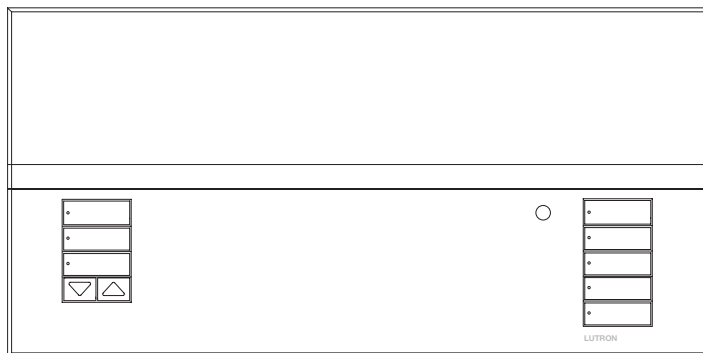# ☼ LUTRON®

GRAFIK Eye® QS Control Unit
Please Read

The GRAFIK Eye® QS control unit allows for control of both lights and window treatments, without interfaces, using a single control unit. Features include pushbutton scene recall, info screen that displays energy savings and status, IR receiver, astronomic timeclock, contact closure input, and engravable backlit buttons that are easy to find and operate.

Model Numbers: QSGRN-6PCE
QSGRQ-6PCE
All units 230 V∿ 50/60 Hz

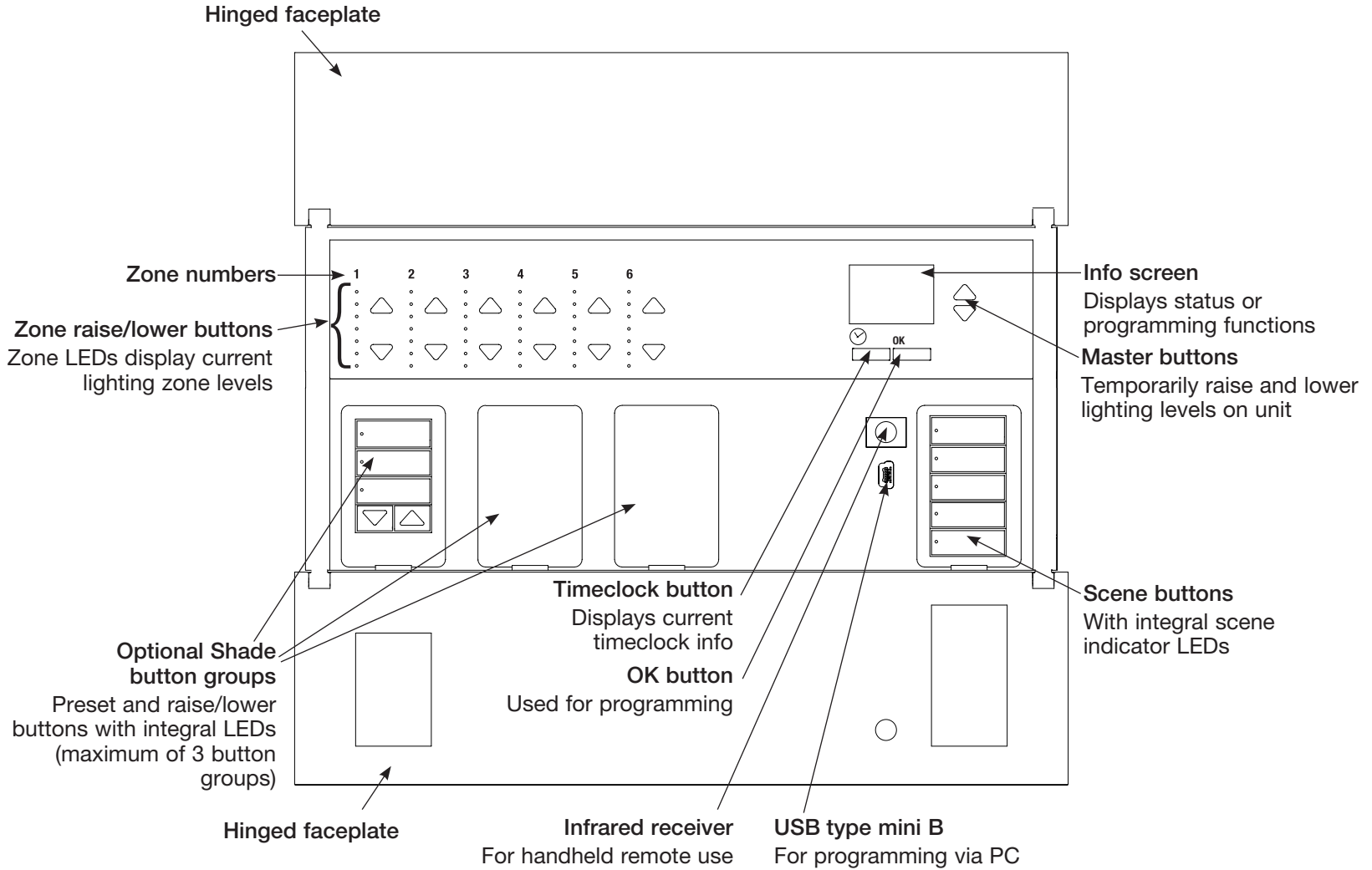| Unit Capacity (watts)	2 300 W
MLV	2 300 VA 1 800 W
Zone Capacity (watts)	40 – 500 W
MLV	40 – 500 VA 40 – 400 W

See page 6 for IEC PELV/NEC® Class 2 ratings.

Contents

For additional features and advanced functions, see the complete installation and operation guide at www.lutron.com/qs

Features and Functions of the GRAFIK Eye® QS Control Unit

Hinged faceplate

Zone numbers

1   2   3   4   5   6

Zone raise/lower buttons
Zone LEDs display current
lighting zone levels

Info screen
Displays status or
programming functions

Master buttons
Temporarily raise and lower
lighting levels on unit

Timeclock button
Displays current
timeclock info

OK button
Used for programming

Scene buttons
With integral scene
indicator LEDs

**Optional Shade
button groups**
Preset and raise/lower
buttons with integral LEDs
(maximum of 3 button
groups)

Hinged faceplate

Infrared receiver
For handheld remote use

USB type mini B
For programming via PC

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Wiring the GRAFIK Eye® QS Control Unit: Overview of Line Voltage/Mains Wiring
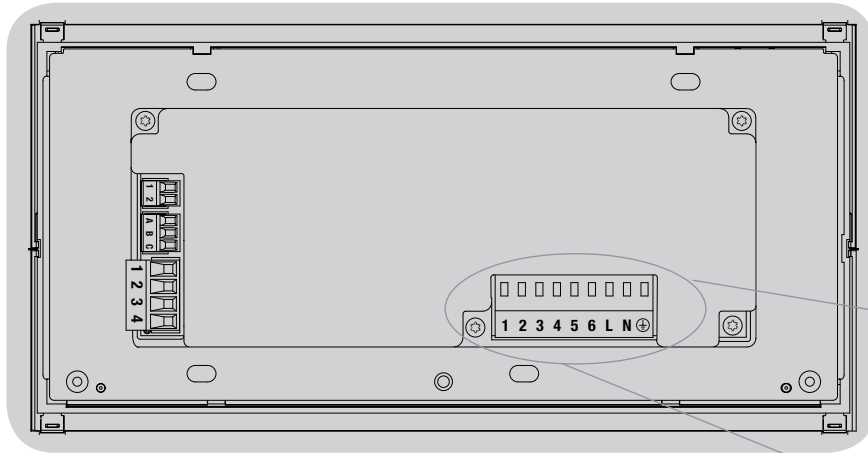
Line Voltage/Mains Cables and Load Wiring

Terminal labels:
L: Hot/Live
N: Neutral
⏚ : Ground
1-6: Dimmed/Switched
    line voltage outputs

