

Shown above: GRAFIK Eye QS main unit with 2 shade columns in White with Gray stripe.

Models with 2-3 shade columns require base unit and faceplate kit to be ordered separately (QSGRJ-3P base unit) and (QSGFP-2-WH faceplate kit shown)

### Load summary

GRAFIK Eye QS	GRAFIK Eye with EcoSystem®	GRAFIK Eye QS for DALI
<p><b>Direct lighting loads</b></p> <ul style="list-style-type: none"> <li> Incandescent/halogen</li> <li> Magnetic low-voltage (MLV)</li> <li> Tu-Wire® fluorescent</li> <li> Neon/cold cathode</li> <li> Non-dimmed lighting</li> <li> Cree® LR4/LR6 LED</li> </ul> <p><b>Lighting loads requiring interface</b></p> <ul style="list-style-type: none"> <li> Electronic low-voltage* (ELV)</li> <li> Fluorescent and LED (3-wire)</li> <li> Fluorescent and LED (0-10V)</li> </ul>	<p><b>Direct lighting loads</b></p> <ul style="list-style-type: none"> <li> Incandescent/halogen</li> <li> Magnetic low-voltage (MLV)</li> <li> Tu-Wire® fluorescent</li> <li> Fluorescent (EcoSystem® digital fluorescent ballast)</li> <li> Neon/cold cathode</li> <li> Non-dimmed lighting</li> <li> Lutron electronic low-voltage transformer (240V only)</li> </ul>	<p><b>Direct lighting loads</b></p> <ul style="list-style-type: none"> <li> DALI compliant loads</li> </ul> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>*For 230V applications, Lutron ELV transformers may be used without an interface, see pg. 383.</p> </div>

## Features and capacities

- A QS system can have up to 100 devices such as GRAFIK Eye QS control units, keypads or shades
- A QS system can have up to 100 zones (shade or lighting); as part of a RadioRA® 2 system, each zone on GRAFIK Eye QS counts as a device toward 100 device limit per main repeater
- A QS wireless system can have up to 30 additional wireless devices on the wireless link; the devices must be located within a 30ft range of the main unit; add a QS sensor module to extend RF range
- Connect wired occupancy sensors directly to GRAFIK Eye QS main unit or directly through contact closure interface or QS sensor module
- EcoSystem® models provides direct connections to EcoSystem ballasts, drivers and modules without the need for interfaces
- Preset light and shade control that allows you to adjust the total light level for any task or activity
- Buttons are large seeTouch®-style with fully customizable engraving
- Integrates with A/V, HVAC and other systems
- Available in 39 finishes
- High-end trim adjustment sets maximum light/energy level for each zone
- Built-in astronomic timeclock with after hours mode
- For information on engraving, symbols or backlit buttons/backlit text, see pg. 376

## Shade control

- Controls available with up to 3 columns of shade buttons; each column can operate one shade or a group of shades
- Shade operations can be linked to scenes in standalone systems

## Dimensions and mounting

- Width: 9.38 in (239 mm); Height: 4.69 in (119 mm); Depth: 2.36 in (60 mm); Profile: .38 in (10 mm)
- Mounts into a 4-gang U.S. backbox, 3.50 in (89 mm) deep; Lutron® P/N: 241-400

## Communication and wiring

- Communicates via Lutron Clear Connect™ Radio Frequency (RF) technology to other wireless devices
- Models available for operation at 434 MHz, 434 MHz limited channel, 865 MHz, 868 MHz or band 868 MHz limited channel
- Low-voltage IEC PELV/NEC Class 2 wiring connects control units, wallstations, motorized shades and control interfaces
- Supplies three (3) power draw units on the QS link

## Line-voltage load capacity

Total unit maximum capacity:

- 1600 W/VA for 100V @ 50/60 Hz
- 2000 W/VA for 120–127V @ 50/60 Hz
- 3000 W/VA for 220–240V @ 50/60 Hz
- CE models:
  - 3-zone 1500 W/VA
  - 4-zone 2000 W/VA
  - 6-zone 2300 W/VA

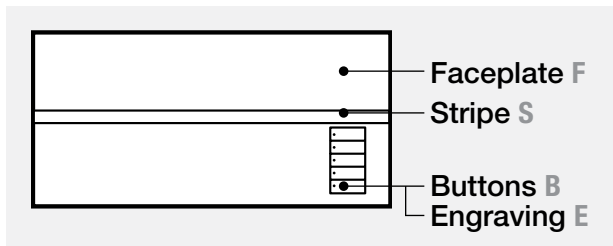
Individual triac zone maximum capacity:

