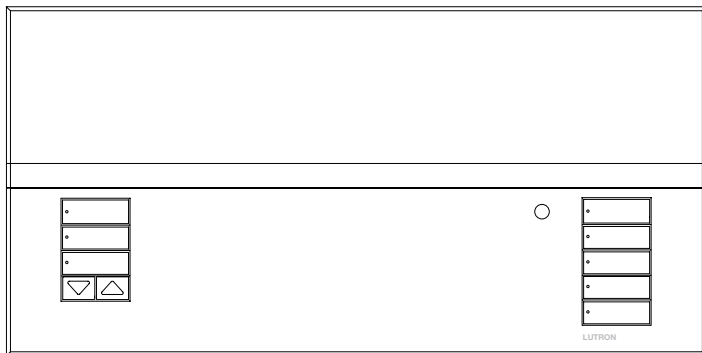


GRAFIK Eye® QS

Quick Installation and Operation Guide

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: QSGRK-3PCE, QSGRK-4PCE, QSGRK-6PCE

QSGR-3PCE, QSGR-4PCE, QSGR-6PCE

All units 230 V~ 50/60 Hz

	QSGRK-3PCE QSGR-3PCE	QSGRK-4PCE QSGR-4PCE	QSGRK-6PCE QSGR-6PCE
Unit Capacity (watts)	1 500 W	2 000 W	2 300 W
MLV	1 500 VA / 1 200 W	2 000 VA / 1 600 W	2 300 VA / 1 800 W
Zone Capacity (watts)	40 – 500 W	40 – 500 W	40 – 500 W
MLV	40 – 500 VA / 40 – 400 W	40 – 500 VA / 40 – 400 W	40 – 500 VA / 40 – 400 W

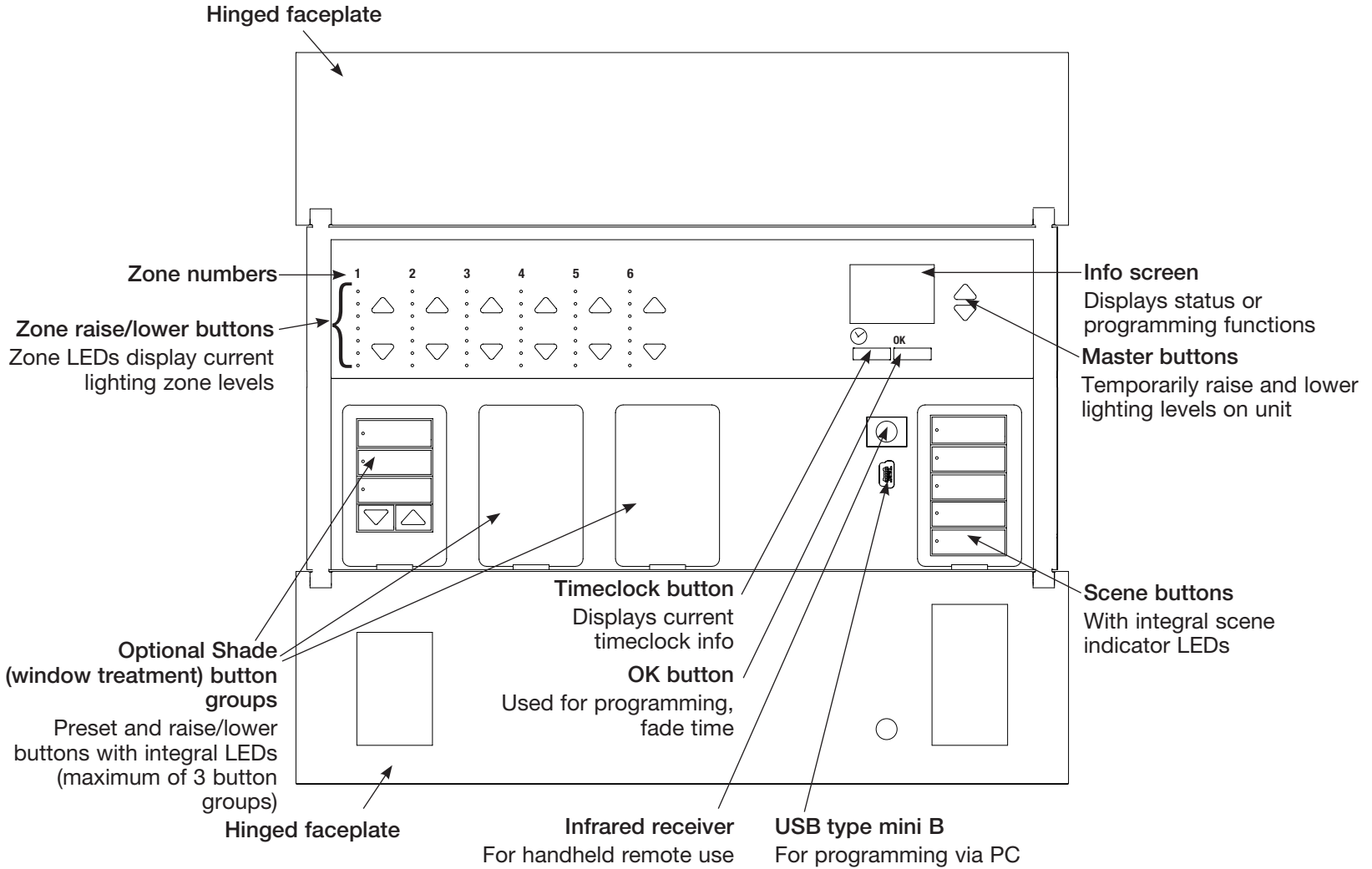
See page 7 for PELV (Class 2: USA) ratings.