4.0 mm² each
terminal

230 V ~ Distribution Panel

Incandescent load

Load controlled by power module or interface

Power module or interface

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For additional information, see the complete installation and operation guide at www.lutron.com/qs
GRAFIK Eye® QS Control Unit Quick Installation and Operation Guide   3
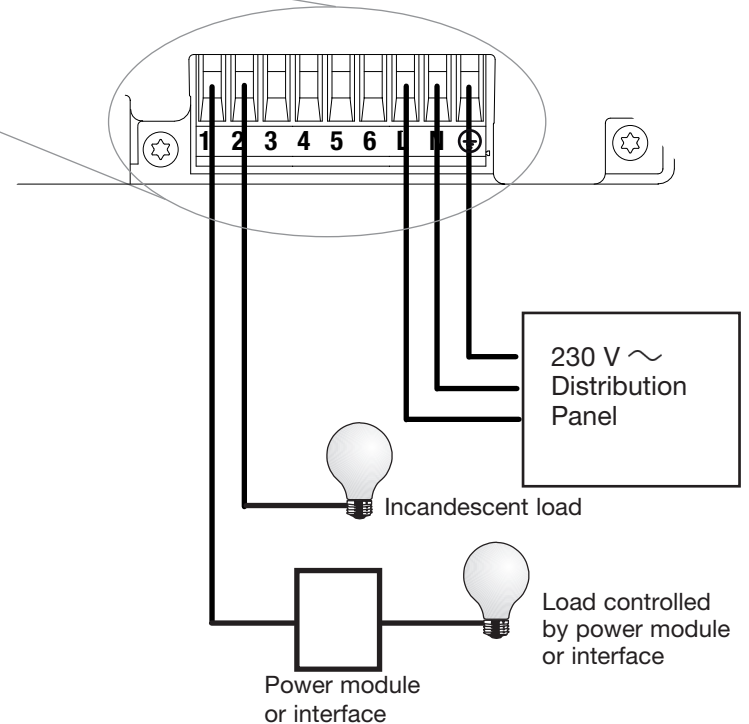
Wiring the GRAFIK Eye® QS Control Unit: Line Voltage Wiring Details

- Use properly certified cable for all line voltage/mains cables.
- Proper short-circuit and overload protection must be provided at the distribution panel. You can use up to a 20 A circuit breaker for your installation.
- Install in accordance with all local and national electrical codes.
- IEC PELV/NEC® Class 2 terminals may be temporarily unplugged for ease of IR, occupancy sensor, and control wiring.
- **Notice: Risk of damage to unit.** Do not connect line voltage/mains cable to IEC PELV/NEC® Class 2 terminals.

Step 1: Install wallbox. Mount an 89 mm deep 4-gang U.S. wallbox on a dry, flat indoor surface that is accessible and allows for system programming and operation. Allow at least 110 mm clearance above and below the faceplate to ensure proper heat dissipation. Allow 25 mm for faceplate overhang on all sides.

Note: 4-gang wallbox available from Lutron; P/N 241400.

Faceplate overhangs wallbox on all sides; allow 25 mm

110 mm
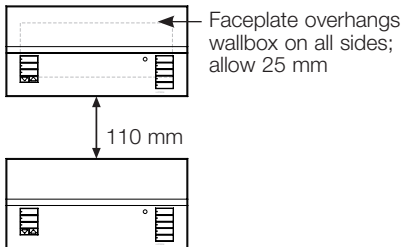
Step 2: Test load wiring.
- Turn power OFF at the circuit breaker or fuse box.
- Connect a standard light switch between the live lead and load wire to test the circuit.
- Turn power ON and check for short or open circuits. If load does not operate, the circuit is open. If the circuit breaker trips (fuse blows or opens), a load short may exist. Correct short or open circuits and test again.

Hot/Live   Switch

Load

Neutral
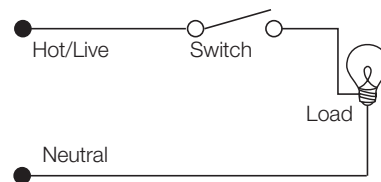
Step 3: Check control unit wiring.
- Earth/ground terminal connection must be made as shown in line voltage wiring diagrams.
- Do not mix different load types on the same zone.
- Follow all local and national electrical codes when installing IEC PELV/NEC® Class 2 wiring with line voltage/mains wiring.

 WARNING! Shock hazard. May result in serious injury or death. Always turn off circuit breaker or remove main fuse from power line before doing any work. Before connecting the loads to the GRAFIK Eye® QS control unit, test the loads for short-circuits.

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For additional information, see the complete installation and operation guide at www.lutron.com/qs
GRAFIK Eye® QS Control Unit Quick Installation and Operation Guide   4

Wiring the GRAFIK Eye® QS Control Unit:
Line Voltage Wiring Details (continued)

Step 4: Connect line voltage and loads to control unit.

• Strip 8 mm of insulation off the line voltage/mains cables in the wallbox.

8 mm

• Connect the line voltage/mains, ground, and load wires to the appropriate terminals on the back of the control unit.

L: Hot/Live

N: Neutral

⏚: Ground

Terminals 1-6: Dimmed/Switched
line voltage outputs

The recommended installation torque is 0.6 N·m for line voltage/mains connections and 0.6 N·m for the earth/ground connection.

Note: See the zone setup section for a list of compatible load types and instructions for programming the GRAFIK Eye® QS control unit to properly recognize them.

Notice: Risk of damage to unit. GRAFIK Eye® QS control units must be installed by a qualified electrician in accordance with all applicable regulations and building codes. Improper wiring can result in damage to control units or other equipment.

Note: To avoid overheating and possible damage to equipment, do not install control units to dim receptacles, motor-operated appliances, or fluorescent lighting not equipped with Lutron Hi-lume®, Eco-10®, Tu-Wire®, electronic dimming ballasts, or other devices approved for your location. In dimmed magnetic low-voltage circuits, you can prevent transformer overheating and failure by avoiding excessively high current flow. Do not operate control units with any lamps removed or burned out; replace any burned out lamps immediately; use only transformers that incorporate thermal protection or fused primary windings. Control units are designed for residential and commercial use, for indoor use only.

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For additional information, see the complete installation and operation guide at www.lutron.com/qs
GRAFIK Eye® QS Control Unit Quick Installation and Operation Guide   5

Wiring the GRAFIK Eye® QS Control Unit: Overview of IEC PELV/NEC® Class 2 Wiring

IR Wiring

1.0 mm² each terminal
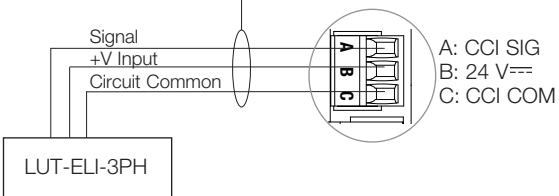
From external IR connection (by others)

1: IR DATA
2: IR COM
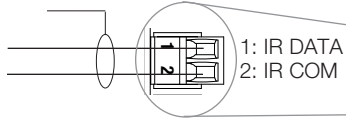
Contact Closure Input Wiring

24 V⎓ 50 mA
For settings, see the full installation and operation guide at www.lutron.com/qs.

A: CCI SIG
B: 24 V⎓
C: CCI COM
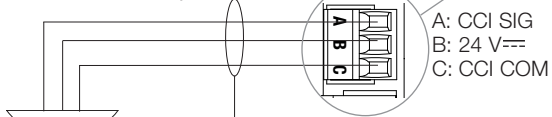
Example:
Occupancy sensor (maximum 1)

1.0 mm² each terminal

Signal
+V Input
Circuit Common

A: CCI SIG
B: 24 V⎓
C: CCI COM

LUT-ELI-3PH

Example:
Emergency lighting interface (maximum 1)

Note: The GRAFIK Eye® QS control unit must be powered by a Normal/Emergency distribution panel for proper ELI operation. Refer to the LUT-ELI-3PH Installation Guide for the complete wiring diagram.
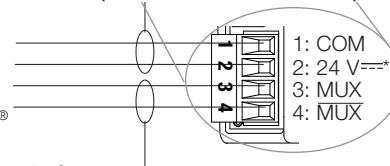
QS Link Control Wiring

24 V⎓ 100 mA

Common and power (terminals 1 and 2):
Two 1.0 mm² each terminal (for link <153 m)
Two 4.0 mm² each terminal (for link 153 to 610 m)

To control stations, window treatments, or other GRAFIK Eye® QS control units

1: COM
2: 24 V⎓*
3: MUX
4: MUX

*Do not connect terminal 2 between any GRAFIK Eye® QS control unit and any other power supply, including another GRAFIK Eye® QS control unit. See "Power Group Wiring" for a detailed wiring example.

