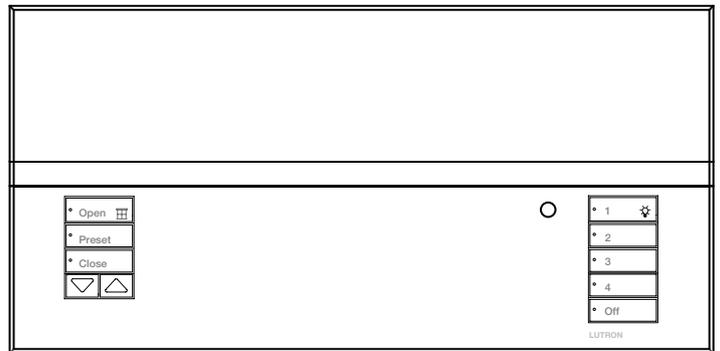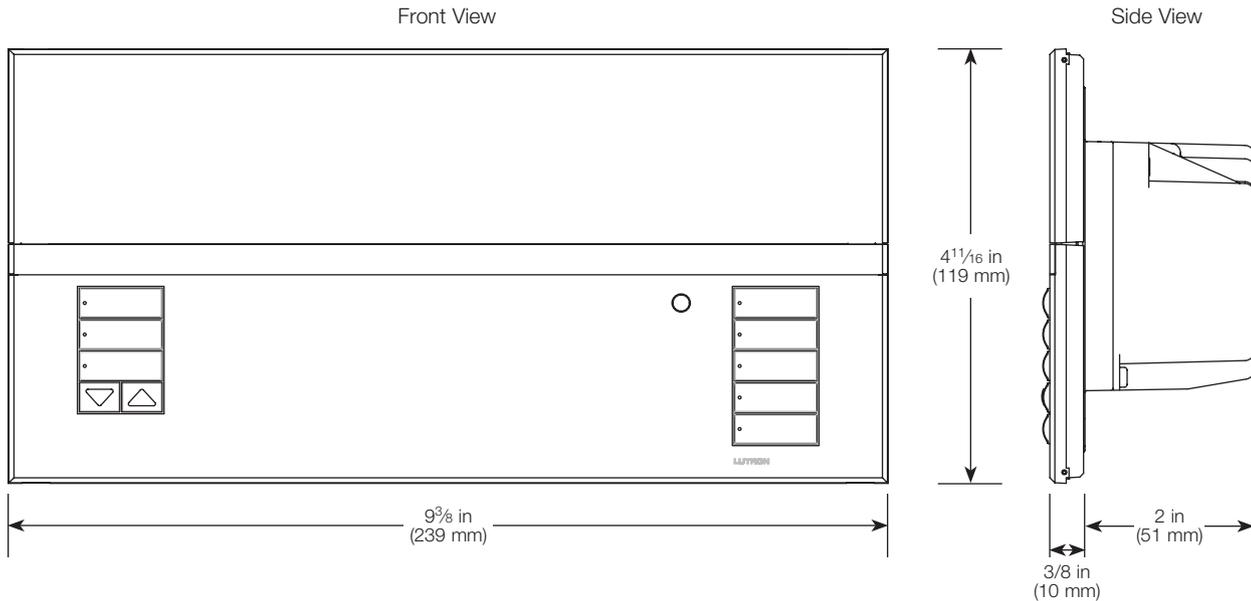## GRAFIK Eye QS Wireless Control Unit

GRAFIK Eye QS Wireless is the premier energy-saving light and shade control. The GRAFIK Eye QS control unit includes an astronomic timeclock, intuitive lighting presets, and direct shade control. Now with wireless technology, you can use the GRAFIK Eye QS Wireless control unit to seamlessly integrate with a variety of Lutron wireless products and systems, including RadioRA 2, Radio Powr Savr occupancy, vacancy, and daylight sensors, Sivoia QS Wireless shades, Pico wireless controls, and other GRAFIK Eye QS Wireless control units. Additionally, the GRAFIK Eye QS Wireless is compatible with all Lutron wired QS products and systems, including Quantum.

Mechanical Dimensions

Front View

Side View

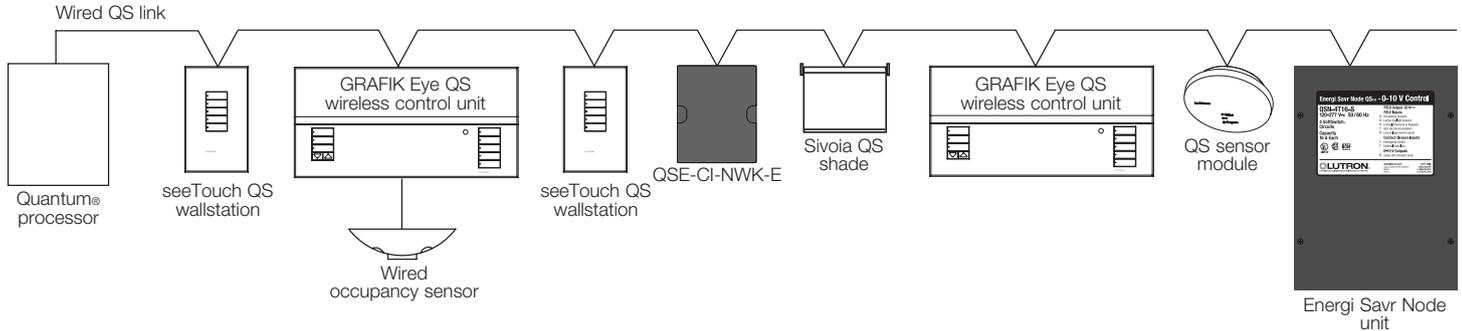
9³⁄₈ in (239 mm)

4¹¹⁄₁₆ in (119 mm)