- 25–600 W/VA for 100V @ 50/60 Hz
- 25–800 W/VA for 120–127V @ 50/60 Hz
- 40–1200 W/VA for 220–240V @ 50/60 Hz
- CE models: 40–500 W/VA for 230V @ 50 Hz

### Component may be used in the following system(s):

- GRAFIK Eye QS
- GRAFIK Eye QS with EcoSystem®
- RadioRA® 2
- Energi Savr Node™ with EcoSystem
- Energi Savr Node™ with DALI (DIN-rail)
- Energi Savr Node 0-10V/Energi Savr Node with Softswitch®
- Energi Savr Node for 0-10V/Energi Savr Node for Switching (DIN-rail)
- Energi Savr Node Phase-Adaptive (DIN-rail)

## Available finishes



Use **BOLD** color code in model number (Example: QSGRJ-3P-**WH**)

### Architectural matte finishes\*



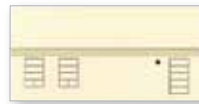
**WH**  
White **F, B**  
Gray **S, E**



**LA**  
Light Almond **F, B**  
Almond **S**  
Gray **E**



**AL**  
Almond **F, B**  
Light Almond **S**  
Gray **E**



**BE**  
Beige **F, B**  
Ivory **S**  
Gray **E**



**IV**  
Ivory **F, B**  
Beige **S**  
Gray **E**



**GR**  
Gray **F, B**  
Black **S**  
White **E**



**BR**  
Brown **F, B**  
Black **S**  
White **E**



**BL**  
Black **F, B**  
Gray **S**  
White **E**

### Architectural metal finishes\*



**BN**  
Bright Nickel **F**  
Black **S, B**  
White **E**



**BC**  
Bright Chrome **F**  
Black **S, B**  
White **E**



**CLA**  
Clear Anodized  
Aluminum **F**  
Black **S, B**  
White **E**



**SC**  
Satin Chrome **F**  
Black **S, B**  
White **E**



**SN**  
Satin Nickel **F**  
Black **S, B**  
White **E**



**QZ**  
Antique Bronze **F**  
Black **S, B**  
White **E**



**BB**  
Bright Brass **F**  
Black **S, B**  
White **E**



**BRA**  
Brass Anodized  
Aluminum **F**  
Black **S, B**  
White **E**



**SB**  
Satin Brass **F**  
Black **S, B**  
White **E**



**QB**  
Antique Brass **F**  
Black **S, B**  
White **E**



**BLA**  
Black Anodized  
Aluminum **F**  
Black **S, B**  
White **E**

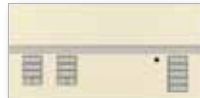
**Color code indicates faceplate color. Models include stripe and button kit in coordinating colors as shown.**

\* All finishes are available with translucent top. Specify "T" in model number before color code. For translucent top models, stripe color will compliment the selected faceplate color. Example shown above, TWH.

**Satin finishes\***



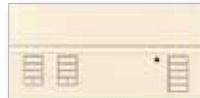
**SW**  
Snow F, B  
Gray S, E



**LS**  
Limestone F  
Gray S, B, E



**BI**  
Biscuit F, B  
Eggshell S  
Gray E



**ES**  
Eggshell F, B  
Beige S  
Gray E



**PD**  
Palladium F  
Gray S, B, E



**TP**  
Taupe F, B  
Gray S, E



**ST**  
Stone F  
Gray S, B, E



**BG**  
Bluestone F  
Gray S, B  
White E



**PL**  
Plum F  
Taupe S, B  
White E



**SG**  
Sea Glass F  
Gray S, B, E



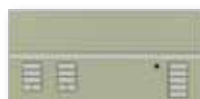
**TQ**  
Turquoise F  
Gray S, B  
White E