Data (terminals 3 and 4):
Twisted, shielded pair 0.5 mm² each terminal

**Note:** Use appropriate wire connecting devices as specified by local codes.

Wiring the GRAFIK Eye® QS Control Unit: QS Link Control Wiring Details

- System communication uses IEC PELV/NEC® Class 2 wiring.
- Follow all local and national electrical codes when installing IEC PELV/NEC® Class 2 wiring with line voltage/mains wiring.
- Each terminal accepts up to two 1.0 mm^2 wires.
- Total length of control link must not exceed 610 m.
- Make all connections in the control unit's wallbox.
- Wiring can be T-tapped or daisy-chained.
- IEC PELV/NEC® Class 2 24 V⎓ 150 mA.

System Limits

- The QS wired communication link is limited to 100 devices or 100 zones.
- The GRAFIK Eye® QS control unit supplies 3 Power Draw Units (PDUs) on the QS link. Refer to the QS Link Power Draw Units specification submittal (Lutron PN 369405) for more information concerning Power Draw Units.

T-Tap Wiring Example
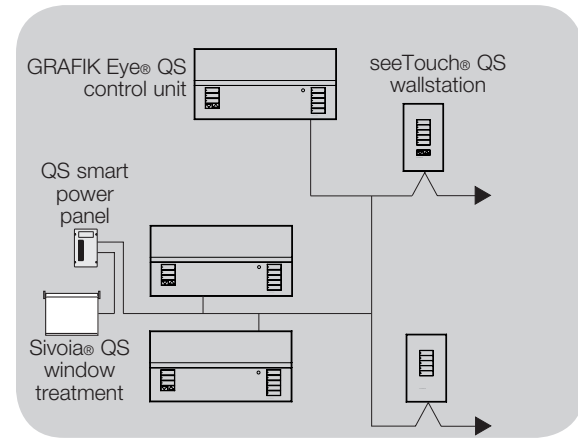
Daisy-Chain Wiring Example
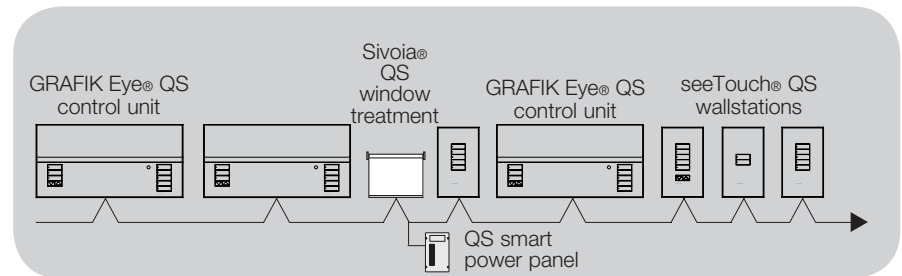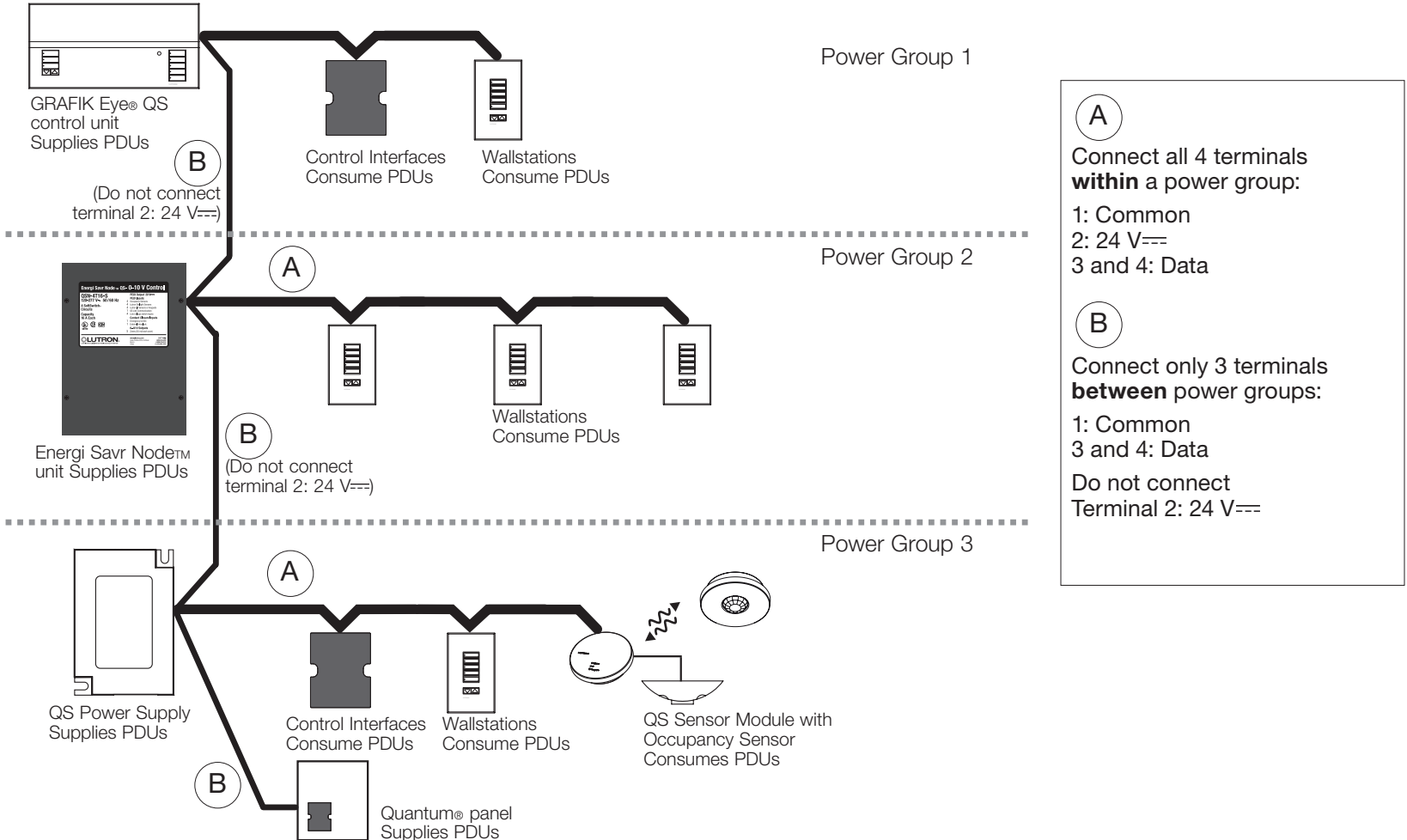

Wire Sizes (check compatibility in your area)

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	

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For additional information, see the complete installation and operation guide at www.lutron.com/qs
GRAFIK Eye® QS Control Unit Quick Installation and Operation Guide   7

Wiring the GRAFIK Eye® QS Control Unit: 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 PN 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

B

(Do not connect
terminal 2: 24 V⎓)