2 in (51 mm)

3/8 in (10 mm)

Fits into a 4-gang U.S. backbox, 3½ in (90.4 mm) deep (Lutron P/N 245254) or 3 in (76.2 mm) deep (Lutron P/N 241400)

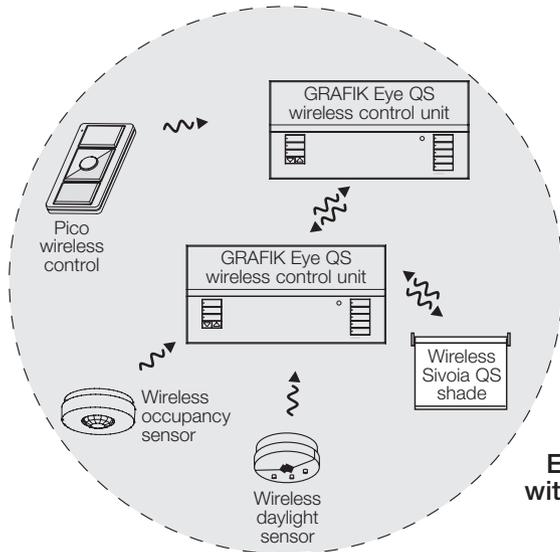| Job Name:	Model Numbers:
Job Number:	

System Topologies

The GRAFIK Eye QS Wireless control unit can be specified in four different system topologies. Examples of each are shown below.

Example of Wired System

Example of GRAFIK Eye-centric Wireless System

30 ft (10 m) wireless range; 60 ft (20 m) in open air

Example of Mixed GRAFIK Eye-centric Wired/Wireless System
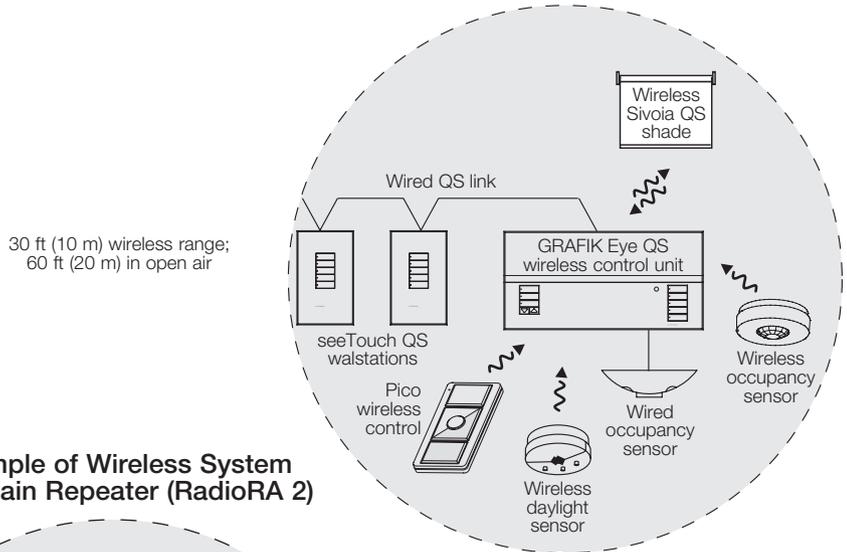
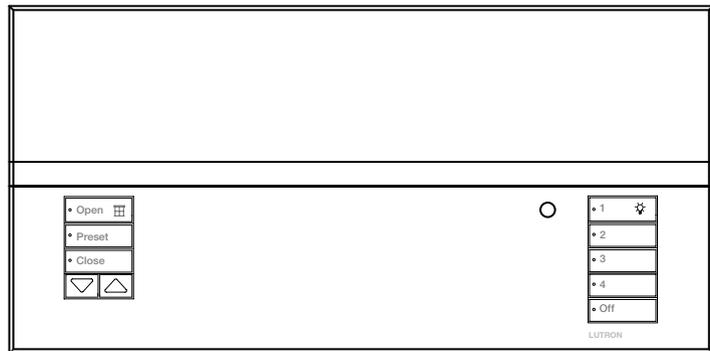### Example of Wireless System with Main Repeater (RadioRA 2)
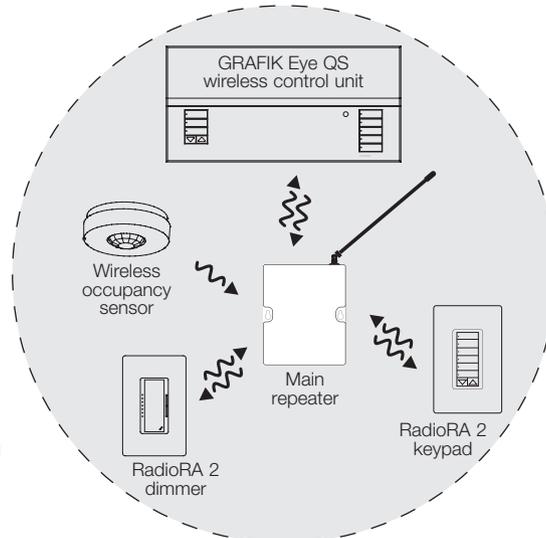
Refer to RadioRA 2 documentation (www.lutron.com/radiora2) for specification information.