**GS**  
Goldstone F  
Ivory S, B  
Gray E



**DS**  
Desert Stone F  
Taupe S, B  
Gray E



**GB**  
Greenbriar F  
Gray S, B  
White E



**MS**  
Mocha Stone F  
Taupe S, B  
White E



**TC**  
Terracotta F  
Taupe S, B  
White E



**SI**  
Sienna F  
Brown S, B  
White E



**HT**  
Hot F  
Taupe S, B  
White E



**MR**  
Merlot F  
Taupe S, B  
White E



**MN**  
Midnight F  
Gray S  
Black B  
White E

**Examples of matte, metal and satin products with translucent top specified**



**TWH**  
White F, S, B  
Translucent top  
Gray E



**TBC**  
Bright Chrome F  
Translucent top  
Black S, B  
White E

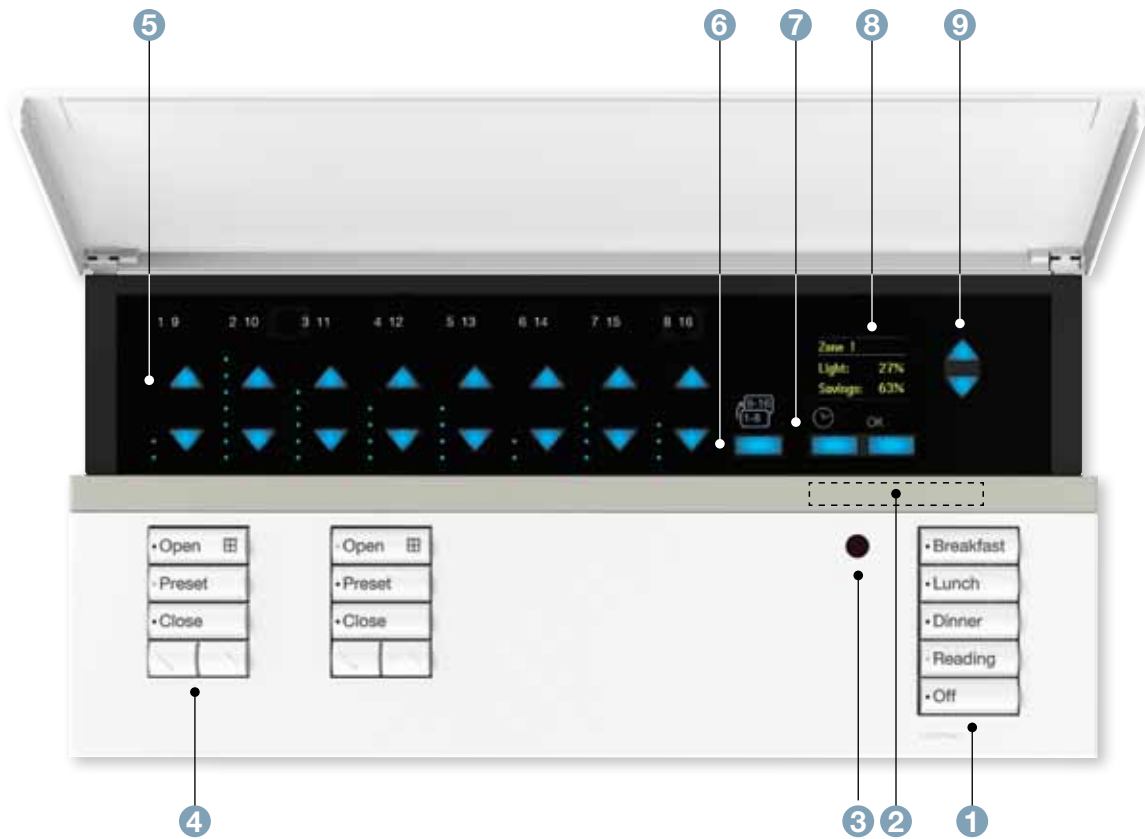


**TLS**  
Limestone F  
Translucent top  
Gray S, B, E

**Color code indicates faceplate color. Models include stripe and button kit in coordinating colors as shown.**

\*All finishes are available with translucent top. Specify "T" in model number before color code. For translucent top models, stripe color will compliment the selected faceplate color. Example shown above, TWH.

Text engraving color varies by button color. Lighter colored buttons use gray text and darker colored buttons use white text. Visit [www.lutron.com/engraving](http://www.lutron.com/engraving) or see pg. 376 for additional information.