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

Power Group 2

A

Energi Savr Node™
unit Supplies PDUs

B

(Do not connect
terminal 2: 24 V⎓)

Wallstations
Consume PDUs

B

Connect only 3 terminals
between power groups:

1: Common
3 and 4: Data

Do not connect
Terminal 2: 24 V⎓

Power Group 3

A

QS Power Supply
Supplies PDUs

Control Interfaces
Consume PDUs

Wallstations
Consume PDUs

QS Sensor Module with
Occupancy Sensor
Consumes PDUs

B

Quantum® panel
Supplies PDUs

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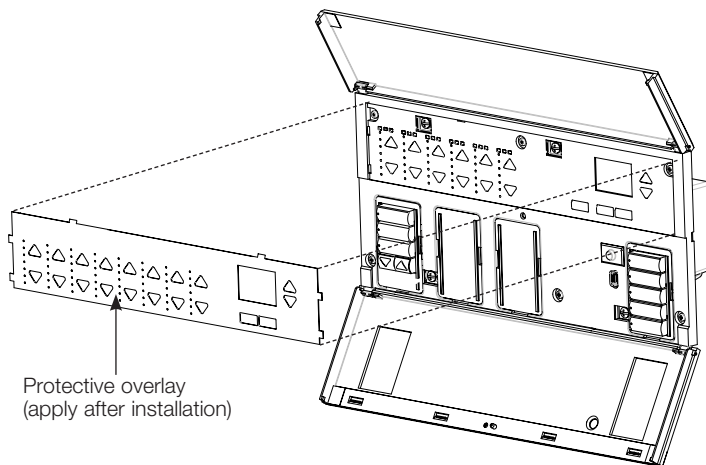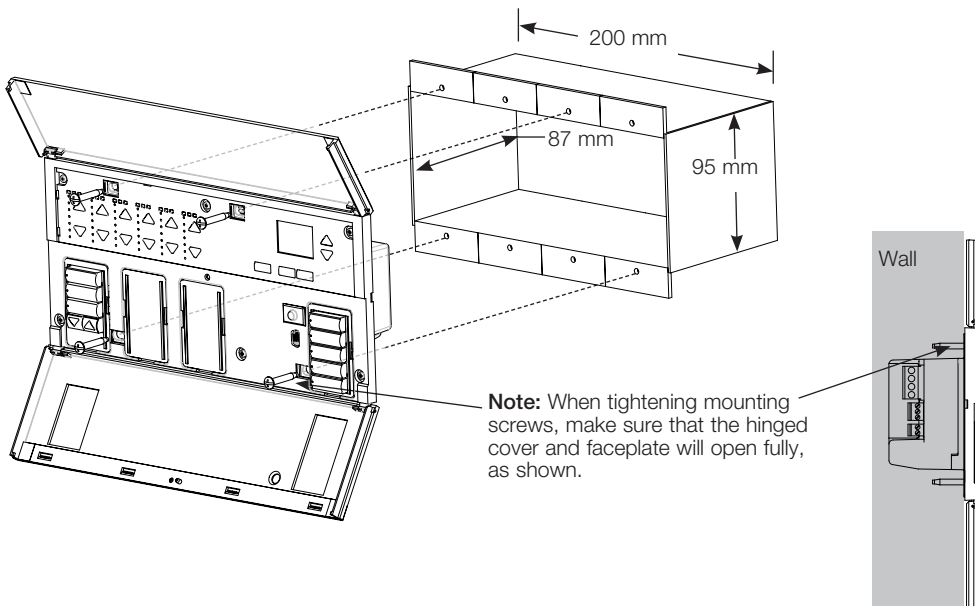# Completing Installation of the GRAFIK Eye® QS Control Unit

1. Mount the control unit in the wallbox as shown using the four screws provided.

   Note: Follow all local and national electrical codes when installing IEC PELV/NEC® Class 2 wiring with line voltage/mains wiring.
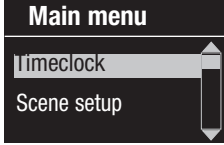
2. Verify installation:
- Restore power.
- Press the top scene button. The LED will light.
- Press the zone raise and lower buttons. Make sure the control unit is dimming all connected loads.

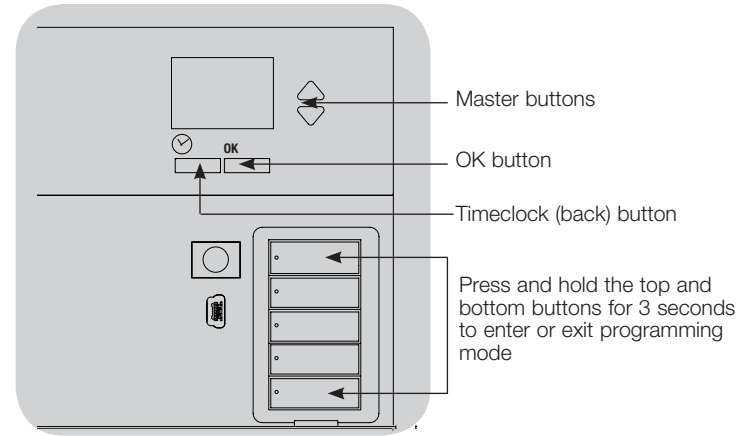3. Apply the protective overlay to the control unit.

200 mm

87 mm

95 mm

Wall

Note: When tightening mounting screws, make sure that the hinged cover and faceplate will open fully, as shown.

Protective overlay
(apply after installation)

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Programming Mode

Entering and Exiting Programming Mode

Main menu
Timeclock
Scene setup

Entering programming mode:
Press and hold the top and bottom scene buttons simultaneously for 3 seconds. The LEDs in the scene buttons will scroll from top to bottom, confirming that you are in programming mode, and the info screen will display the main menu.
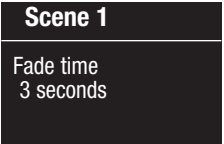
Scene 1
Fade time
3 seconds

Exiting programming mode:
Press and hold the top and bottom scene buttons simultaneously for 3 seconds. The info screen will go to Scene 1.

Master buttons

OK button

Timeclock (back) button

Press and hold the top and bottom buttons for 3 seconds to enter or exit programming mode

Navigating Menus in Programming Mode

Master Buttons
The Master buttons allow you to move through the menu choices. The current choice is highlighted on the info screen.

OK Button
The OK button chooses the current highlighted menu choice. This will either take you to the next menu or accept a setting you have selected. When the screen displays a Yes/No question, the OK button is "Yes".

Timeclock Button
The timeclock button functions as a "back" button during programming mode. Pressing the timeclock button takes you back one step in the current menu. Pressing it repeatedly will eventually return you to the main menu, but will not exit programming mode. When the screen displays a Yes/No question, the Timeclock button is "No".
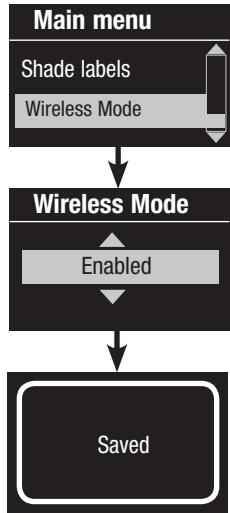
Wireless Mode

Many models of the GRAFIK Eye® QS control unit support wireless communication with other Lutron® products. This feature allows for easy integration of wireless sensors, keypads, remotes, and window treatments for single-room wireless applications.

Units supporting wireless communication are labeled "GRAFIK Eye® QS Wireless" on the front label of the unit.

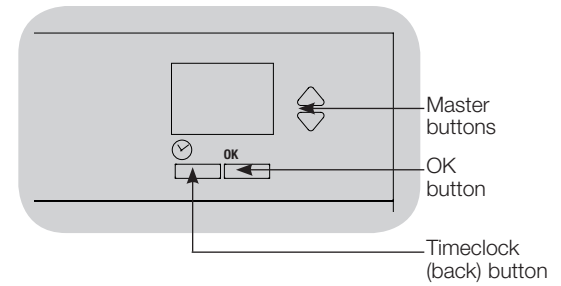The wireless feature of the GRAFIK Eye® QS Wireless control unit has three (3) modes of operation.