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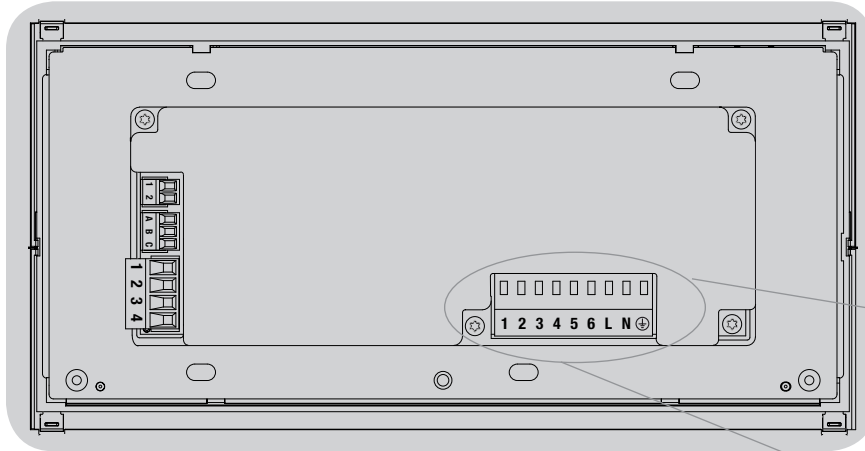
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For additional information, see the complete installation and operation guide at www.lutron.com/qs

Features and Functions of the GRAFIK Eye® QS



Wiring the GRAFIK Eye® QS: Overview of Line Voltage/Mains Wiring



Line Voltage/Mains Cables and Load Wiring

Terminal labels:

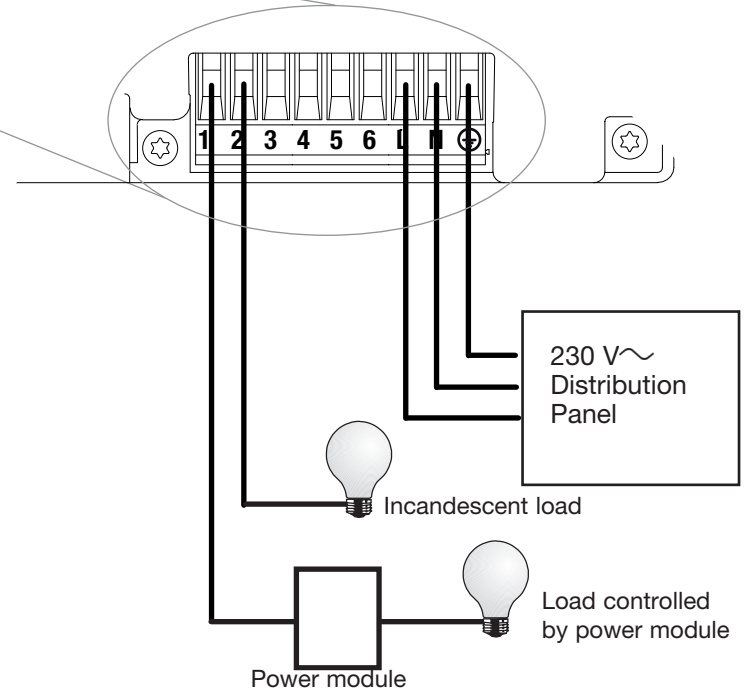
L: Hot/Live

N: Neutral

⊖: Ground

1-6: Dimmed/Switched
line voltage outputs

4,0 mm² (12 AWG)
each terminal

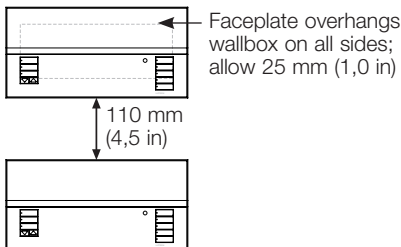


Wiring the GRAFIK Eye® QS: Line Voltage Wiring Details

- Use properly certified cable for all line voltage/mains cables.
- Proper short-circuit and overload protection must be provided at the distribution panel.
- Install in accordance with all local and national electrical codes.
- PELV (Class 2: USA) 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 PELV (Class 2: USA) terminals.

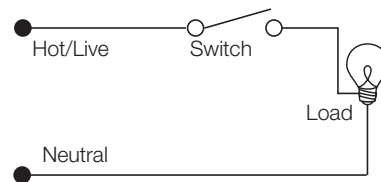
Step 1: Install wallbox. Mount a 89 mm (3,5-in) deep 4-gang U.S. wallbox on a dry, flat indoor surface that is accessible and allows for system programming and operation. Allow at least 110 mm (4,5 in) clearance above and below the faceplate to ensure proper heat dissipation. Allow 25 mm (1 in) for faceplate overhang on all sides.

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



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.



Step 3: Check control unit wiring.

- Earth/ground terminal connection must be made as shown in wiring diagrams (see page 3).
- Do not mix different load types on the same zone.
- Follow all local and national electrical codes when installing PELV (Class 2: USA) wiring with line voltage/mains wiring.

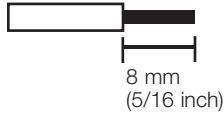


WARNING! Shock hazard. May result in serious injury or death. Always turn off circuit breaker or remove main fuse from power line before doing any work. Before connecting the loads to the GRAFIK Eye QS control unit, test the loads for short-circuits.

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

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

- Strip 8 mm (5/16 inch) of insulation off the line voltage/mains cables in the wallbox.



- 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 (5,0 in·lbs) for line voltage/mains connections and 0,6 N·m (5,0 in·lbs) for the earth/ground connection.

Note: See page 12 for a list of compatible load types and instructions for programming the *GRAFIK Eye QS* to properly recognise 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.

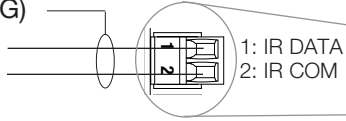
Note: To avoid overheating and possible damage to equipment, do not install control units to dim receptacles, motor-operated appliances, or fluorescent lighting not equipped with Lutron Hi-lume®, Eco-10®, or Tu-Wire® electronic dimming ballasts, or other devices approved for your location. In dimmed 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.

Wiring the GRAFIK Eye® QS:

Overview of PELV (Class 2: USA) Wiring

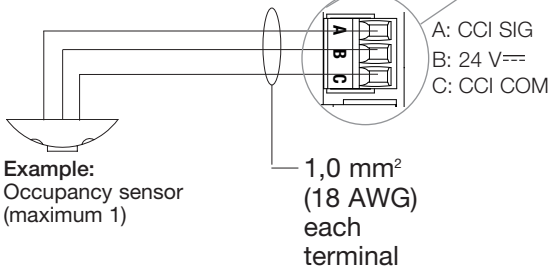
IR Wiring

1,0 mm² (18 AWG)
each terminal
From external
IR connection
(by others)



Contact Closure Input Wiring

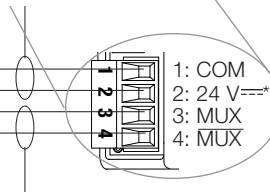
For settings, see the complete installation and operation guide at www.lutron.com/qs



Control Wiring

Common and power (terminals 1 and 2):
Two 1,0 mm² (18 AWG) each terminal

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



Data (terminals 3 and 4):

Twisted, shielded pair 0,5 mm² (22 AWG)
each terminal

*Do not connect terminal 2 between any GRAFIK Eye QS and any other power supply, including another GRAFIK Eye QS. See the complete installation and operation guide at www.lutron.com/qs for detailed wiring example.