GRAFIK Eye QS with EcoSystem® main unit with lid open

.38 in  
(10 mm) 1.98 in (51 mm)

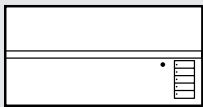


## Explanation of features

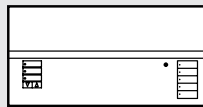
Features	QS stand-alone	RadioRA® 2
<b>1</b> Light control buttons	<ul style="list-style-type: none"> <li>• 1-4 scenes and off</li> <li>• Buttons available with configurable fade times</li> <li>• Can be configured to control any lights wired to devices on the QS link</li> </ul>	<ul style="list-style-type: none"> <li>• Buttons can be programmed via software and act as RadioRA 2 keypads</li> <li>• Can also be used for local scenes</li> </ul>
<b>2</b> Radio frequency (RF) transceiver	<ul style="list-style-type: none"> <li>• Communicates with Radio Powr Savr™ sensors, Pico® wireless controls, Sivoia® QS wireless shades (30ft range) and other wireless main units</li> </ul>	<ul style="list-style-type: none"> <li>• Communicates via RadioRA 2 repeater with other system devices including sensors and keypads</li> </ul>
<b>3</b> Infrared receiver	<ul style="list-style-type: none"> <li>• Allows IR connectivity to handheld infrared remotes (50ft range line-of-sight), IR input located on the side of the main unit</li> </ul>	
<b>4</b> Shade control buttons	<ul style="list-style-type: none"> <li>• Each shade control has open, preset, close, raise/lower</li> <li>• Models available with 0, 1, 2 or 3 shade columns</li> <li>• Can also be used for local scenes (RadioRA 2 only)</li> </ul>	
<b>5</b> Backlit zone buttons	<ul style="list-style-type: none"> <li>• Non-EcoSystem 3, 4 and 6 zone line voltage dimming models</li> </ul>	<ul style="list-style-type: none"> <li>• Zone buttons can only control lights wired to the main unit</li> <li>• Zones can be programmed to function as RadioRA 2 dimmer and assigned to any scene or keypad button</li> </ul>
	<ul style="list-style-type: none"> <li>• EcoSystem/DALI models 6, 8 and 16 zones, via EcoSystem digital link or DALI</li> <li>• 3 line voltage zones available (on EcoSystem only)</li> </ul>	
<b>6</b> Page button	<ul style="list-style-type: none"> <li>• In GRAFIK Eye QS with EcoSystem/DALI, button toggles between zones 1–8 and 9–16</li> </ul>	<ul style="list-style-type: none"> <li>• EcoSystem models not available for use with RadioRA 2</li> </ul>
<b>7</b> Astronomic timeclock	<ul style="list-style-type: none"> <li>• Add up to 25 events per day/entire week</li> <li>• Scheduling to meet energy codes</li> <li>• Afterhours capability</li> </ul>	<ul style="list-style-type: none"> <li>• Timeclock disabled; use system timeclock in main repeater</li> </ul>
<b>8</b> Information display/user interface	<ul style="list-style-type: none"> <li>• Energy savings (as % of energy used)</li> <li>• Lighting levels</li> <li>• Timeclock information (if applicable)</li> <li>• Programming information</li> </ul>	
<b>9</b> Master override backlit buttons	<ul style="list-style-type: none"> <li>• Temporarily raise/lower light levels of an entire scene</li> </ul>	

## Available models

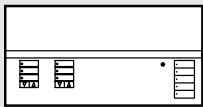
- Non-EcoSystem® or DALI models are available with 3, 4 or 6 lighting zones
- EcoSystem and DALI models are available with 6, 8 or 16 lighting zones
- All models are available with 0, 1, 2 or 3 shade columns



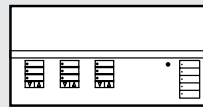
0 shade columns



1 shade column



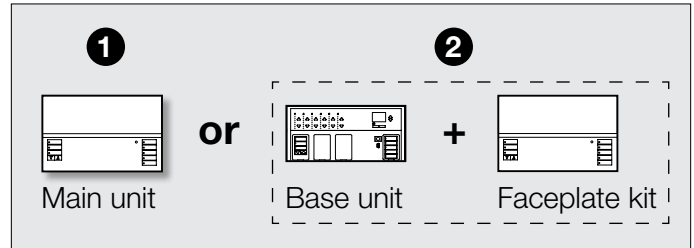
2 shade columns



3 shade columns

## How to select a model number

GRAFIK Eye QS main units can be ordered in two ways:



- 1 Main unit:** Order a main unit when the installation requires 0 or 1 shade groups. This option is only available with the White finish.
- 2 Base unit and faceplate kit:** Order a base unit and a faceplate kit individually when the installation requires 2 or 3 shade zones, or if a finish other than White is preferred.

