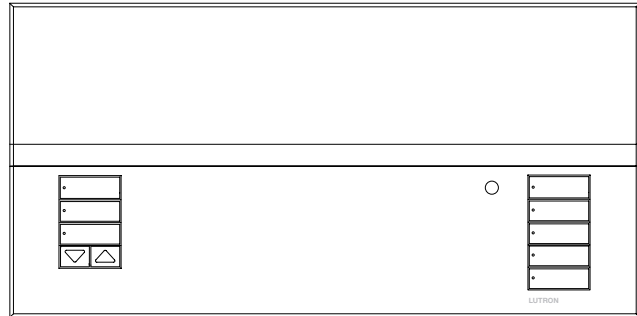


GRAFIK Eye® QS

The GRAFIK Eye® QS controls up to six zones of light and will operate the following sources with a continuous Square Law dimming curve or on a full conduction non-dim basis:

- Incandescent
- LED^{1, 2}
- Tungsten Halogen
- Electronic Low-Voltage (ELV)³
- Magnetic Low-Voltage (MLV) Transformer
- Metal Halide/High Pressure Sodium Switched
- Neon/Cold Cathode
- Lutron Tu-Wire® Electronic Fluorescent Dimming Ballasts
- Approved LED and CFL Lamps/Fixtures

The GRAFIK Eye® QS can be configured for wired, QS link (HomeWorks® QS only), or wireless, RF link (HomeWorks® QS and RadioRA® 2), communication.



GRAFIK Eye® QS

Models

Model Number	Zones	Voltage	Additional Features
QSGRJ-3P-XX	3	120 V~, 220–240 V~	-
QSGRJ-4P-XX	4	120 V~, 220–240 V~	-
QSGRJ-6P-XX	6	120 V~, 220–240 V~	-
QSGRJ-3P-1XX	3	120 V~, 220–240 V~	1 extra button column
QSGRJ-3P-TXX	3	120 V~, 220–240 V~	translucent cover
QSGRJ-3P-1TXX	3	120 V~, 220–240 V~	1 extra button column, translucent cover
QSGRJ-4P-1XX	4	120 V~, 220–240 V~	1 extra button column
QSGRJ-4P-TXX	4	120 V~, 220–240 V~	translucent cover
QSGRJ-4P-1TXX	4	120 V~, 220–240 V~	1 extra button column, translucent cover
QSGRJ-6P-1XX	6	120 V~, 220–240 V~	1 extra button column
QSGRJ-6P-TXX	6	120 V~, 220–240 V~	translucent cover
QSGRJ-6P-1TXX	6	120 V~, 220–240 V~	1 extra button column, translucent cover
QSGFP-	Faceplate kit		

NOTES

- "XX" in the model number represents color/finish code. See pages 9 and 10 for Colors and Finishes.
- See page 6 for model number breakdown.

¹ Dimming curve will be dependent on specific LED models.

² For more information on controlling LEDs, please see Application Note #487 on www.lutron.com

³ ELV can be controlled with a smooth, continuous Square Law dimming curve or on a full conduction non-dim basis through a separate Lutron® power module, ELV, or Phase Adaptive power module.

GRAFIK Eye® QS

Specifications

Model Numbers	See previous page
Power	120 V~ 50/60 Hz 220–240 V~ (non CE) 50/60 Hz
Typical Power Consumption	7 W, 0 Power Draw Units (PDUs). The GRAFIK Eye® QS is not powered from the link, Pin 2 should not be connected. Typical Power Consumption test conditions: all loads off, one button LED on.
Regulatory Approvals	UL, CSA, FCC, IC, SCT, NOM, CEC (Title 24)
Environment	Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C) Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Communications	Wired (HomeWorks® QS only): Low-voltage type IEC PELV/NEC® Class 2 wiring connects GRAFIK Eye® QS to processor. Each HomeWorks® QS processor has two configurable links. GRAFIK Eye® QS communicates with the processor via the QS link. RF (RadioRA® 2 and HomeWorks® QS): Lutron® wireless Clear Connect® Technology
ESD Protection	Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 801-2.
Surge Protection	Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits.
Power Failure	Provides 10-year power failure memory: Automatically restores lighting to levels prior to power interruption.
Mounting	Installs in a standard 4-gang U.S. wallbox, 3½ in (89 mm) deep is strongly recommended. Always allow at least 4½ in (114 mm) clearance above and below the control unit to provide adequate space for cooling. Wallplate snaps on with no visible means of attachment.
Line Voltage Wiring	Each line voltage terminal can accept one 12 AWG (4.0 mm ²) wire.
IEC PELV/NEC® Class 2 QS System Low-Voltage Wiring (HomeWorks® QS only)	System communication uses low-voltage wiring. Wiring can be daisy-chained or T-tapped. Wiring must be run separately from line/mains voltage. IEC PELV/NEC® Class 2 wiring link requires: Two 18 AWG (0.75 mm ²) conductors for control power. One twisted, shielded pair of 22 AWG (0.34 mm ²) for data link. Available from Lutron, P/N GRX-CBL-346S; check compatibility in your area. Total length of control link must not exceed 2000 ft (610 m).
Warranty	www.lutron.com/TechnicalDocumentLibrary/Warranty.pdf www.lutron.com/TechnicalDocumentLibrary/Intl_Warranty.pdf