Note: Wired QS link is disabled when the GRAFIK Eye QS control unit is added to a RadioRA 2 system.
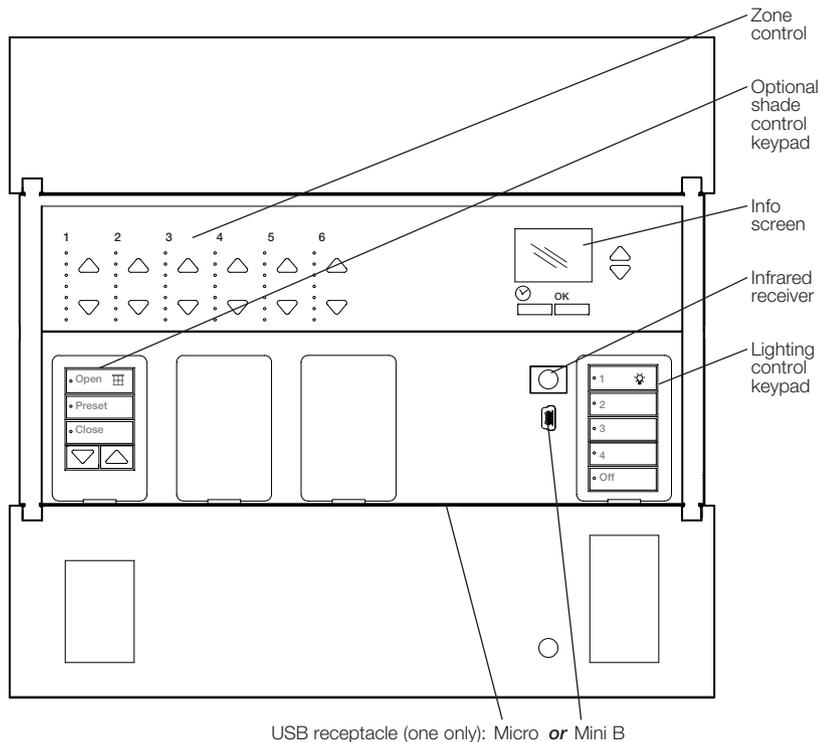
Job Name:	Model Numbers:
Job Number:	

Features

- Lutron proprietary Clear Connect RF technology. Operates in the 434 MHz band.
- 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 shade 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 shade 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, motorized window treatments, occupancy sensors, wallstations, and integration interfaces.
- Compatible with all Lutron QS system components.
- Wireless communication for seamless integration with a variety of Lutron wireless products and systems, including RadioRA 2, Radio Powr Savr occupancy, vacancy, and daylight sensors, Sivoia QS wireless shades, Pico wireless controls, and other GRAFIK Eye QS wireless control units.
- Backlit buttons with engraving make unit easy to locate and operate.
- Available in a variety of colors and finishes.

Note: General Engraving (-EGN) shown.

Zone control

Optional shade control keypad

Info screen

Infrared receiver

Lighting control keypad

USB receptacle (one only): Micro **or** Mini B

Job Name:	Model Numbers:
Job Number:	

Specifications

Input Power
- 120–127 V~ 50/60 Hz
- 220–240 V~ 50/60 Hz

Listings (120–127 V~)
- UL® Listed
- CSA
- NOM
- CEC (Title 24)
- FCC Part 15 Class B
- IC RSS-210
- SCT

Environment
- 32 to 104 °F (0 to 40 °C)
- Relative humidity less than 90% non-condensing

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 also control the following lighting sources with a smooth, continuous square law dimming curve or on a full conduction non-dim basis:
- Cree LR4/6, 120 V~ fixtures (for loading capacities, please refer to the LED report card located at www.lutron.com/LEDtool)
- Dimmable LED Bulbs (for a complete list of approved dimmable LEDs please call 1.800.523.9466 or visit www.lutron.com/dimcflled)
- Incandescent
- Halogen
- Magnetic low-voltage transformer
- Lutron Tu-Wire electronic fluorescent dimming ballast
- Advance Mark X® electronic 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:
- Electronic low-voltage transformers (use ELV or Phase-Adaptive power module)
- Lutron 3-wire controlled electronic fluorescent dimming ballasts (use fluorescent 3-wire power module)
- Lutron 3-wire controlled LED drivers
- Non-dim (use switching module)
- 0–10 V=== (use ten-volt interface)

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

Key Design Features
- RF meets FCC Part 15 Class B.
- Lightning strike protection meets ANSI/IEEE standard 62.41-1980. Can withstand voltage surges of up to 6000 V~ and current surges of up to 3000 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 memory retains programming and light level settings for up to 10 years in the event of a power loss.
- The GRAFIK Eye QS control unit supplies 3 Power Draw Units (PDUs) on the QS link.
  For complete information, see "Power Draw Units on the QS Link," Lutron P/N 369405.
- Faceplate is hinged at the top and bottom, and stays open at 180° for ease of access.

Scene and Shade 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.

Job Name:	Model Numbers:
Job Number:	

Specifications (continued)

Shade Control

- The GRAFIK Eye QS control unit 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.

Wireless shade limitations:

- Access to the Sivoia QS Wireless electronic drive unit (EDU) is required to associate shades with the GRAFIK Eye QS control unit and set their raise/lower limits.
  Exception: Sivoia QS Wireless cellular shades allow limit setting from the GRAFIK Eye QS wireless control unit.
- Wired and wireless shades may not be programmed into the same shade button column; however, both may be used on the same GRAFIK Eye QS control unit.
- Scene commands that affect wireless shades across multiple shade button columns will have a 1-second delay from column to column. This does not occur in RadioRA 2 systems.

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 shade 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 unit connected on the QS link without changing the local scene on the GRAFIK Eye QS control unit .
- 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 shade 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/NEC® Class 2 wiring connects control units, wallstations, motorized shades, and control interfaces.
- A QS system can have up to 100 devices and 100 zones.
- A QS system can have up to 30 wireless devices.

Infrared

- Infrared (IR) receiver allows infrared transmitters to select 8 scenes, raise/lower lighting zones, or raise/lower shades.
- Transmitter buttons imitate buttons on faceplate.
- 50 ft (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.

Job Name:	Model Numbers:
Job Number:	

Specifications (continued)

Accessory Controls: seeTouch QS Wallstations (QSWS2)

- Wired seeTouch QS wallstations 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.