- **Disabled:** Use for wired-only systems.
- **Enabled:** The GRAFIK Eye® QS Wireless control unit will respond to any programming commands from nearby Lutron QS wireless (and compatible) products.
- **Ignore Programming (default):** The GRAFIK Eye® QS Wireless control unit will only respond to normal operation commands from wireless devices associated while in Enabled mode.

Changing the wireless mode of the GRAFIK Eye® QS Wireless control unit:

Main menu

Shade labels

Wireless Mode

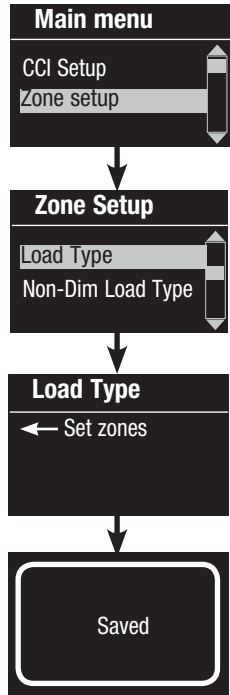**Wireless Mode**

Enabled

Saved

1. Enter programming mode.
2. Use the Master buttons to highlight "Wireless Mode" and press the OK button to accept.
3. Use the Master buttons to highlight the desired wireless mode, and press the OK button to accept.
4. The info screen will display a confirming "Saved" message.
5. Exit programming mode.

   **Note:** The wireless signal has a range of 9 m through standard construction or 18 m line of sight.

Master buttons

OK button

Timeclock (back) button

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Zone Setup

Assigning Load Types

Main menu

CCI Setup
Zone setup

↓

Zone Setup

Load Type
Non-Dim Load Type
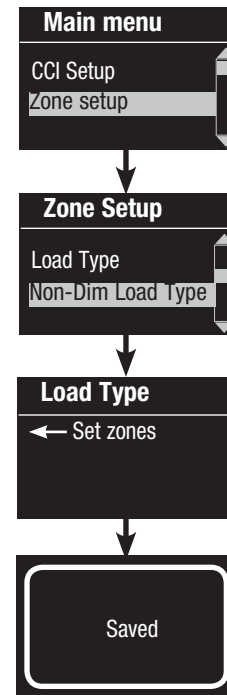
↓

Load Type

← Set zones

↓

Saved

1. Enter programming mode.
2. Use the Master buttons to highlight "Zone setup" and press the OK button to accept.
3. Use the Master buttons to highlight "Load type". Press the OK button to accept. See "Setting Load Types" table on the next page.
4. Use the zone raise/lower buttons to choose the load type for that zone. See the list on the next page for supported load types. Press the OK button to accept.
5. The info screen will confirm that your load type has been saved.
6. Exit programming mode.

Master buttons

OK button

Use the zone raise/lower buttons to choose the load type for that zone.
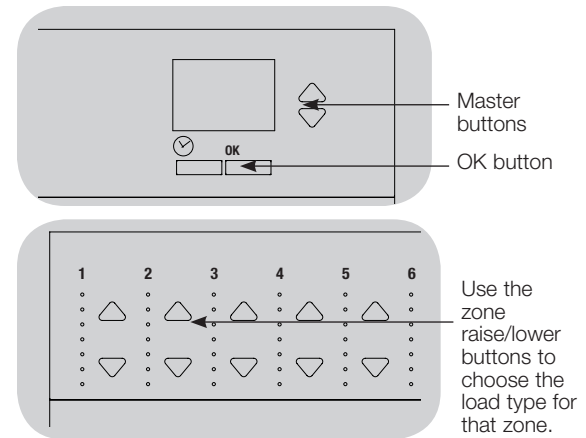
Assigning Non-Dim Load Type

Zones assigned to non-dim loads have three available configurations:

Main menu

CCI Setup
Zone setup

↓

Zone Setup

Load Type
Non-Dim Load Type
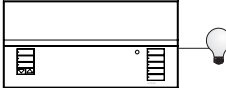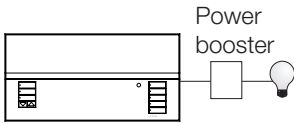
↓

Load Type

← Set zones

↓

Saved

- LOFO: Last On, First Off
- FOFO: First On, First Off
- FOLO: First On, Last Off

Scenes made up of both dim and non-dim load types will toggle the non-dim loads before the dim loads in a "First" on/off configuration, and after the dim loads in a "Last" on/off configuration.

1. Enter programming mode.
2. Use the Master buttons to highlight "Zone setup" and press the OK button to accept.
3. Use the Master buttons to highlight "Non-Dim Load type". Press the OK button to accept. See "Setting Load Types" table on the next page.
4. Use the zone raise/lower buttons to choose the non-dim load type for that zone. (Zones not programmed as non-dim will be displayed as Unaffected.) Press the OK button to accept.
5. The info screen will confirm that your load type has been saved.
6. Exit programming mode.

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Zone Setup (continued)

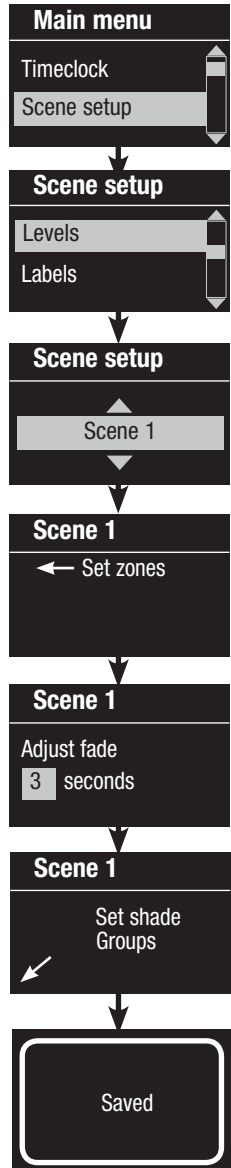| Setting Load Types			
		Direct control via GRAFIK Eye® QS control unit	Control via power booster/module or interface
	Fixture load type	**Choose this load type from the menu on the GRAFIK Eye® QS control unit:**	
Zones 1 – 6	Incandescent	Incandescent	Power module
	MLV (magnetic low-voltage)	MLV	Power module
	ELV (electronic low-voltage)	—	Power module
	Hi-Lume®/Eco-10®	—	Fluorescent module
	0-10 V	—	Fluorescent module
	Non-dim lighting loads	Non-dim	Non-dim
	Neon/Cold cathode	Neon, CC	Neon, CC
	DMX	—	DMX
	RGB/CMY DMX	—	RGB/CMY DMX

Load Type Notes
- For applications with ELV loads, fluorescent loads, or load wattages exceeding the specified capacities, please refer to specifications for Lutron power boosters/modules (NGRX-PB-AU; NGRX-ELVI-AU; NGRX-FDBI-AU). Verify compatibility in your area.
- For all DMX or RGB/CMY DMX lighting, an external DMX interface (such as the QSE-CI-DMX) must be used with the control unit.

Zone ratings:
- Not all zones must be connected; however, connected zones must have a minimum load of 40 W.
- Maximum loads:
  10 A per unit
  500 W per zone.
- Maximum total lighting load for a magnetic low-voltage (MLV) load is 500 VA / 400 W.

