grafikeyeqs
for custom engraving forms. Submit
completed form with order, and unit will
ship engraved as specified by customer.

Custom Stripe Kit

QSGS - WH

Stripe
Kit
Prefix

Stripe Colour/
Finish

Stripe Custom Colour/Finish Codes

Same as Faceplate colours on previous page

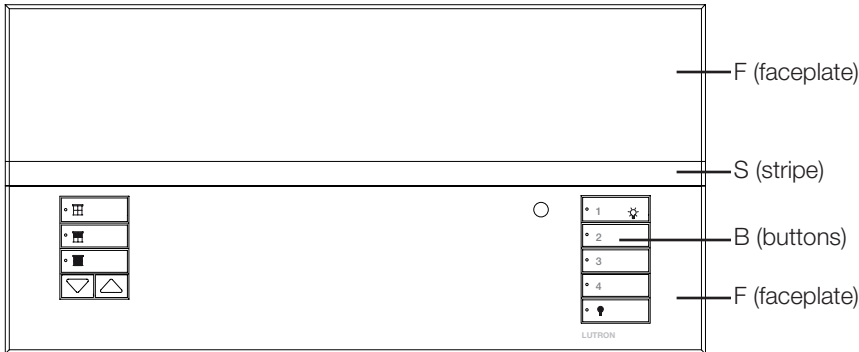
Job Name:

Model Numbers:

Job Number:

GRAFIK Eye QS Standard Colour Combinations

See previous pages for Custom Model Numbers



Faceplate is comprised of a top and bottom. The bottom will always be the colour indicated under “faceplate.” The top may be the same colour or translucent. Use the chart for faceplates that have the same colour top and bottom. If a translucent lid is chosen, the stripe will automatically be the same colour as the bottom lid.

Example:

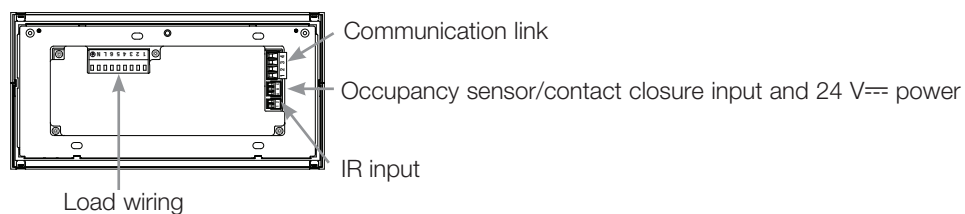
If you order QSGR-4PCE-1WH, your GRAFIK Eye QS with 4 lighting zones and 1 window treatment column will come with a white faceplate (both top and bottom), gray stripe, and white buttons.

Suffix	Faceplate (F)	Stripe (S)	Button (B)	Suffix	Faceplate (F)	Stripe (S)	Button (B)
Architectural Matte				Satin Matte			
WH	White	Gray	White	MN	Midnight	Gray	Black
IV	Ivory	Beige	Ivory	TP	Taupe	Gray	Taupe
BE	Beige	Ivory	Beige	SW	Snow	Gray	Snow
GR	Gray	Black	Gray	ES	Eggshell	Beige	Eggshell
BR	Brown	Black	Brown	BI	Biscuit	Eggshell	Biscuit
BL	Black	Gray	Black	LS	Limestone	Gray	Gray
AL	Almond	Light Almond	Almond	ST	Stone	Gray	Gray
LA	Light Almond	Almond	Light Almond	DS	Desert Stone	Taupe	Taupe
Architectural Metal				TC	Terracotta	Taupe	Taupe
BB	Bright Brass	Black	Black	BG	Bluestone	Gray	Gray
BC	Bright Chrome	Black	Black	HT	Hot	Taupe	Taupe
BN	Bright Nickel	Black	Black	MR	Merlot	Taupe	Taupe
SB	Satin Brass	Black	Black	SI	Sienna	Brown	Brown
SC	Satin Chrome	Black	Black	GB	Greenbrier	Gray	Gray
SN	Satin Nickel	Black	Black	SG	Sea Glass	Gray	Gray
QB	Antique Brass	Black	Black	MS	Mocha Stone	Taupe	Taupe
QZ	Antique Bronze	Black	Black	GS	Goldstone	Ivory	Ivory
Anodised				PD	Palladium	Gray	Gray
CLA	Clear	Black	Black	PL	Plum	Taupe	Taupe
BLA	Black	Black	Black	TQ	Turquoise	Gray	Gray
BRA	Brass	Black	Black				
International Wallbox							
AR	Argentum	Black	Black				
MC	Mica	Gray	Black				
AW	Arctic White	Gray	White				

Job Name:	Model Numbers:
Job Number:	