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

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

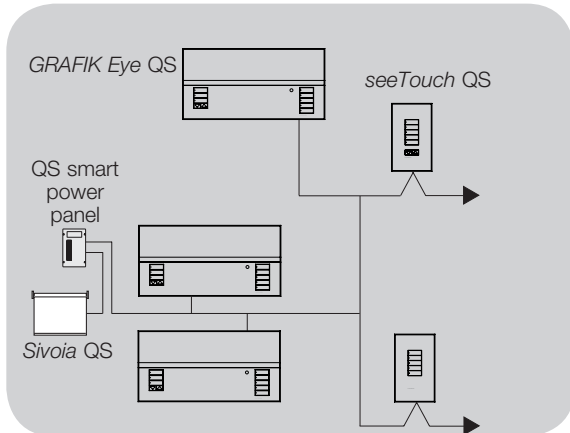
- System communication uses PELV (Class 2: USA) wiring.
- Follow all local and national electrical codes when installing PELV (Class 2: USA) wiring with line voltage/mains wiring.
- Each terminal accepts up to two 1,0 mm² (18 AWG) wires.
- Total length of control link must not exceed 610 m (2 000 feet).
- Make all connections in the control unit's wallbox.
- Wiring can be T-tapped or daisy-chained.
- Wire sizes:
 - Two 1,0 mm² (18 AWG) conductors for control power.
 - One twisted, shielded pair of 0,5 mm² (22 AWG) for data link.
 - Cable is available from Lutron: GRX-CBL-346S-500 (non-plenum) and GRX-PCBL-346S-500 (plenum). Check compatibility in your area.
- PELV (Class 2: USA) 24 V_{DC} 150 mA.

System Limits

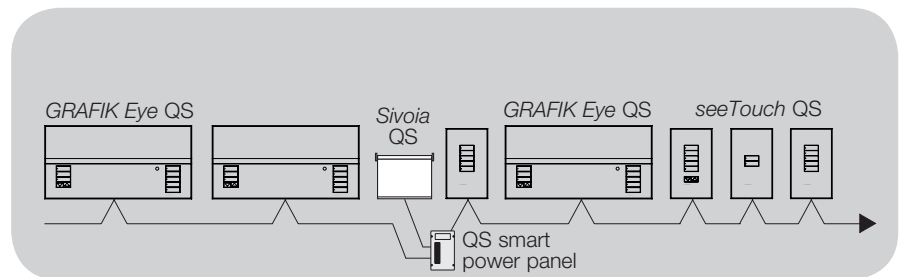
The QS wired communication link is limited to 100 devices or 100 zones. Please note the zone count and power draw unit information in the following table.

QS Device	Zone Count	Power Draw Units (supplied)	Power Draw Units (consumed)
3-zone GRAFIK Eye QS	3	3	0
4-zone GRAFIK Eye QS	4	3	0
6-zone GRAFIK Eye QS	6	3	0
8-zone GRAFIK Eye QS	8	3	0
16-zone GRAFIK Eye QS	16	3	0
seeTouch® QS	0	0	1
International seeTouch® QS	0	0	1
Sivoia® QS	1	0	(Refer to Spec. Submittal)
Contact closure interface	5	0	3
Network interface	0	0	2
DMX interface	0	0	2
QS smart power panel	0	(Refer to Spec. Submittal)	0
QS link power supply	0	8	0