GRAFIK Eye® QS

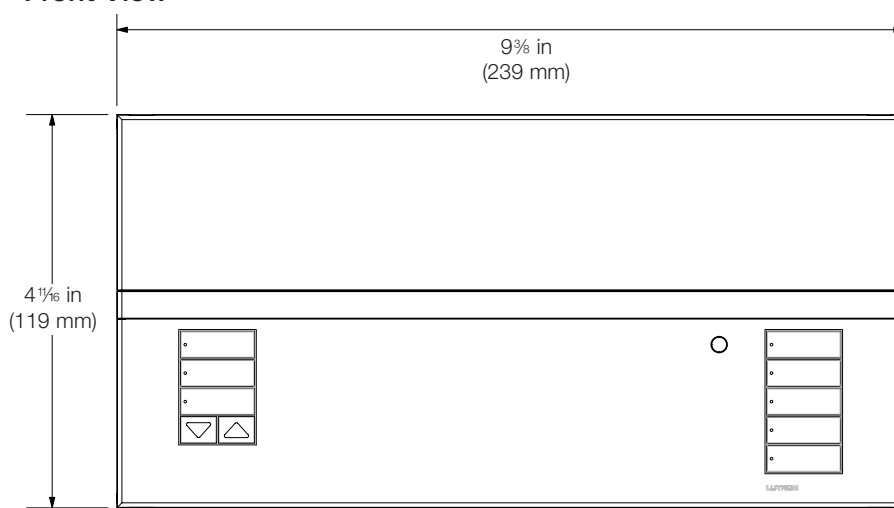
Design Features

- Contains RTISS Equipped® technology to compensate in real time for incoming line voltage variations: No visible flicker with +/-2% change in RMS voltage/cycle and +/-2% change in frequency/second.
- Buttons are programmable to select scene or room preset levels or positions.
- Wallplate snaps on with no visible means of attachment.
- Can be configured for wired, QS link (HomeWorks® QS only), or wireless, RF link (HomeWorks® QS and RadioRA® 2), communication.

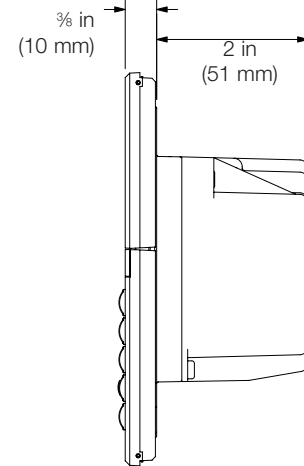
Dimensions

Dimensions shown as: in (mm)