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Scene Setup

Setting Zone Levels, Fade Rates, and Window Treatment (Shade) Group Actions

Main menu

Timeclock

Scene setup

Scene setup

Levels

Labels

Scene setup

Scene 1

Scene 1

← Set zones

Scene 1

Adjust fade
3 seconds

Scene 1
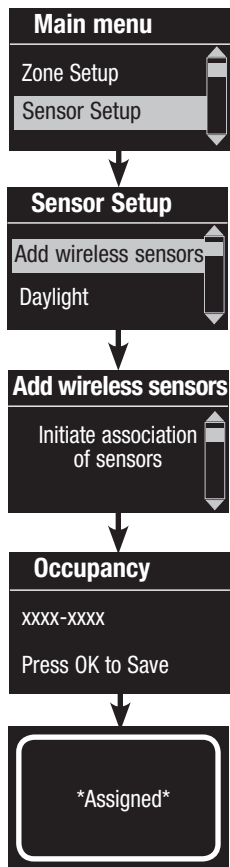
Set shade
Groups
↙

Saved

1. Enter programming mode.
2. Use the Master buttons to highlight "Scene setup" and press the OK button to accept.
3. Use the Master buttons to highlight "Levels" to adjust lighting and/or window treatment levels. Press the OK button to accept. Use the Master buttons to highlight the scene number of your desired scene. Press the OK button to accept.
4. Set each zone to the desired light level for this scene using the zone raise/lower buttons. The info screen will display the zone and percentage as you adjust it.

   To set a zone as unaffected, lower the light levels all the way to off, then hold the zone lower button for 3 seconds. The screen will display "---" and the three middle LEDs for the zone will be lit to indicate this zone is unaffected by the scene (the zone will not change when this scene is initiated).

   When all zones are at the desired level, press the OK button to accept.
5. Use the Master buttons to set the fade time for this scene. Press the OK button to accept.
6. **Note:** This step is applicable only if you have window treatments on your system. If you do not have or do not wish to set window treatment (shade) groups for this scene, press the OK button to skip this step.

   Set each shade group to the desired level for this scene. When all shade groups are at the desired level, press the OK button to accept.
   For shade programming, see the full installation and operation guide at www.lutron.com/qs.
7. The info screen will confirm that your scene has been saved.
8. Exit programming mode.

Master buttons

OK button

Timeclock (back) button

Shade button group

Zone raise

Zone lower

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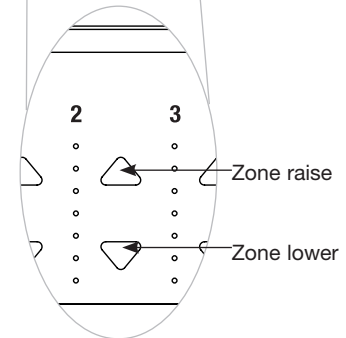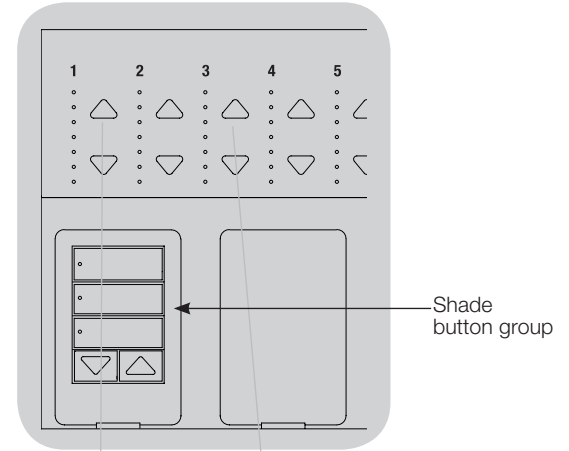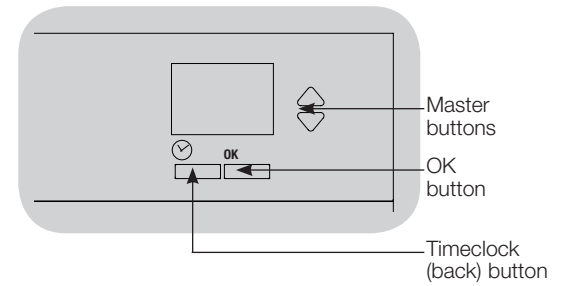
Occupancy Sensor Setup

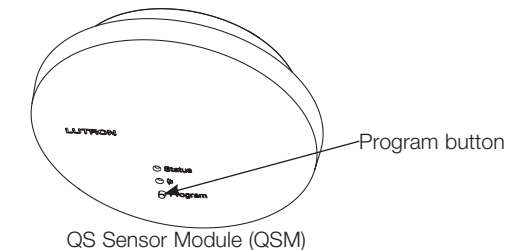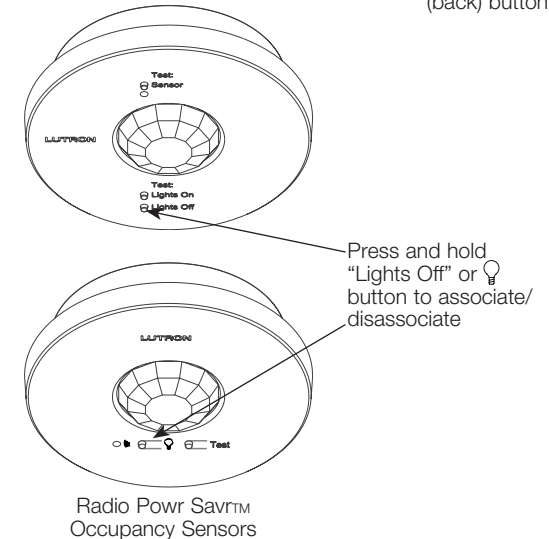**Associating wireless occupancy sensors and GRAFIK Eye® QS Wireless control units (for wireless enabled units only):**

Main menu

Zone Setup

Sensor Setup

↓

Sensor Setup

Add wireless sensors

Daylight

↓

Add wireless sensors

Initiate association of sensors

↓

Occupancy
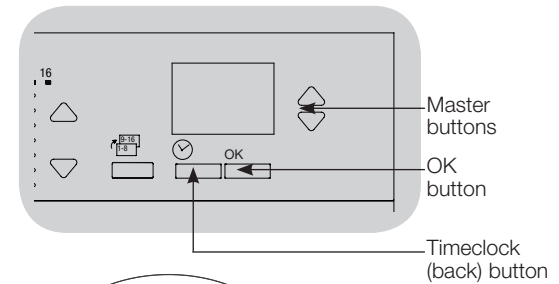
xxxx-xxxx

Press OK to Save

↓

Assigned

1. Make sure the wireless mode of the GRAFIK Eye® QS control unit is "Enabled".
2. Enter programming mode.
3. Use the Master buttons to highlight "Sensor setup" and press the OK button to accept.
4. Use the Master buttons to highlight "Add wireless sensors" and press the OK button to accept.
5. Press and hold the "Lights Off" button (🌑 on some sensors) on the occupancy sensor for 6 seconds. The lens will start flashing and the info screen on the GRAFIK Eye® QS Wireless control unit will display the sensor's serial number.
6. Press the OK button on the GRAFIK Eye® QS control unit. A screen will confirm that the sensor has been assigned. (To disassociate a wireless occupancy sensor from the GRAFIK Eye® QS control unit, Refer to the Radio Powr Savr™ occupancy sensor install guide to return the sensor to its "out-of-box" functionality. Doing so will remove its programming from the GRAFIK Eye® QS control unit.)
7. Repeat the above steps for all desired sensors.
8. Exit programming mode.

Associating wireless occupancy sensors through QS Sensor Modules (QSM):

1. Press and hold the Program button on the QSM for 3 seconds to enter programming mode. There will be 1 audible beep and the Status LED will begin flashing. The info screen on the GRAFIK Eye® QS control unit will display that the QSM is in programming mode.
2. Press and hold the "Lights Off" button (🌑 on some sensors) on the occupancy sensor for 6 seconds. There will be 3 audible beeps from the QSM to verify association.
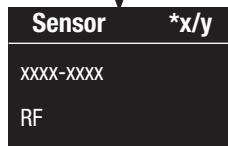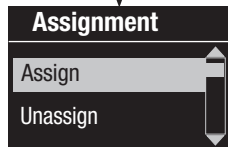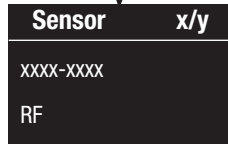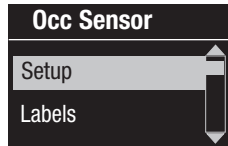3. Press and hold the Program button on the QSM for 3 seconds to exit programming mode.