T-Tap Wiring Example



Daisy-Chain Wiring Example



Completing Installation of the GRAFIK Eye® QS

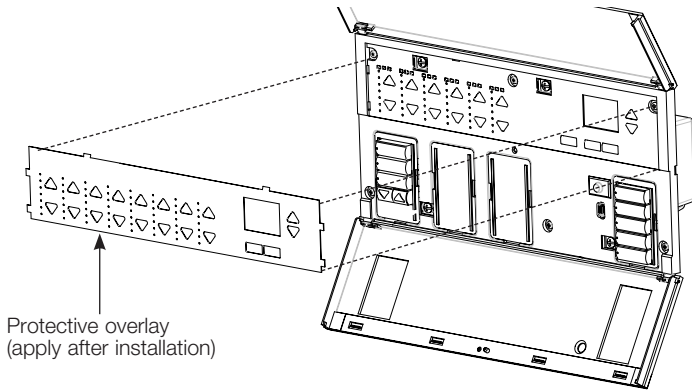
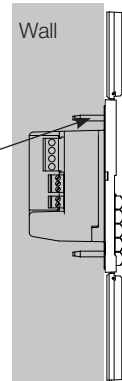
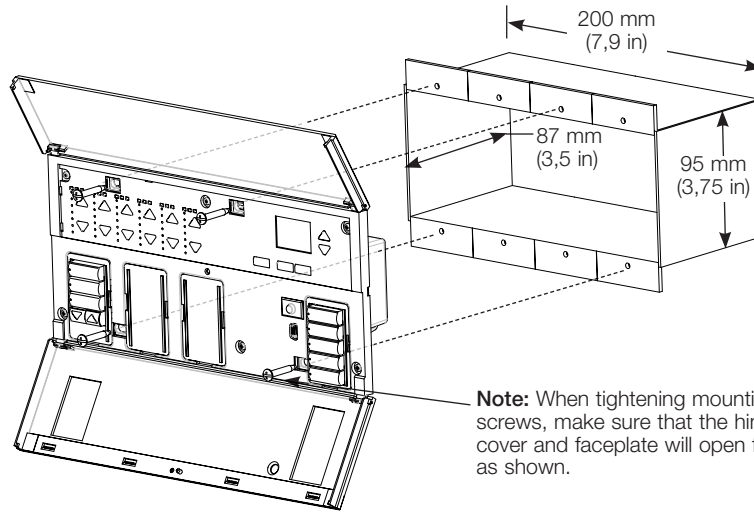
1. Mount the control unit in the wallbox as shown using the four screws provided.

Note: Follow all local and national electrical codes when installing PELV (Class 2: USA) wiring with line voltage/ mains wiring.

2. Verify installation:

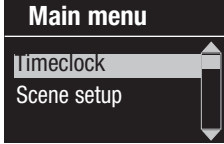
- Restore power.
- Press the top scene button. The LED will light.
- Press the zone raise or lower button. Make sure the control unit is dimming all connected loads.

3. Apply the protective overlay to the control unit. See the complete installation and operation guide at www.lutron.com/qs for instructions for naming zones.

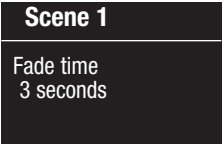


Programming Mode

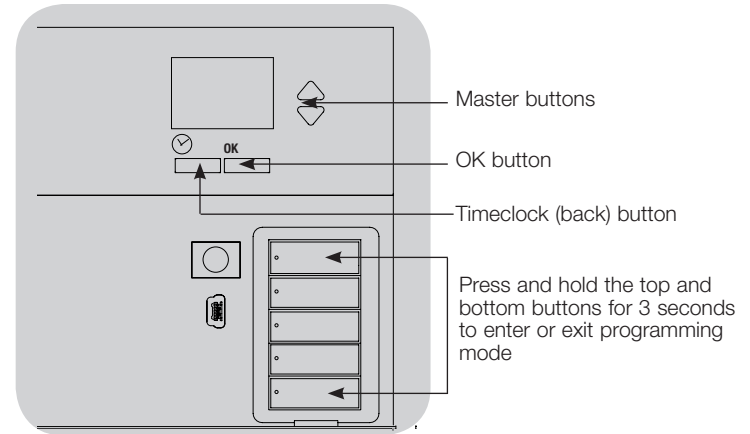
Entering and Exiting Programming Mode



To enter 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.



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



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

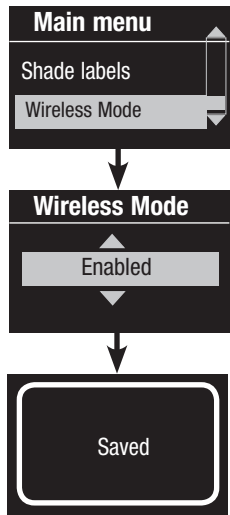
Many models of the GRAFIK Eye® QS support wireless communication with other Lutron products. This feature allows for easy integration of wireless sensors, keypads, remotes, and window treatments for single-room wireless applications, as well as compatibility with other Lutron wireless systems.