Front View

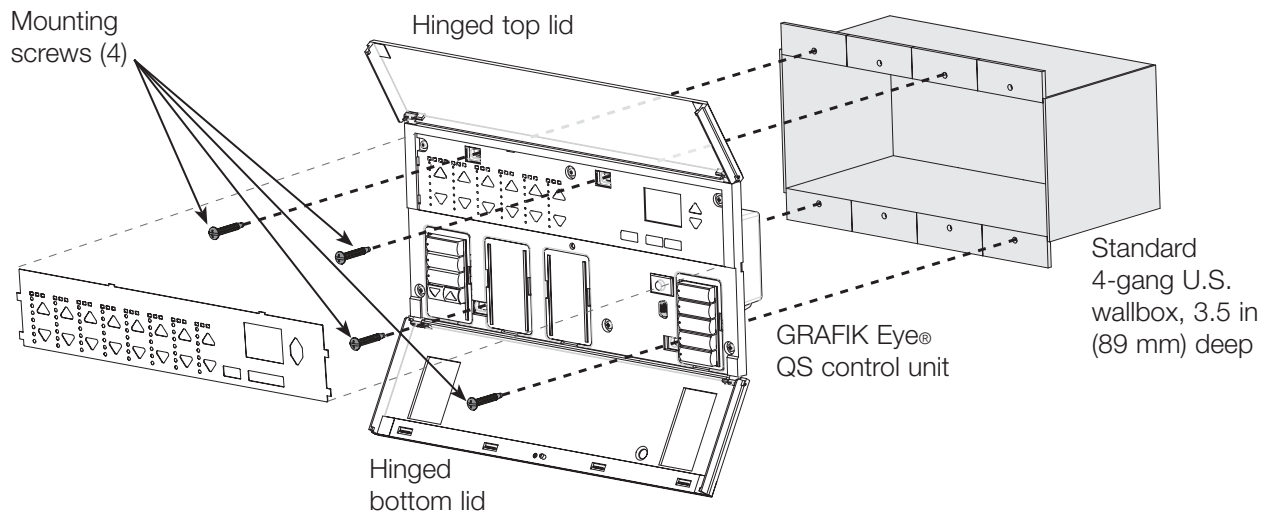


Side View



Fits into a 4-gang U.S. backbox, 3.5 in (89 mm) deep; Lutron® P/N 241400

Mounting



GRAFIK Eye® QS

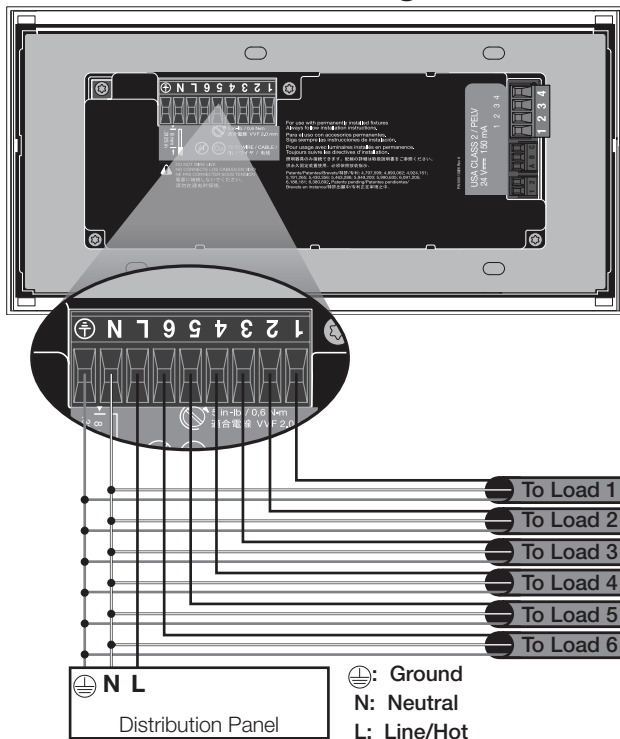
Load Capacity

	120 V~ 50/60 Hz	220–240 V~ 50/60 Hz
Unit Capacity (watts)	2000 W	3000 W
Magnetic Low-Voltage	2000 VA/1600 W	3000 VA/2400 W
Zone Capacity (watts)	25–800 W	40–1200 W
Magnetic Low-Voltage	25–800 VA/25–600 W	40–1200 VA/40–960 W
LED	See Application Note #487	

Load Type Notes

- When dimming Electronic Low-Voltage (ELV) lighting, an ELV interface (such as PHPM-PA-DV-WH) must be used with the control unit. Before installing an ELV light source, verify with the manufacturer that their transformer can be dimmed.
- When controlling 0–10 V loads, a Ten Volt Interface (GRX-TVI) must be used with the control unit.
- Not all zones must be connected; however, **connected zones must have a minimum load as specified above.**
- Maximum total lighting load for a Magnetic Low-Voltage (MLV) varies by input voltage (**specified above**):
 - 120 V~: 800 VA / 600 W
 - 220–240 V~: 1200 VA/960 W
- No zone may be loaded with more than the capacity specified above. For higher wattage applications, or for 277 V~ applications, use Lutron® power module PHPM-PA, PHPM-WBX, PHPM-PA-DV, PHPM-SW, or PHPM-WBX-DV.