> **Note:** The wireless signal has a range of 9 m through standard construction or 18 m line of sight.

Master buttons

OK button

Timeclock (back) button

Press and hold "Lights Off" or 🌑 button to associate/disassociate

Radio Powr Savr™ Occupancy Sensors

Program button

QS Sensor Module (QSM)

Occupancy Sensor Setup

Scene Mode

This step allows you to assign up to four occupancy sensors to the GRAFIK Eye® QS control unit.

Master buttons
OK button
Timeclock (back) button

Occ Sensor
Setup
Labels

↓

Searching

↓

Sensor   x/y
xxxx-xxxx
RF

↓

Assignment
Assign
Unassign

↓

Assigned

↓
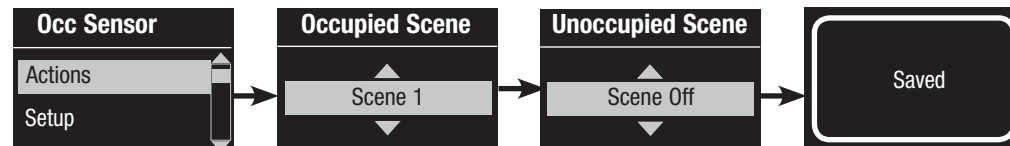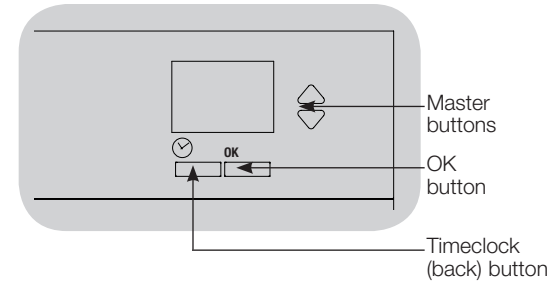
Sensor   *x/y
xxxx-xxxx
RF

Selecting Sensors

1. If not already done, associate occupancy sensors and set to "Scene Mode".

2. Use the Master buttons to highlight "Setup" and press the OK button to accept. The info screen will display "Searching" while the unit detects available occupancy sensors.

3. Use the Master buttons to scroll through the list of available occupancy sensors. When the desired sensor is displayed, press the OK button to select it. Then choose "Assign" or "Unassign" from the following menu and press OK. Once a sensor has been assigned, it will appear with an asterisk (*) in the sensor list. Repeat for additional sensors.

   Note: If wireless sensors are not found, verify that they are associated correctly.
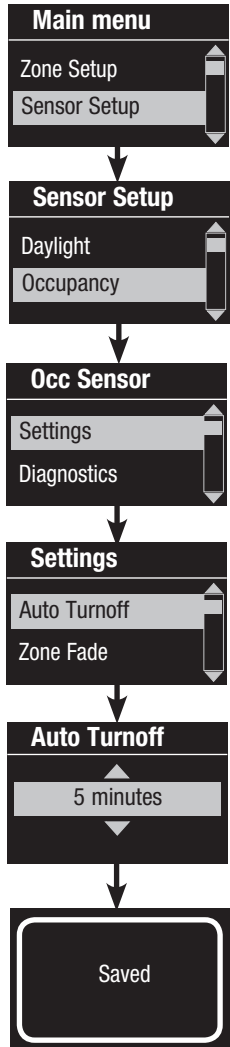
Setting the Sensor Action

1. Press the Timeclock (back) button to return to the Occ Sensor screen. Use the Master buttons to highlight "Actions" and press the OK button. By default, the occupied scene is set to "No Action" and the unoccupied scene is set to "Scene Off".

2. Use the Master buttons to highlight the scene you wish to use for occupied status and press the OK button to accept. Repeat for the scene you wish to use for unoccupied status. Press the OK button to accept.

3. Exit programming mode.

Occ Sensor
Actions
Setup

→

Occupied Scene
▲
Scene 1
▼

→

Unoccupied Scene
▲
Scene Off
▼

→

Saved

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Occupancy Sensor Setup

Configuring Occupancy Sensor Settings (optional)

Main menu
Zone Setup
Sensor Setup

↓

Sensor Setup
Daylight
Occupancy

↓

Occ Sensor
Settings
Diagnostics

↓

Settings
Auto Turnoff
Zone Fade

↓

Auto Turnoff
▲
5 minutes
▼

↓

Saved

Occupancy Sensor Settings

Note: These settings affect all sensors assigned to the GRAFIK Eye® QS control unit.

Grace Period: If the GRAFIK Eye® QS control unit is transitioning to an unoccupied state, motion detected within the grace period will return the lights to the previously occupied level.
Range: 15 – 30 seconds (default 15 seconds).

Vacancy Delay: An additional time delay after vacancy is detected and before unoccupied action occurs. Use when occupancy sensor does not provide sufficient delay.
Range: 0 – 30 minutes (default 0 minutes).

Auto Turnoff: If lights assigned to an occupancy sensor are turned on manually without the sensor reporting occupancy, the GRAFIK Eye® QS control unit can be set to automatically turn off the lights after a set time delay. Disable this feature by setting the time delay to 0 (disabled).
Range: Disabled or 1 – 30 minutes (default Disabled).

Zone Fade: When in Zone Mode, lights can be set to fade to the unoccupied levels over this period of time.
Range: 0 – 59 seconds; 1 – 10 minutes (default 10 seconds).

Configuring the Sensor Settings:

1. Enter programming mode.
2. Use the Master buttons to highlight "Sensor Setup" and press the OK button to accept.
3. Use the Master buttons to highlight "Occupancy" and press the OK button to accept.
4. Use the Master buttons to highlight "Settings" and press the OK button to accept.
5. Use the Master buttons to highlight the setting you wish to configure. Press the OK button to accept.
6. Use the Master buttons to adjust the value of the selected setting. Press the OK button to accept.
7. The info screen will confirm that your setting has been saved.
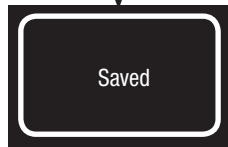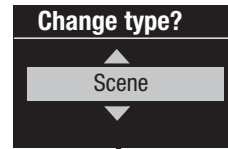8. Exit programming mode.

Master buttons
OK button
Timeclock (back) button

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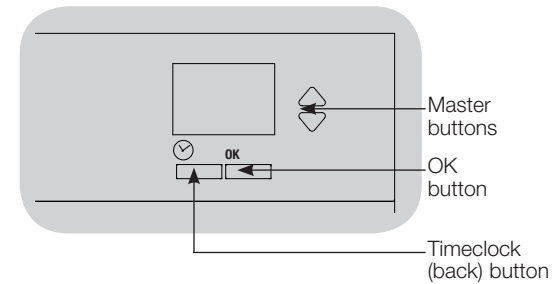
Pico® Wireless Control Setup

Associating the Pico® wireless control with a GRAFIK Eye® QS Wireless control unit:
(for wireless enabled GRAFIK Eye® QS control units only)