Units supporting wireless communication have model numbers beginning with QSGRJ or QSGRK.

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

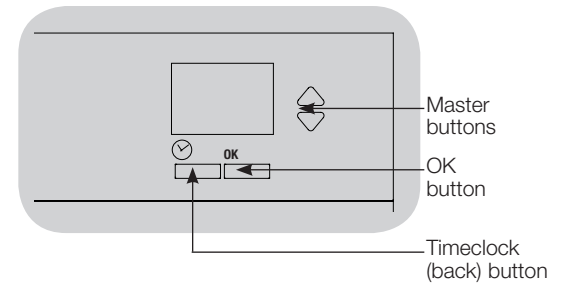
- **Disabled:** Use for wired-only systems.
- **Enabled:** The *GRAFIK Eye QS* Wireless control unit will respond to any programming commands from nearby Lutron QS wireless (and compatible) products.
- **Ignore Programming (default):** The *GRAFIK Eye QS* Wireless control unit will only respond to normal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

To change the wireless mode of the *GRAFIK Eye QS* wireless control unit:



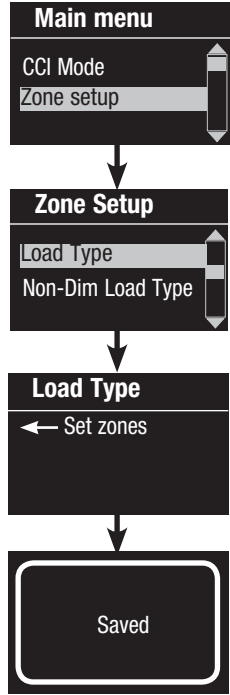
1. Enter programming mode (see page 9).
2. Use the Master buttons to highlight “Wireless Mode” and press the OK button to accept.
3. Use the Master buttons to highlight the desired wireless mode, and press the OK button to accept.
4. The info screen will display a confirming “Saved” message.
5. Exit programming mode (see page 9).

Note: The wireless signal has a range of 10 m (30 feet) through standard construction.

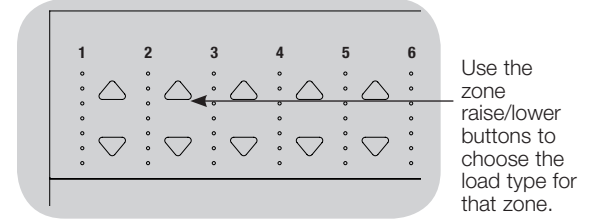
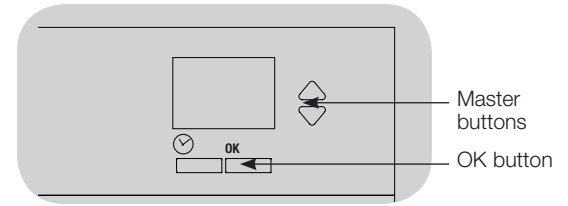


Zone Setup

Assign Load Types

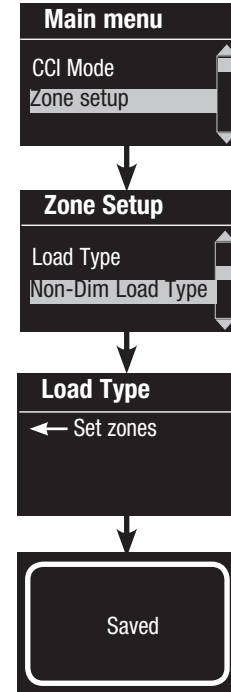


1. Enter programming mode (see page 9).
2. Use the Master buttons to highlight “Zone setup” and press the OK button to accept.
3. Use the Master buttons to highlight “Load type”. Press the OK button to accept. See “Setting Load Types” table on the next page.
4. Use the zone raise/lower buttons to choose 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 (see page 9).



Assign Non-Dim Load Type

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

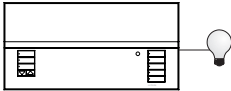
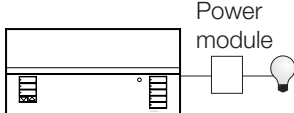


- LOFO: Last On, First Off
- FOFO: First On, First Off
- FOLO: First On, Last Off

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 (see page 9).
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 (see page 9).