Wiring Diagrams

Terminations



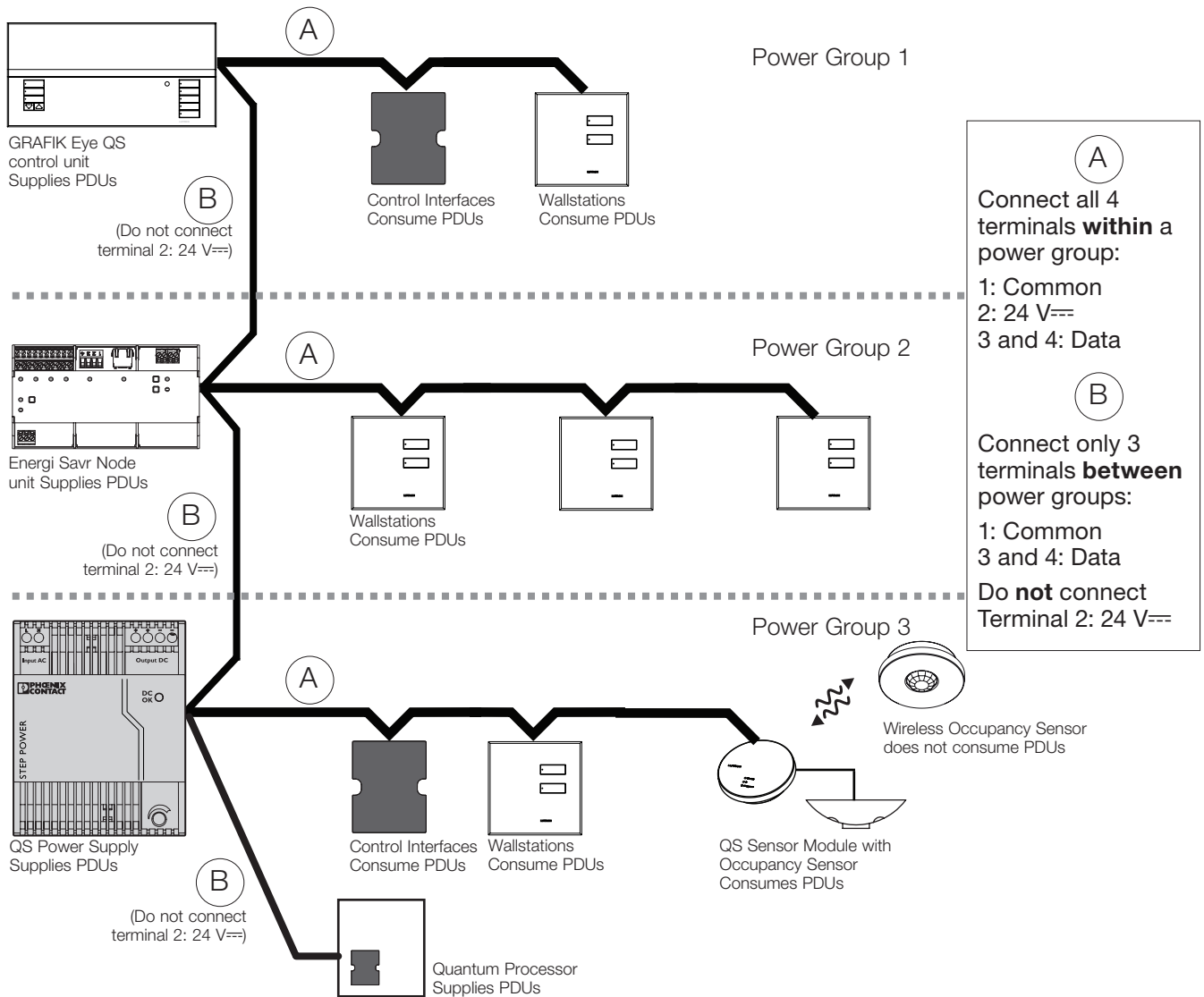
Job Name:	Model Numbers:
Job Number:	

Power Group Wiring Example

On the QS link, there are devices that supply power and devices that consume power. Each device has a specific number of Power Draw Units (PDUs) it either supplies or consumes. A Power Group consists of one device that supplies power and one or more devices that consume power; each Power Group may have only one power-supplying device. Refer to the “QS Link Power Draw Units” specification submittal (Lutron P/N 369405) at www.lutron.com for more information concerning PDUs.

Within Power Groups on the QS link, connect all 4 terminals (1, 2, 3, and 4), shown by the letter A in the diagram. Between devices on the QS link that supply power, connect only terminals 1, 3, and 4 (NOT terminal 2), shown by the letter B on the diagram. Refer to the specific device documentation for wiring details.

Wiring can be T-tapped or daisy-chained.