Wireless RF Compatibility

- Features Lutron proprietary Clear Connect RF Technology
- Operates in the 434 MHz band
- Compatible with other Lutron wireless products/systems, such as:
  - Pico wireless control (P/N QSR4P or MRF2)
  - Radio Powr Savr occupancy/vacancy/daylight sensors (P/N LRF2-)
  - RadioRA 2 wireless system
  - Sivoia QS wireless products
  - Other GRAFIK Eye QS wireless control units (P/N QSGRJ-)

Accessory Controls: Pico Wireless Control (PJ models)

- The Pico Wireless Control is battery powered. It can control GRAFIK Eye QS wireless control units within a 30 ft (10 m) range (60 ft [20 m] in open air). It provides the following features:
  - Control of one or more zones on the GRAFIK Eye QS Wireless control unit: turns zone(s) on or off, raises/lowers zone(s), allows programmable light levels for each button, and goes to user-programmable preset level
  - Control of one or more scenes on the GRAFIK Eye QS Wireless control unit: the Pico wireless control can access any three sequential scenes (1 through 16), or any two sequential scenes and Off; and can raise and lower lighting levels.

  Note: "Unaffected" is not a valid level for Pico zone programming.

Accessory Controls: QS Sensor Module (QSM2)

- 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.
  - 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.
  - Infrared sensors can control either one or more zones or scenes on the GRAFIK Eye QS control unit. Functionality varies; refer to the documentation for the QS Sensor Module for details.

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

- Recalls preset light levels for the following set of scenes on the GRAFIK Eye QS control unit:
  - 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 control unit. 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 control unit 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.

Job Name:	Model Numbers:
Job Number:	

Specifications (continued)

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 control unit.

Accessory Controls:
QS Keyswitch Wallstations (QSWS2-KS)

- Recalls preset light levels for any two scenes including Off
- Allows fine-tuning (raise/lower level) of a zone or group of zones
- Starts/Stops scene sequencing (Scenes 1–4 or Scenes 5–16)
- Enables/Disables Timeclock
- Enables/Disables occupancy sensors
- Enables/Disabled daylight sensors
- Allows toggle of Zone(s) to a preset level and off
- Enables/Disables panic mode
- Starts/Stops afterhours mode

Other Accessory Controls and Devices

- Energi Savr Node QS (ESN). See the Specification Submittal for complete details.

Occupancy Sensor(s)

- The GRAFIK Eye QS control unit 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 the GRAFIK Eye QS control unit
  – Wireless Radio Powr Savr occupancy or vacancy sensors (model numbers starting with LRF2)
  – Wired or wireless sensors connected QS Sensor Module (QSM)
- If any sensor in a group detects occupancy, then the GRAFIK Eye QS control unit will go to the designated occupancy scene or zone level.
- If all sensors in a group detect vacancy, then the GRAFIK Eye QS control unit 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.

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

Daylight Sensor(s)

- The GRAFIK Eye QS control unit allows daylight sensors to control one or more lighting zones to adjust electric light levels based on measured daylight levels.
- Daylight sensors may include:
  – Wireless Radio Powr Savr (model numbers starting with LRF2)
  – 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*.

iPod is a trademark of Apple Inc. registered in the U.S. and other countries.

Job Name:	Model Numbers:
Job Number:	

Specifications (continued)

Contact Closure Input (CCI) with Power Supply Output

- Each GRAFIK Eye QS control unit 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⎓.
- 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 control unit can supply 50 mA maximum at 24 V⎓.
  - 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 control unit, choose this setting so that the occupancy sensor will work correctly.
  - 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.
  - Never Save: 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 control unit.
- 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 one QSWS2-2B wallstation, 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:	

Capacities

	220–240 V∼ 50/60 Hz	120 V∼ 50/60 Hz	
Unit Capacity (watts)	3000	2000	
MLV	3000 VA/2400 W	2000 VA/1600 W	
Zone Capacity (watts)	40–1200	25–800	
MLV	40–1200 VA/40–960 W	25–800 VA/25–600 W	

Load Type Notes

- All electronic low-voltage (ELV) lighting used with an interface must be rated for reverse phase control dimming. Before installing an ELV light source, verify with the manufacturer that their transformer can be dimmed. When dimming, an ELV interface (such as the PHPM-PA-DV-WH) must be used with the control unit.
- Not all zones must be connected; however, connected zones must have a minimum load as specified above.
- Maximum total lighting load for a magnetic low-voltage (MLV) varies by input voltage:
  – 120–127 V∼: 800 VA/600 W
  – 220–240 V∼: 1200 VA/960 W
- Maximum total lighting load for Lutron Tu-Wire and Advance Mark X® electronic dimming ballasts (120 to 127 V∼ only) must not exceed 6 A per zone or 16 A per unit.
- No zone may be loaded with more than the capacity specified above. For higher wattage applications, or for 277 V∼ applications, use Lutron power module PHPM-PA, PHPM-WBX, PHPM-PA-DV, PHPM-SW, or PHPM-WBX-DV.
- For controlling low-wattage loads (CFL, LED) in a non-dim application, contact Lutron Customer Assistance for the appropriate solution.