Zone Setup (continued)

Setting Load Types			
		Direct control via GRAFIK Eye® QS	Control via power module
			
Fixture load type		Choose this load type from the menu on the GRAFIK Eye® QS:	
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
	Non-dim load type	—	Non-dim
	Neon/Cold cathode	Neon, CC	Neon, CC
	Tu-Wire®	Tu-Wire®	Tu-Wire®
	DMX	DMX	—
	RGB/CMY DMX	RGB/CMY DMX	—

Load Type Notes

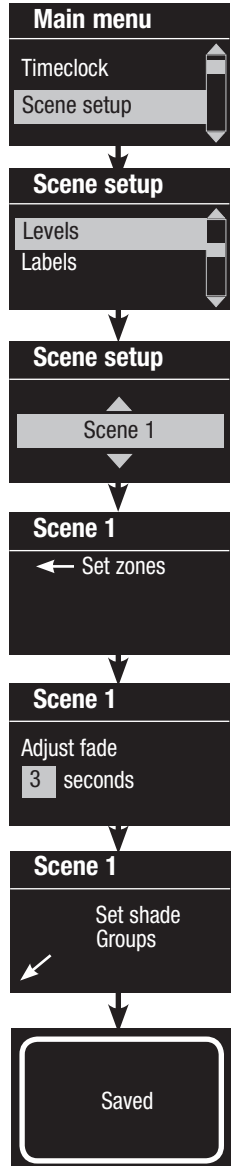
- All electronic low-voltage (ELV) lighting used with an interface must be rated for reverse phase control dimming. Before installing an ELV light source, verify with the manufacturer that their transformer can be dimmed. When dimming, an ELV interface (such as the PHPM-PA-DV-WH) must be used with the control unit.
- 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:

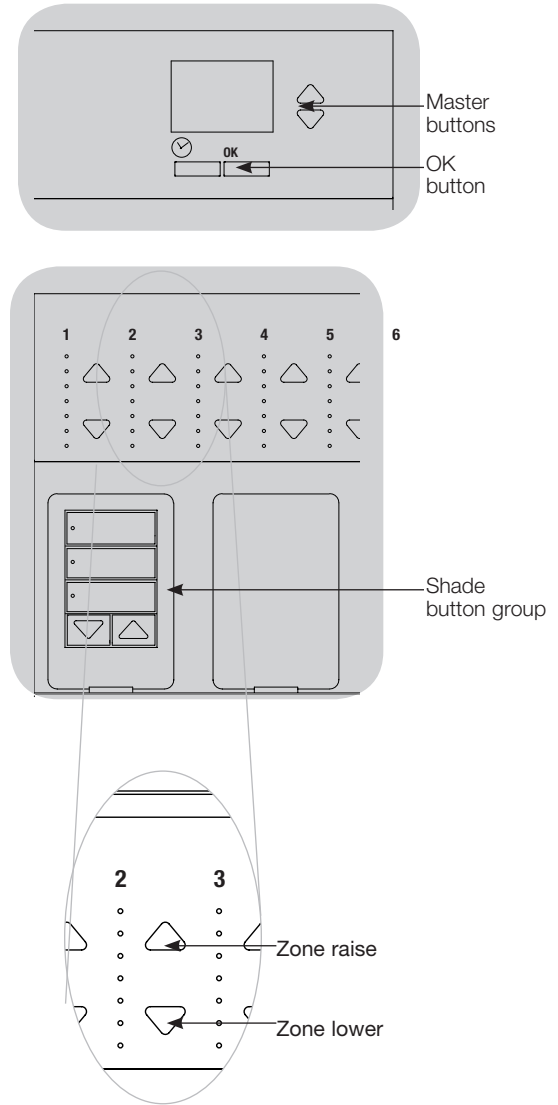
- Maximum total lighting load per unit is 10 A.
- Not all zones must be connected; however, connected zones must have a minimum load of 40 W.
- No zone may be loaded with more than 500 W.
- Maximum total lighting load for a magnetic low-voltage (MLV) zone is 500 VA / 400 W.

Scene Setup

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



1. Enter programming mode (see page 9).
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 shade (window treatment) groups for this scene, press the OK button to skip this step.
Press the shade button that will take the window treatments assigned to that button group to the level you want for this scene. Repeat for any additional shade button groups. Press the OK button to accept. For window treatment programming, see the complete 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 (see page 9).