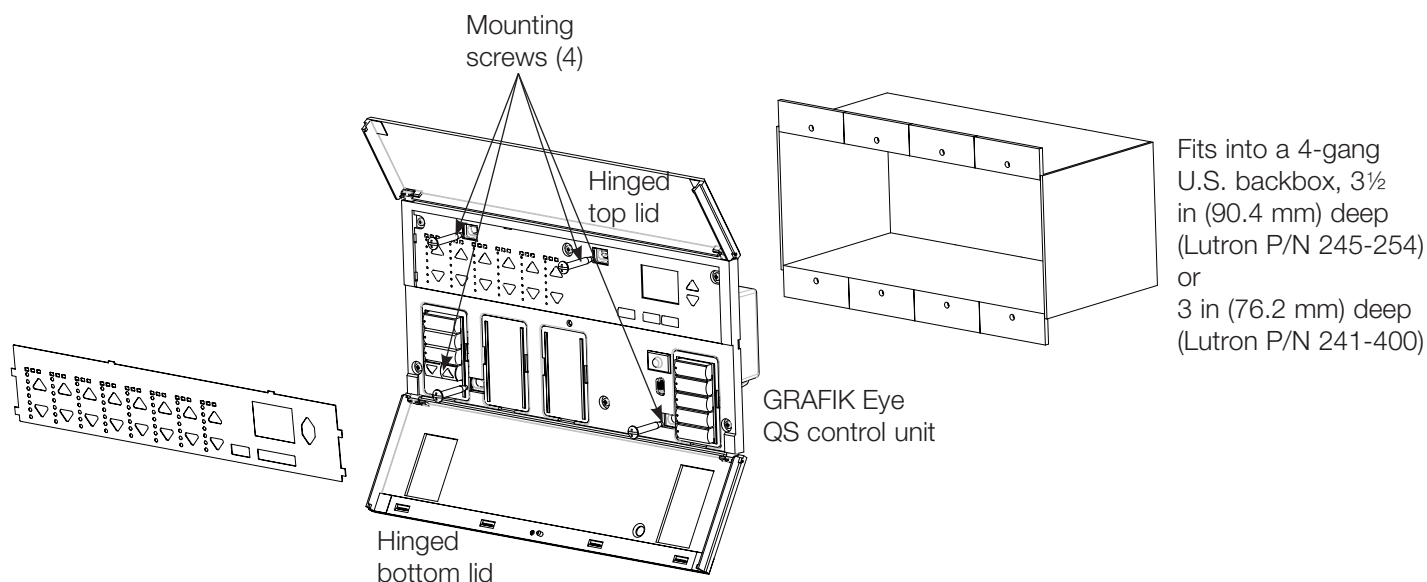


Job Name:

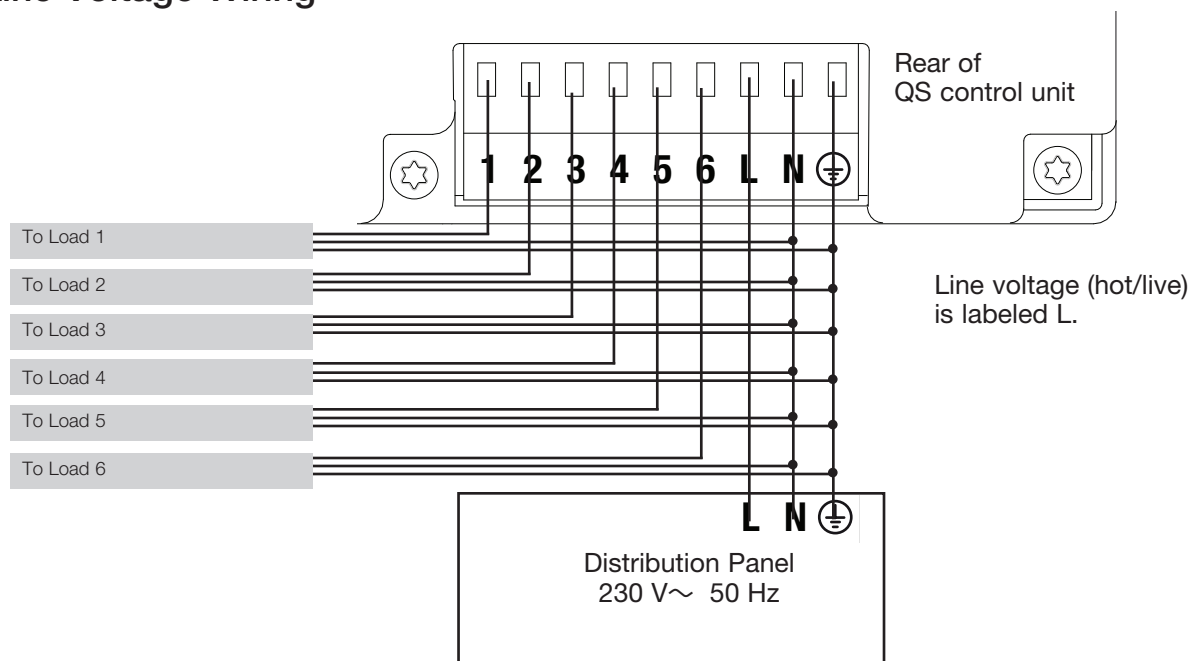
Model Numbers:

Job Number:

Mounting



Line Voltage Wiring



- Pull power wiring from distribution panel and to light fixtures.
- Each line voltage terminal can accept one 4.0 mm² wire.
- Consult Lutron for non-dim relay wiring and/or load side emergency transfer wiring.

Job Name:

Model Numbers:

Job Number:

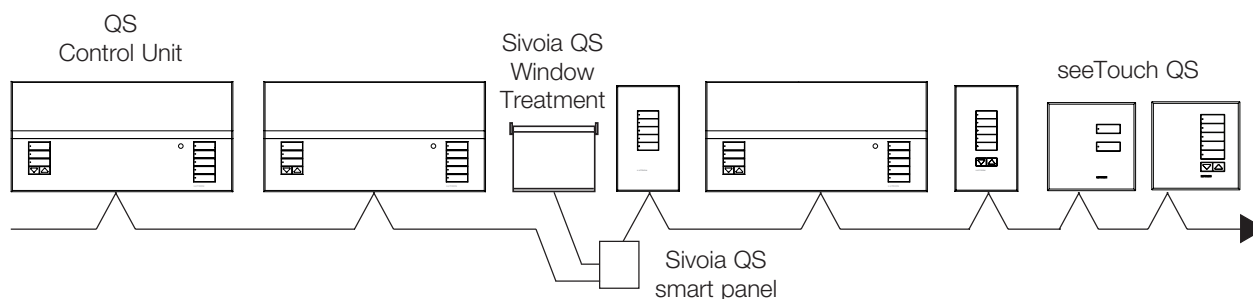
IEC PELV QS System Wiring

- Wiring can be daisy-chained or T-tapped.
- Wiring must be run separately from line/mains voltage.
- Total length of control link must not exceed 610 m.

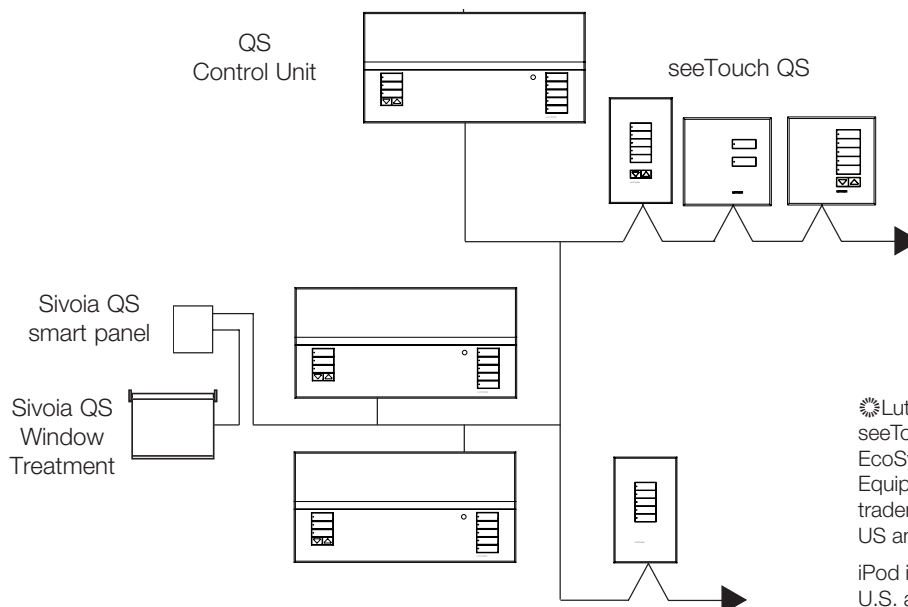
Wire Sizes (check compatibility in your area)

QS Link Wiring Length	Wire Gauge	Lutron Cable Part Number
Less than 153 m	Power (terminals 1 and 2) 1 pair 1.0 mm ²	GRX-CBL-346S GRX-PCBL-346S
	Data (terminals 3 and 4) 1 twisted, shielded pair 0.5 mm ²	
153 to 610 m	Power (terminals 1 and 2) 1 pair 4.0 mm ²	GRX-CBL-46L GRX-PCBL-46L
	Data (terminals 3 and 4) 1 twisted, shielded pair 0.5 mm ²	

Daisy-Chain Wiring Example



T-Tap Wiring Example



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Job Name:	Model Numbers:
Job Number:	