### Keypad engraving codes

**Omit** Unengraved

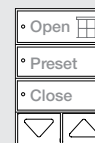
Ships with engraving certificate that customer can redeem at no charge

**EGN** Standard engraving

**SGN** International (symbol-based) engraving



Lighting keypad

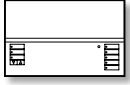


Shade column

**NST** Non-standard text engraving

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

## Model numbers for 120–127V, 220-240V devices



### GRAFIK Eye QS wireless main unit

120–127V, 220-240V @ 50/60 Hz  
(models operate at 434 MHz)

#### 3 lighting zones

Matte white, 0 shade zones	QSGRJ-3P-WH
Matte white, translucent top, 0 shade zones	QSGRJ-3P-TWH
Matte white, 1 shade zone	QSGRJ-3P-1WH
Matte white, translucent top, 1 shade zone	QSGRJ-3P-1TWH

#### 4 lighting zones

Matte white, 0 shade zones	QSGRJ-4P-WH
Matte white, translucent top, 0 shade zones	QSGRJ-4P-TWH
Matte white, 1 shade zone	QSGRJ-4P-1WH
Matte white, translucent top, 1 shade zone	QSGRJ-4P-1TWH

#### 6 lighting zones

Matte white, 0 shade zones	QSGRJ-6P-WH
Matte white, translucent top, 0 shade zones	QSGRJ-6P-TWH
Matte white, 1 shade zone	QSGRJ-6P-1WH
Matte white, translucent top, 1 shade zone	QSGRJ-6P-1TWH

TWH models include translucent top; stripe color will match base unit.

120V units are standard phase control, 800W/channel, 2,000W total (220–240V units are 1200W/channel, 3,000W total).

Compatible with Energi Savr Node™ with EcoSystem®, Energi Savr Node for 0-10V/Energi Savr Node with SoftSwitch®, and RadioRA® 2 systems.

For specific voltage by country information refer to voltage chart on pg. 480.



### GRAFIK Eye QS base unit

120–127V, 220-240V @ 50/60 Hz  
(wireless models operate at 434 MHz)

#### 3 lighting zones

Wireless	QSGRJ-3P
Wireless (brazil)	QSGRJ-3PBA
Wired	QSGR-3P

#### 4 lighting zones

Wireless	QSGRJ-4P
Wireless (brazil)	QSGRJ-4PBA
Wired only	QSGR-4P

#### 6 lighting zones

Wireless	QSGRJ-6P
Wireless (brazil)	QSGRJ-6PBA
Wired only	QSGR-6P

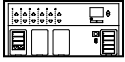
Base units require a faceplate kit for operation.

120V units are standard phase control, 800W/channel, 2,000W total (220–240V units are 1200W/channel, 3,000W total).

Compatible with Energi Savr Node™ with EcoSystem®, Energi Savr Node for 0-10V/Energi Savr Node with Softswitch® and RadioRA 2 systems.



Model numbers  
for 120–127V, 220-240V devices (continued)



**GRAFIK Eye QS with EcoSystem® base unit**

120-127V and 220-240 V @ 50/60 Hz  
(wireless models operate at 434 MHz)

**6 lighting zones**

Wireless	QSGRK-6E
Wired	QSGR-6E

**8 lighting zones**

Wireless	QSGRK-8E
Wired	QSGR-8E

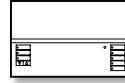
**16 lighting zones**

Wireless	QSGRK-16E
Wired	QSGR-16E

Base units require a faceplate kit for operation.

120 V units are standard phase control, 800 W/channel, 2,000 W total (220-24V units are 1,200 W/channel, 3,000 W total).

Compatible with Energi Savr Node™ with EcoSystem



**GRAFIK Eye QS wireless main unit with EcoSystem®**

120–127 V and 220–240V @ 50/60 Hz  
(models operate at 434 MHz)

**6 lighting zones**

Matte white, 0 shade zones	QSGRJ-6E-WH
Matte white, translucent top, 0 shade zones	QSGRJ-6E-TWH
Matte white, 1 shade zone	QSGRJ-6E-1WH
Matte white, translucent top, 1 shade zone	QSGRJ-6E-1TWH

**8 lighting zones**

Matte white, 0 shade zones	QSGRJ-8E-WH
Matte white, translucent top, 0 shade zones	QSGRJ-8E-TWH
Matte white, 1 shade zone	QSGRJ-8E-1WH
Matte white, translucent top, 1 shade zone	QSGRJ-8E-1TWH

**16 lighting zones**

Matte white, 0 shade zones	QSGRJ-16E-WH
Matte white, translucent top, 0 shade zones	QSGRJ-16E-TWH
Matte white, 1 shade zone	QSGRJ-16E-1WH
Matte white, translucent top, 1 shade zone	QSGRJ-16E-1TWH

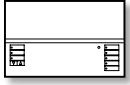
TWH models include translucent top; stripe color will match base unit.