System Limits

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

Job Name:	Model Numbers:
Job Number:	

GRAFIK Eye QS Wireless Control Unit

Standard Model Numbers

- See following pages for ordering custom (non-standard) model numbers
- See Standard Color Combinations page for faceplate, stripe, and button colors

QSGRJ – __ P – __ __ WH

Prefix

Phase Control Triac

Number of Zones
3 = 3 zones
4 = 4 zones
6 = 6 zones

Number of Shade Columns
Omit = none
1 = 1 shade column

Top Door Color
Omit = White
T = Translucent

White (standard color)
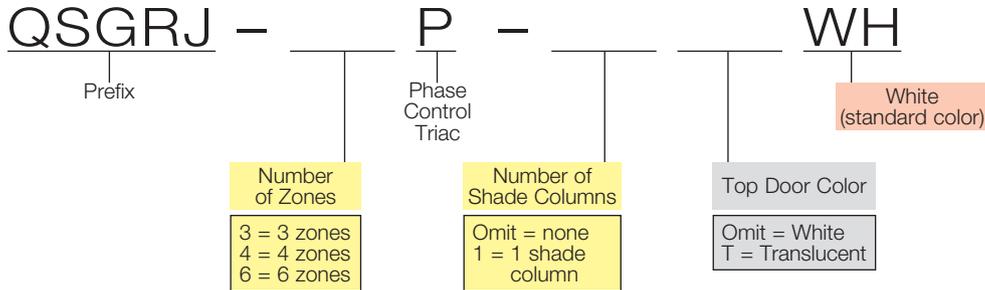
Example:
QSGRJ-6P-1TWH
6-zone standard white unit with 1 shade column and translucent top door.

Unit will ship unengraved with engraving certificate that customer can redeem at no charge.

Available Standard Model Numbers

3 Zones	4 Zones	6 Zones
QSGRJ-3P-WH	QSGRJ-4P-WH	QSGRJ-6P-WH
QSGRJ-3P-TWH	QSGRJ-4P-TWH	QSGRJ-6P-TWH
QSGRJ-3P-1WH	QSGRJ-4P-1WH	QSGRJ-6P-1WH
QSGRJ-3P-1TWH	QSGRJ-4P-1TWH	QSGRJ-6P-1TWH

Important Note:

For any non-standard units, you must order **both** a Base Unit and a Faceplate Kit. Please see the Custom Ordering Information on the following pages.

Job Name:	Model Numbers:
Job Number:	

GRAFIK Eye QS Wireless Control Unit (continued)

Custom Color Options and Model Numbers

- You must order a Base Unit and a Faceplate Kit
- See Standard Color Combinations page for faceplate, stripe, and button colors

Base Unit

QSGRJ – ___ P

Prefix

Phase Control Triac

Number of Zones

3 = 3 zones
4 = 4 zones
6 = 6 zones

Example:
QSGRJ-**6**P
6-zone base unit.

Faceplate Kit (includes coordinating stripe and buttons)

QSGFP – ___ ___ – ___

Faceplate Prefix

Number of Shade Columns

Omit = none
1 = 1 column
2 = 2 columns
3 = 3 columns

Top Door Color

Omit = Same as unit
T = Translucent

Keypad Engraving Code

Omit = Unengraved
  Ships with engraving certificate that customer can redeem at no charge
EGN = General Engraving

° 1 ☼	° Open ⊞
° 2	° Preset
° 3	° Close
° 4	▽ △
° Off	Shade column

Lighting keypad

NST = Non-Standard Text Engraving
  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

Example:
QSGFP-**2IV**-**EGN**
Ivory faceplate kit with 2 shade columns and general engraving.

Faceplate Custom Color/Finish Code

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

Job Name:	Model Numbers:
Job Number:	

GRAFIK Eye QS Wireless Control Unit (continued)

Custom Options and Model Numbers
- See previous pages for Standard and Other Custom Model Numbers
- See Standard Color Combinations page for faceplate, stripe, and button colors

Custom Button Kit

QSGB – _____ – _____ – _____

Custom Button Kit Prefix

Button Configuration

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

Button Kit Custom Color/Finish Code

Architectural Matte Finishes		Satin Color Matte Finishes	
White	WH	Snow	SW
Ivory	IV	Biscuit	BI
Beige	BE	Eggshell	ES
Gray	GR	Taupe	TP
Brown	BR		
Black	BL		
Almond	AL		
Light Almond	LA		

Keypad Engraving Code

Omit = Unengraved
Ships with engraving certificate that customer can redeem at no charge
EGN = General Engraving

1 ☼	Open ⊞
2	Preset
3	Close
4	▽ △
Off	Shade column

Lighting keypad

NST = Non-Standard Text Engraving
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

Example:
QSGB-**5B**-**WH**-**EGN**
White 5-button, lighting keypad button kit with general engraving.

Custom Stripe Kit

QSGS – _____

Stripe Kit Prefix

Stripe Custom Color/Finish Code

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

Example:
QSGS-**WH**
Stripe kit with white stripe.

Job Name:	Model Numbers:
Job Number:	

GRAFIK Eye QS Wireless Control Unit Standard Color Combinations

- F (faceplate)
- S (stripe)
- B (buttons)
- F (faceplate)