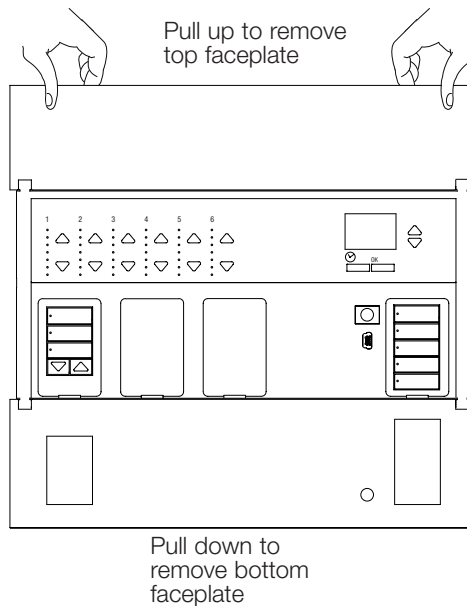
Activate System Accessories

Once your GRAFIK Eye® QS control unit is programmed, you will need to activate any accessories or interfaces that are a part of the system. Refer to the instructions included with those devices to set them up for proper communication with the control unit.

Faceplate Removal

The faceplates may need to be removed to change the colour or to write in zone labels. To remove either faceplate, open it fully (flush to the wall), and pull up (for the top faceplate) or down (for the bottom faceplate) to pull the hinges out of their slots.

Replace by sliding the hinges back into their slots.

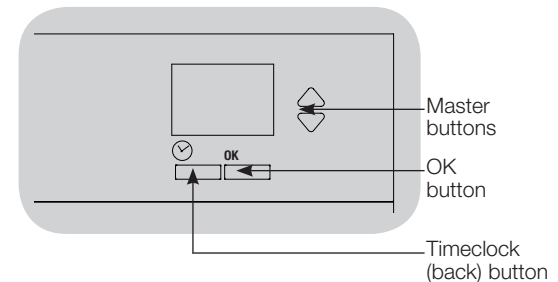


Language Selection

The GRAFIK Eye® QS is capable of operating in the following languages:

- English
- French
- Spanish
- German
- Italian

To change the language to one of these choices, press the Timeclock button four times, until the “Language” screen is displayed. (Note: Do not put the unit in programming mode.) Use the Master buttons to highlight your preferred language, and press the OK button to select and save.



Troubleshooting

Symptom	Possible Causes	Remedy
Unit does not control loads Unit does not turn lights on LEDs on front of unit are not ON Circuit breaker is tripping	Circuit breaker is off Low zone settings Miswire System short circuit System overload	Switch circuit breaker on Reprogram scenes to a higher intensity Check wiring Find and correct shorts Make sure unit is not overloaded (see Zone Setup section)
Unit does not control load Zone control does not work	Miswire Disconnected wire Burned-out lamps	Check wiring Connect zone wires to loads Replace bad lamps
1 or more zones are “full on” when any scene is on and zone intensity is not adjustable	Miswire Shorted line output	Make sure loads are connected to the right zones Replace control unit
A Zone control affects more than one zone	Miswire	Check for shorts between zone outputs
Keypad buttons are not working Keypad LEDs are not tracking	Miswire or loose connection on QS link Wallstation programming is incorrect	Tighten loose connections at PELV terminals on all units and other devices in the system Check the keypad function and programming on the units
Faceplate is warm	Normal operation	Solid-state controls dissipate about 2% of the connected load as heat.
Unit does not allow scene change or zone adjustments Cannot program fade time from Off	Unit in wrong save mode Keypad in system has locked the unit Fade time from Off not programmable; can only program fade time to Off	Change to correct save mode Check programming and state of keypads Fade time from Off is always 3 seconds
Integral (direct-wired) contact closure input does not work	Miswire Input closure/opening is not occurring Unit is in wrong CCI mode	Check wiring on contact closure input Check that the input device is opening and closing properly Change to correct CCI mode
Timeclock events do not occur Sunrise or sunset events do not occur at the correct time	Timeclock is disabled Time is not set correctly Date is not set correctly Location is not set correctly Holiday schedule is in effect	Enable the timeclock Set the time Set the date Set the latitude and longitude correctly Remove the holiday schedule from your programming

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) unauthorised 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.

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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.

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