120V units are standard phase control, 800W/channel, 2,000W total (220–240V units are 1200W/channel, 3,000W total).

Compatible with Energi Savr Node™ with EcoSystem system.

For specific voltage by country information refer to voltage chart on pg. 480.

## Model numbers for 230V devices



### GRAFIK Eye QS wireless main unit 230V(CE) (models operate at 868 MHz)

#### 3 lighting zones

Matte white, 0 shade zones	QSGRK-3PCE-WH
Matte white, translucent top, 0 shade zones	QSGRK-3PCE-TWH
Matte white, 1 shade zone	QSGRK-3PCE-1WH
Matte white, translucent top, 1 shade zone	QSGRK-3PCE-1TWH

#### 4 lighting zones

Matte white, 0 shade zones	QSGRK-4PCE-WH
Matte white, translucent top, 0 shade zones	QSGRK-4PCE-TWH
Matte white, 1 shade zone	QSGRK-4PCE-1WH
Matte white, translucent top, 1 shade zone	QSGRK-4PCE-1TWH

#### 6 lighting zones

Matte white, 0 shade zones	QSGRK-6PCE-WH
Matte white, translucent top, 0 shade zones	QSGRK-6PCE-TWH
Matte white, 1 shade zone	QSGRK-6PCE-1WH
Matte white, translucent top, 1 shade zone	QSGRK-6PCE-1TWH

TWH models include translucent top; stripe color will match base unit.

Standard phase control 500 W/channel, 1,500-2,300 W total based on number of zones.

Compatible with Energi Savr Node™ for 1-10 V/Energi Savr Node for SoftSwitch® (DIN-rail), Energi Savr Node Phase-Adaptive (din-rail) and Energi Savr Node for DALI (DIN-rail) systems.



### GRAFIK Eye QS base unit 230V @ 50Hz

(wireless models operate at 434 MHz limited channel, 865MHz, 868MHz or 868 MHz limited channel)

#### 3 lighting zones

Wireless (CE) - 868 MHz	QSGRK-3PCE
Wireless (CE) - 868 MHz limited channel	QSGRM-3PCE
Wired (CE) only	QSGR-3PCE

#### 4 lighting zones

Wireless (CE) - 868 MHz	QSGRK-4PCE
Wireless (CE) - 868 MHz limited channel	QSGRM-4PCE
Wired (CE) only	QSGR-4PCE

#### 6 lighting zones

Wireless (CE) - 865 MHz	QSGRN-6PCE
Wireless (CE) - 868 MHz	QSGRK-6PCE
Wireless (CE) - 868 MHz limited channel	QSGRM-6PCE
Wired (CE) only	QSGR-6PCE

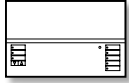
Base units require a faceplate kit for operation.

Standard phase control 500 W/channel, 1500-2300 W total based on number of zones.

Compatible with Energi Savr Node™ for 0-10V/Energi Savr Node with switching (DIN-rail), Energi Savr Node Phase-Adaptive (DIN-rail), and Energi Savr Node™ for DALI (DIN-rail) system.

For specific voltage by country information refer to voltage chart on pg. 480.

## Model numbers for 220–240V devices



**GRAFIK Eye QS wireless main unit with DALI**  
 220–240V(CE) @ 50/60Hz  
 (models operate at 868MHz)

### 6 lighting zones

Matte white, 0 shade zones	QSGRK-6D-WH
Matte white, translucent top, 0 shade zones	QSGRK-6D-TWH
Matte white, 1 shade zone	QSGRK-6D-1WH
Matte white, translucent top, 1 shade zone	QSGRK-6D-1TWH

### 8 lighting zones

Matte white, 0 shade zones	QSGRK-8D-WH
Matte white, translucent top, 0 shade zones	QSGRK-8D-TWH
Matte white, 1 shade zone	QSGRK-8D-1WH
Matte white, translucent top 1 shade zone	QSGRK-8D-1TWH

### 16 lighting zones

Matte white, 0 shade zones	QSGRK-16D-WH
Matte white, translucent top 0 shade zones	QSGRK-16D-TWH
Matte white, 1 shade zone	QSGRK-16D-1WH
Matte white, translucent top 1 shade zone	QSGRK-16D-1TWH

TWH models include translucent top; stripe color will match base unit.