- See previous pages for Standard and Custom Model Numbers

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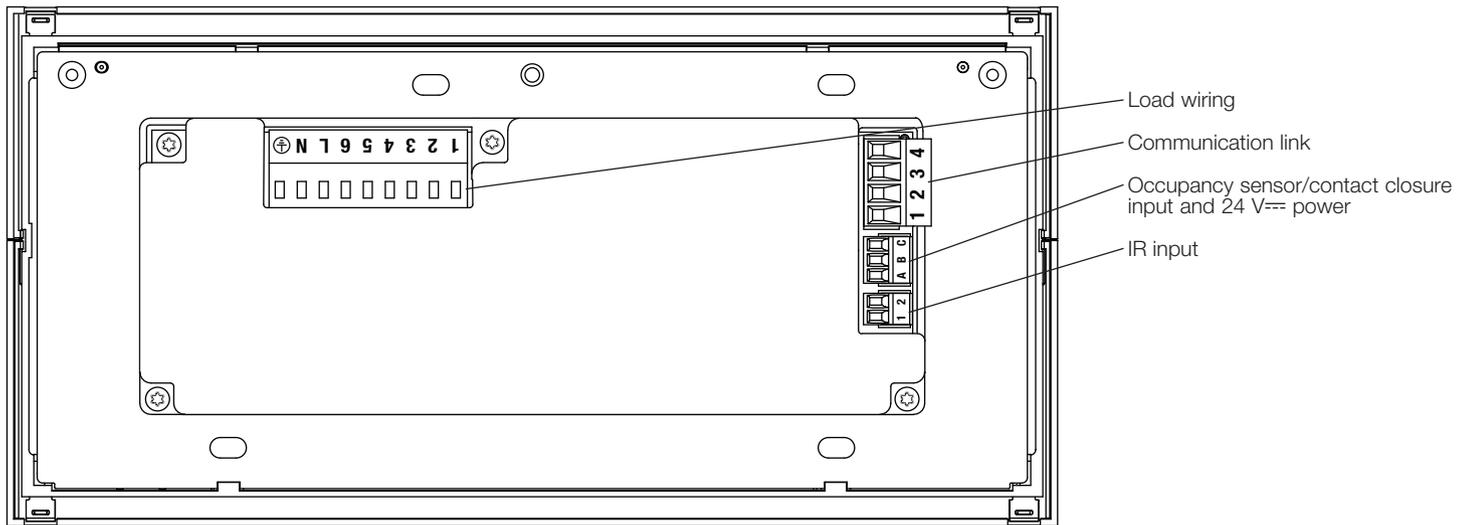
  Example:

  If you order QSGRJ-4P-1WH, your GRAFIK Eye QS with 4 lighting zones and 1 shade zone will have a white faceplate (both top and bottom), gray stripe, and white buttons.

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

Job Name:	Model Numbers:
Job Number:	

Wiring Diagrams

Terminations

Load wiring

Communication link

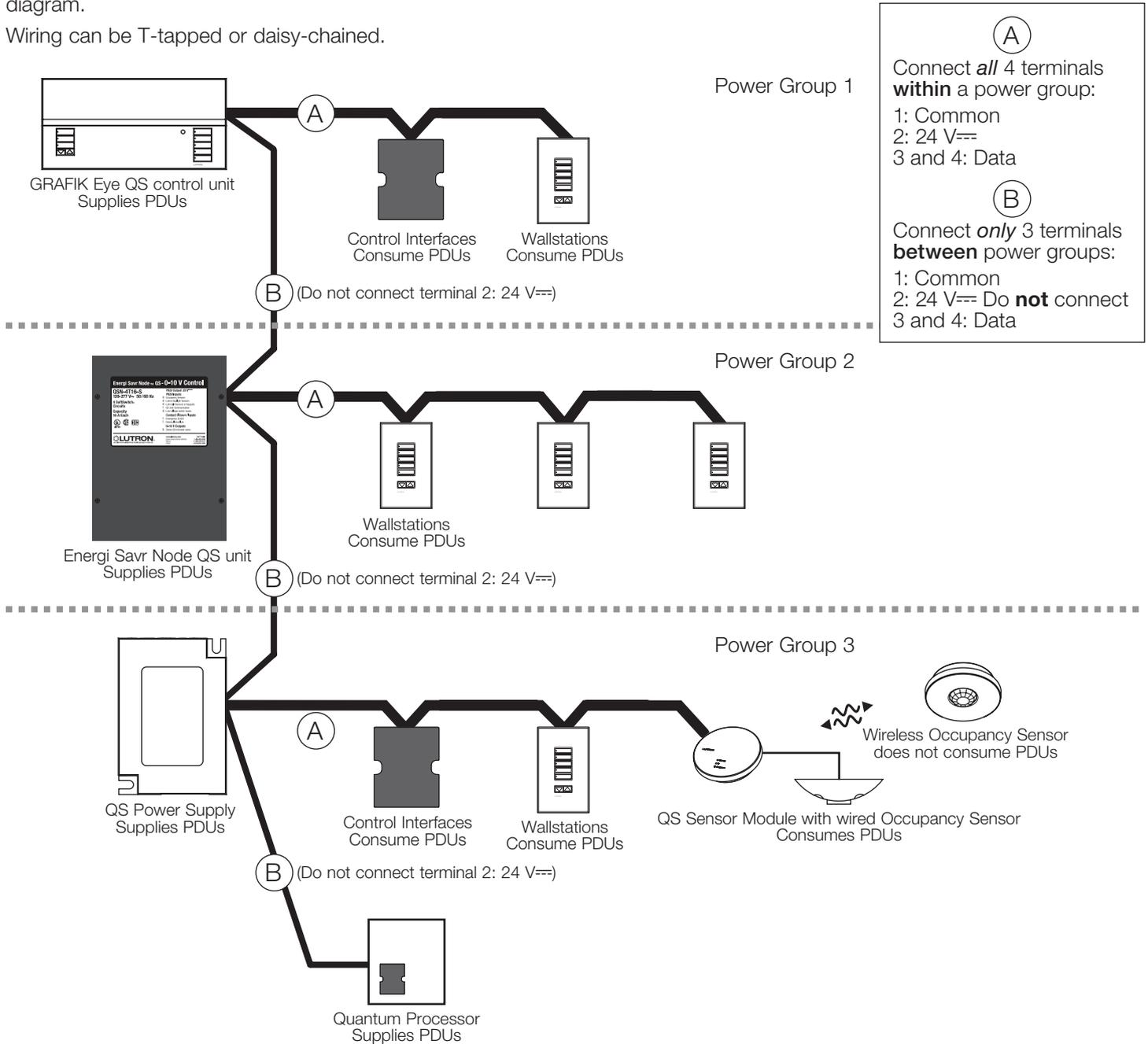Occupancy sensor/contact closure input and 24 V⎓ power

IR input

| 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) 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.