Pico
Change type?
Press OK

↓

Change type?
▲
Zone
▼

OR

Change type?
▲
Scene
▼

↓

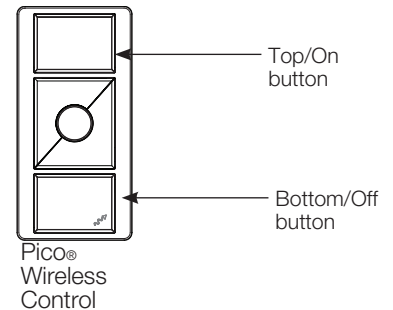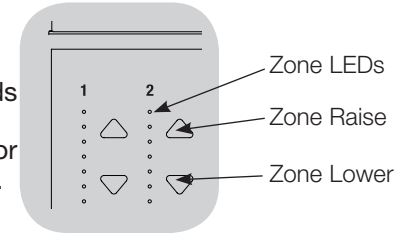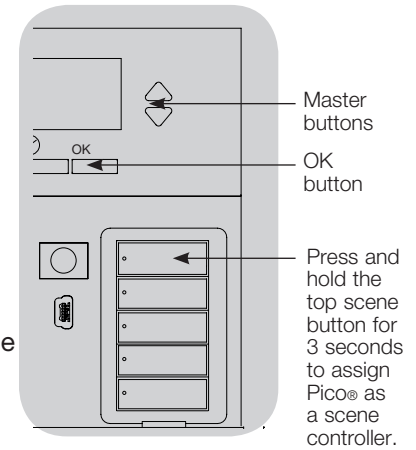| Saved |
| --- |
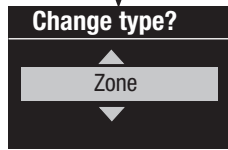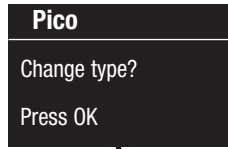
1. Make sure the wireless mode of the GRAFIK Eye® QS control unit is "Enabled".

2. On the Pico® wireless control, press and hold the top (on) and bottom (off) buttons for 3 seconds. The info screen on the GRAFIK Eye® QS control unit will display the Pico® options. Press the OK button on the GRAFIK Eye® QS control unit to select the desired operation type for the Pico®.

3a. To assign the Pico® wireless control as a <u>zone</u> controller, use the Master buttons to select "Zone" and press the OK button to accept. Use the zone raise/lower buttons for a zone to select a desired preset level, and then press the zone raise and lower buttons simultaneously for 1 second (until the zone LEDs flash at the programmed preset level). Repeat for all zones you wish to control with the Pico® wireless control.

OR

3b. To assign the Pico® wireless control as a <u>scene</u> controller, use the Master buttons to select "Scene" and press the OK button to accept. Press and hold the top scene button on the GRAFIK Eye® QS control unit for 3 seconds (until the scene LEDs flash).

4. On the Pico® wireless control, press and hold the top and bottom buttons for 3 seconds until the LEDs on the GRAFIK Eye® QS control unit stop flashing.

Note: The wireless signal has a range of 9 m through standard construction or 18 m line of sight.

Master buttons

OK button

Press and hold the top scene button for 3 seconds to assign Pico® as a scene controller.

Zone LEDs

Zone Raise

Zone Lower

Top/On button

Bottom/Off button

Pico® Wireless Control

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Troubleshooting

Symptom	Possible Causes	Solution
Unit does not power up Unit does not control loads Circuit breaker is tripping	Circuit Breaker is off	Switch circuit breaker on
	Miswire	Verify wiring to unit and loads
	System short circuited	Find and correct shorts
	System overload	Verify zone/unit loading is within ratings (see Zone Setup section)
Zone control does not work Zone control yields incorrect results	Miswire	Make sure loads are connected to the right zones
	Loose or disconnected wire	Connect zone wires to loads
	Burned out lamps	Replace bad lamps
	Incorrect load type selected	Assign the zone to the appropriate load type (see Zone Setup section)
	Dimming limits set incorrectly	Adjust High End/Low End values (see Zone Setup section)
One or more zones are always "full on" and zone intensity is not adjustable Zone control affects more than one zone	Miswire	Make sure loads are connected to the right zones
	Shorted line output	Check wiring; if wiring is correct, call Lutron Technical Support
Faceplate is warm	Normal operation	Solid-state controls dissipate about 2% of the connected load as heat. No action is required
Unit does not allow scene change or zone adjustments	Unit is in wrong save mode	Change to correct save mode
	QS device in system has locked the unit	Check programming and state of QS devices
Cannot program fade time from "Scene Off"	Fade time from "Scene Off" is not programmable; can only program fade time to "Scene Off"	Fade time from "Scene Off" is always 3 seconds
Integral (direct-wired) contact closure input does not work	Miswire	Check wiring on contact closure input
	Input CCI signal is not received	Verify the input device is operating properly
	Unit is in wrong CCI mode and/or type	Change to correct CCI mode and/or type for your application
QS devices on link are not working	Miswire or loose connection on QS link	Verify QS link wiring to all devices
	QS device is not associated	Place the QS device into programming mode, and hold the "Scene 1" button on the GRAFIK Eye® QS control unit to associate the two devices
	QS device programming is incorrect	Verify the functionality and programming on the QS devices
Timeclock events do not occur Sunrise or sunset events do not occur at the correct time	Timeclock is disabled	Enable the timeclock
	Time/date is not set correctly	Set the time/date
	Location is not set correctly	Set the latitude and longitude of the unit's location
	Holiday schedule is in effect	Normal schedule will resume when the holiday ends

Warranty

Lutron Electronics Co., Inc.
One Year Limited Warranty

For a period of one year from the date of purchase, and subject to the exclusions and restrictions described below, Lutron warrants each new unit to be free from manufacturing defects. Lutron will, at its option, either repair the defective unit or issue a credit equal to the purchase price of the defective unit to the Customer against the purchase price of comparable replacement part purchased from Lutron. Replacements for the unit provided by Lutron or, at its sole discretion, an approved vendor may be new, used, repaired, reconditioned, and/or made by a different manufacturer.

If the unit is commissioned by Lutron or a Lutron approved third party as part of a Lutron commissioned lighting control system, the term of this warranty will be extended, and any credits against the cost of replacement parts will be prorated, in accordance with the warranty issued with the commissioned system, except that the term of the unit's warranty term will be measured from the date of its commissioning.

EXCLUSIONS AND RESTRICTIONS

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 unit 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; (f) vandalism; or (g) an act of God, such as fire, lightning, flooding, tornado, earthquake, hurricane or other problems beyond Lutron's control.
2. On-site labor costs to diagnose issues with, and to remove, repair, replace, adjust, reinstall and/or reprogram the unit or any of its components.
3. Equipment and parts external to the unit, including those sold or supplied by Lutron (which may be covered by a separate warranty).
4. The cost of repairing or replacing other property that is damaged when the unit does not work properly, even if the damage was caused by the unit.

EXCEPT AS EXPRESSLY PROVIDED IN THIS WARRANTY, THERE ARE NO EXPRESS OR IMPLIED WARRANTIES OF ANY TYPE, INCLUDING ANY IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. LUTRON DOES NOT WARRANT THAT THE UNIT WILL OPERATE WITHOUT INTERRUPTION OR BE ERROR FREE.

NO LUTRON AGENT, EMPLOYEE OR REPRESENTATIVE HAS ANY AUTHORITY TO BIND LUTRON TO ANY AFFIRMATION, REPRESENTATION OR WARRANTY CONCERNING THE UNIT. 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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TO MAKE A WARRANTY CLAIM

To make a warranty claim, promptly notify Lutron within the warranty period described above by calling the Lutron Technical Support Center at (800) 523-9466. Lutron, in its sole discretion, will determine what action, if any, is required under this warranty. To better enable Lutron to address a warranty claim, have the unit's serial and model numbers available when making the call. If Lutron, in its sole discretion, determines that an on-site visit or other remedial action is necessary, Lutron may send a Lutron Services Co. representative or coordinate the dispatch of a representative from a Lutron approved vendor to Customer's site, and/or coordinate a warranty service call between Customer and a Lutron approved vendor.

This warranty gives you specific legal rights, and 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, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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Contact Information