Standard phase control 500 W/channel, 1,500-2,300 W total based on number of zones.

Compatible with Energi Savr Node™ for DALI (DIN-rail) system.

For specific voltage by country information refer to voltage chart on pg. 480.

## Model numbers for 100V devices



**GRAFIK Eye QS base unit**  
 100V @ 50/60Hz

### 3 lighting zones

Wired	QSGR-3PJA
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### 4 lighting zones

Wired	QSGR-4PJA
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### 6 lighting zones

Wired	QSGR-6PJA
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Base units require a faceplate kit for operation.



**GRAFIK Eye QS with DALI base unit**  
 220–240V(CE) @ 50/60Hz  
 (wireless models operate at 868 MHz)

### 6 lighting zones

Wireless	QSGRK-6D
Wired only	QSGR-6D

### 8 lighting zones

Wireless	QSGRK-8D
Wired only	QSGR-8D

### 16 lighting zones

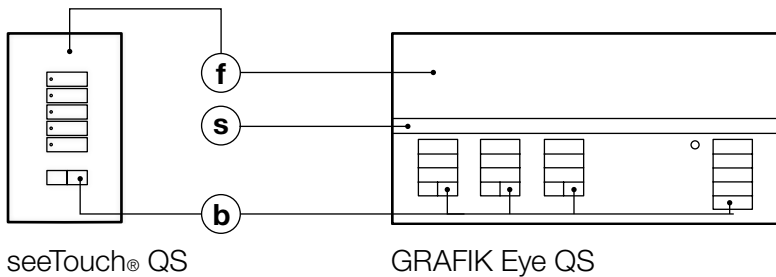
Wireless	QSGRK-16D
Wired only	QSGR-16D

Base units require a faceplate kit for operation.

Standard phase control 500 W/channel, 1,500-2,300 W total based on number of zones.

Compatible with Energi Savr Node for DALI (DIN-rail) system.

## Faceplate and button kit model numbers



- f** faceplate color option
- s** stripe color option
- b** button color option

### Faceplate kit

#### 0 shade zones

Faceplate kit	QSGFP- <b>XX</b> <sup>2</sup> - <b>EEE</b>
Faceplate kit, translucent top	QSGFP-T- <b>XX</b> <sup>2</sup> - <b>EEE</b>

#### 1 shade zone

Faceplate kit	QSGFP-1- <b>XX</b> <sup>2</sup> - <b>EEE</b>
Faceplate kit, translucent top	QSGFP-1T- <b>XX</b> <sup>2</sup> - <b>EEE</b>

#### 2 shade zones

Faceplate kit	QSGFP-2- <b>XX</b> <sup>2</sup> - <b>EEE</b>
Faceplate kit, translucent top	QSGFP-2T- <b>XX</b> <sup>2</sup> - <b>EEE</b>

#### 3 shade zones

Faceplate kit	QSGFP-3- <b>XX</b> <sup>2</sup> - <b>EEE</b>
Faceplate kit, translucent top	QSGFP-3T- <b>XX</b> <sup>2</sup> - <b>EEE</b>

Faceplate kit includes coordinating stripe insert and buttons, base unit required for operation.

Compatible with all GRAFIK Eye QS models.

### Stripe and button kits

#### Stripe kits

Stripe kit	QSGS- <b>XX</b> <sup>2</sup>
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#### 3-button

3-button with raise/lower replacement kit (shade buttons)	QSGB-3BRL- <b>XX</b> <sup>1</sup> - <b>EEE</b>
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#### 5-button

5-button replacement kit (scene buttons)	QSGB-5B- <b>XX</b> <sup>1</sup> - <b>EEE</b>
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Compatible with all GRAFIK Eye QS models.

**XX**<sup>1</sup>: Architectural matte color codes, see pg. 124

**XX**<sup>2</sup>: Architectural matte, metal and satin color codes, see pgs. 124-125

**EEE**: Engraving codes, see pg. 376

For specific voltage by country information refer to voltage chart on pg. 480.