- Wiring can be T-tapped or daisy-chained.

Power Group 1

GRAFIK Eye QS control unit
Supplies PDUs

Control Interfaces
Consume PDUs

Wallstations
Consume PDUs

(A) Connect *all* 4 terminals **within** a power group:
1: Common
2: 24 V⎓
3 and 4: Data

(B) Connect *only* 3 terminals **between** power groups:
1: Common
2: 24 V⎓ Do **not** connect
3 and 4: Data

(B) (Do not connect terminal 2: 24 V⎓)

Power Group 2

Energi Savr Node QS unit
Supplies PDUs

Wallstations
Consume PDUs

(B) (Do not connect terminal 2: 24 V⎓)

Power Group 3

QS Power Supply
Supplies PDUs

Control Interfaces
Consume PDUs

Wallstations
Consume PDUs

Wireless Occupancy Sensor
does not consume PDUs

QS Sensor Module with wired Occupancy Sensor
Consumes PDUs

(B) (Do not connect terminal 2: 24 V⎓)

Quantum Processor
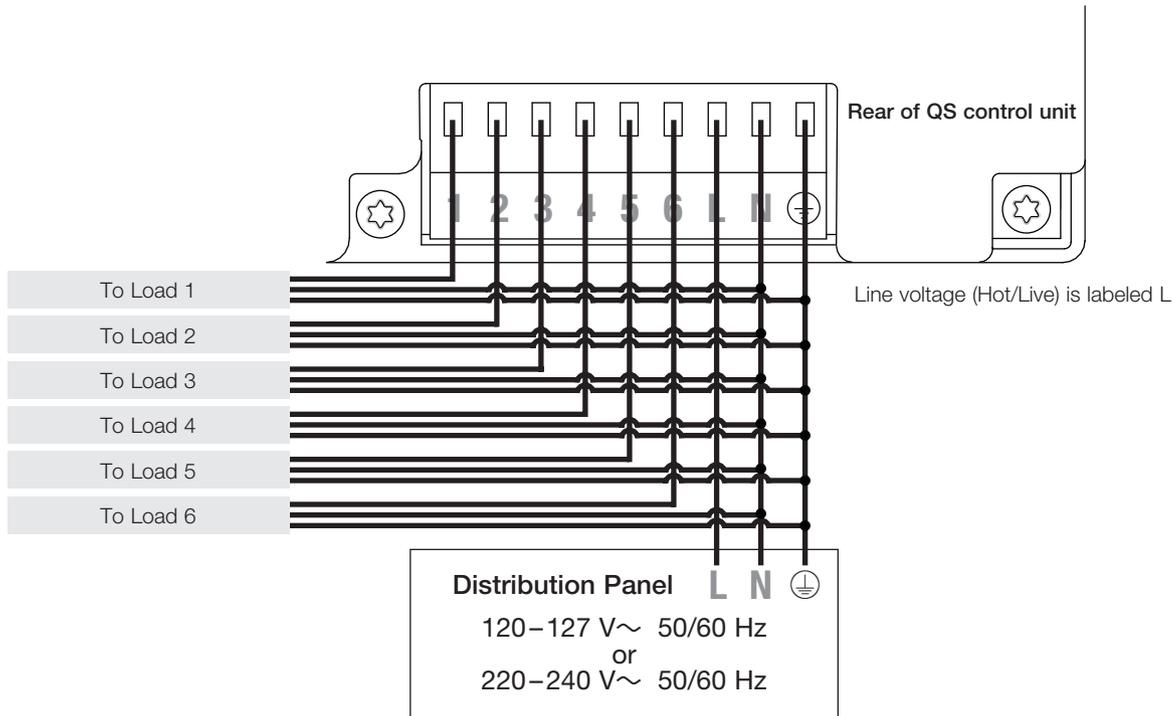Supplies PDUs

Job Name:	Model Numbers:
Job Number:	

Mounting

- Fits into a 4-gang U.S. backbox, 3½ in (90.4 mm) deep (Lutron P/N 245254) or 3 in (76.2 mm) deep (Lutron P/N 241400)

GRAFIK Eye® QS control unit

Hinged top lid

Mounting screws (4)

Hinged bottom lid
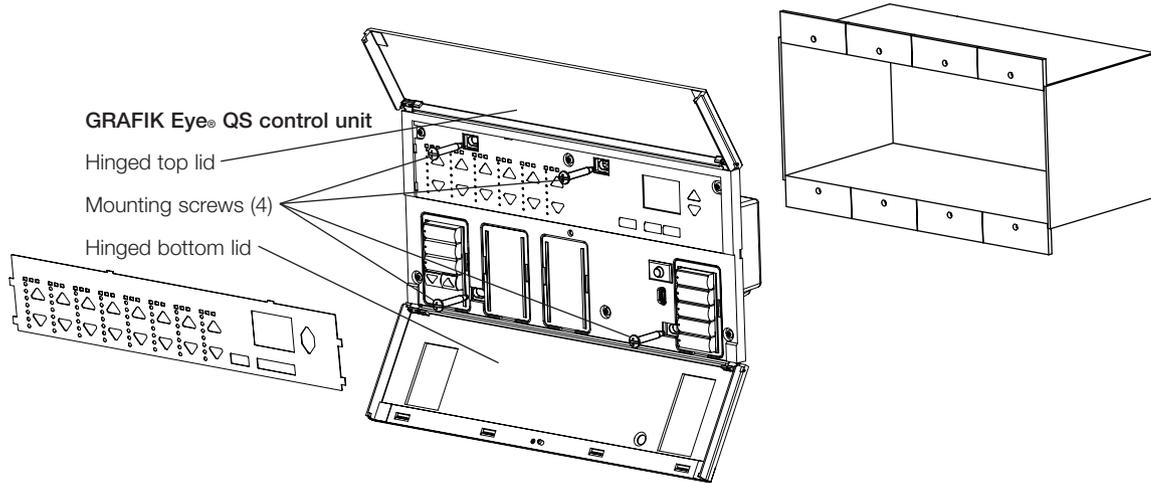
Line Voltage Wiring

- Pull power wiring from distribution panel and to light fixtures.
- Each line voltage terminal can accept one 12 AWG (4.0 mm²) wire.
- Consult Lutron for non-dim relay wiring and/or load side emergency transfer wiring.

Rear of QS control unit

1 2 3 4 5 6 L N

To Load 1

To Load 2

To Load 3

To Load 4

To Load 5

To Load 6

Line voltage (Hot/Live) is labeled L

Distribution Panel L N ⏚
120–127 V∼ 50/60 Hz
or
220–240 V∼ 50/60 Hz

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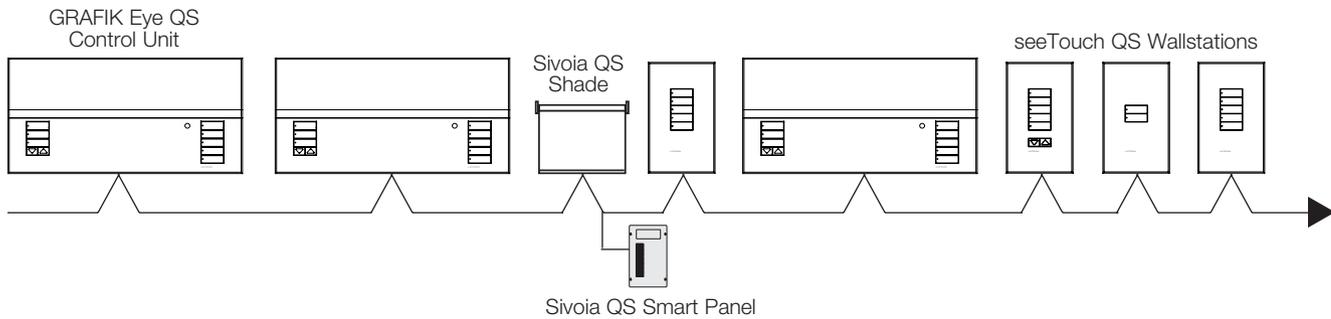| Job Name:	Model Numbers:
Job Number:	

IEC PELV/NEC® Class 2 QS System Wiring

- Wiring can be daisy-chained or T-tapped.
- Wiring must be run separately from line/mains voltage.
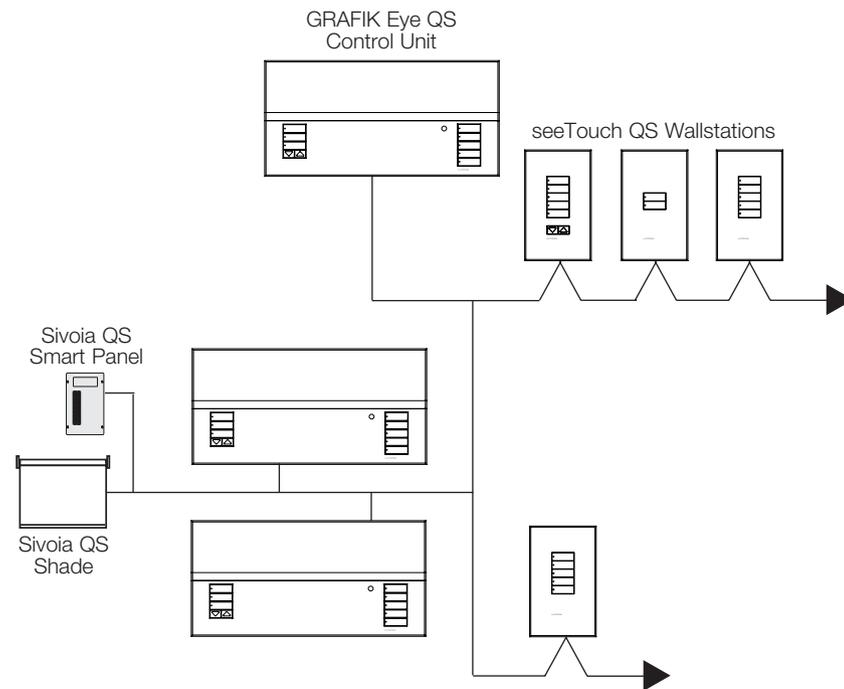- Total length of control link must not exceed 2000 ft (610 m).

Wire Sizes (check compatibility in your area)

QS Link Wiring Length	Wire Gauge		Lutron Cable Part Number
Less than 500 ft (153 m)	Power (terminals 1 and 2) 1 pair 18 AWG (1.0 mm²)		GRX-CBL-346S (non-plenum) GRX-PCBL-346S (plenum)
	Data (terminals 3 and 4) 1 twisted, shielded pair 22 AWG (0.5 mm²)		
500 to 2000 ft (153 to 610 m)	Power (terminals 1 and 2) 1 pair 12 AWG (4.0 mm²)		GRX-CBL-46L (non-plenum) GRX-PCBL-46L (plenum)
	Data (terminals 3 and 4) 1 twisted, shielded pair 22 AWG (0.5 mm²)		

Daisy-Chain Wiring Example

GRAFIK Eye QS Control Unit

Sivoia QS Shade

seeTouch QS Wallstations

Sivoia QS Smart Panel

T-Tap Wiring Example

GRAFIK Eye QS Control Unit

seeTouch QS Wallstations

Sivoia QS Smart Panel

Sivoia QS Shade

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Job Name:	Model Numbers:
Job Number:	