Power and Load Wiring

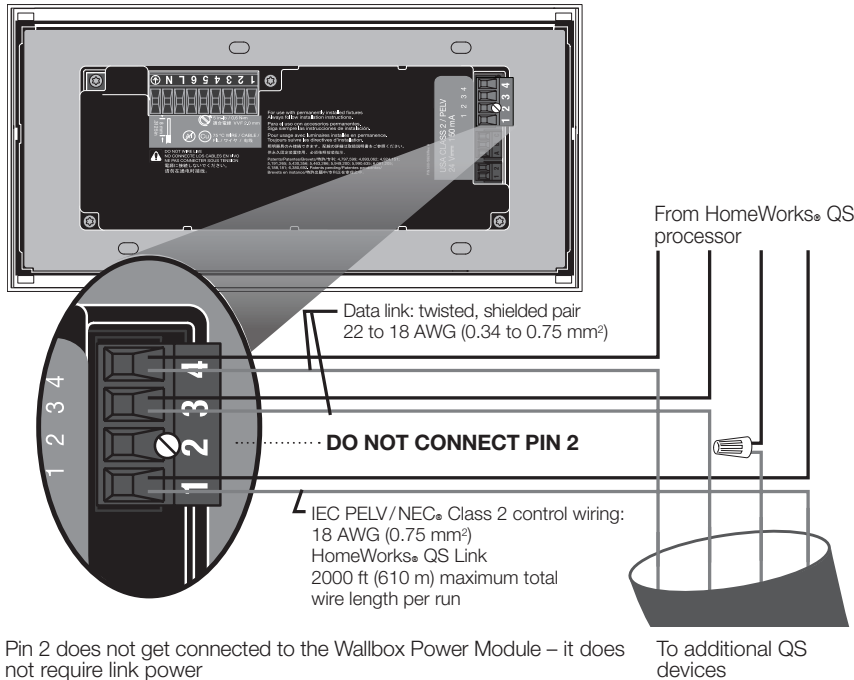


GRAFIK Eye® QS

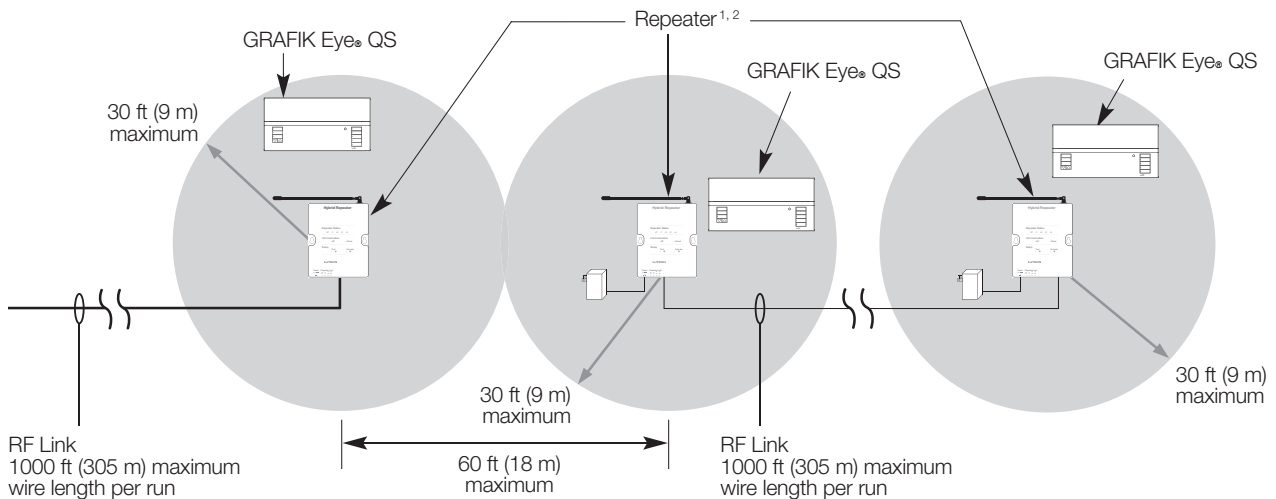
Communications

HomeWorks® QS supports selection of wired or RF communications. A GRAFIK Eye® QS main unit that communicates back to a HomeWorks® QS processor through the RF link should not have any QS wired link connections. Only RF communication is available in RadioRA® 2.

QS Link Wiring (HomeWorks® QS only)



RF Link (RadioRA® 2 and HomeWorks® QS)



¹ In HomeWorks® QS systems, use Hybrid Repeaters for range extension. In RadioRA® 2, the repeater shown may be either a main repeater (1 required) or auxiliary repeater (up to 4 permitted).

² For reliable RF performance, the GRAFIK Eye® QS main unit should be located at least 6 ft (2 m) away from the main or auxiliary repeater.

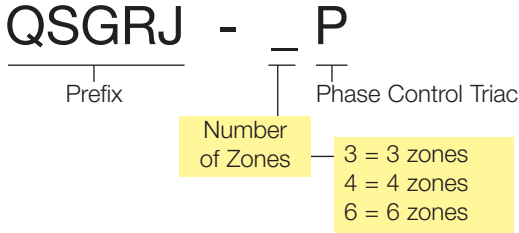
GRAFIK Eye® QS

Wireless Control Unit: Custom Color Options and Model Numbers

You must order a Base Unit and a Faceplate Kit

See Standard Color Combinations page for faceplate, stripe, and button colors

Base Unit



Example:

QSGRJ-6P

6-zone base unit

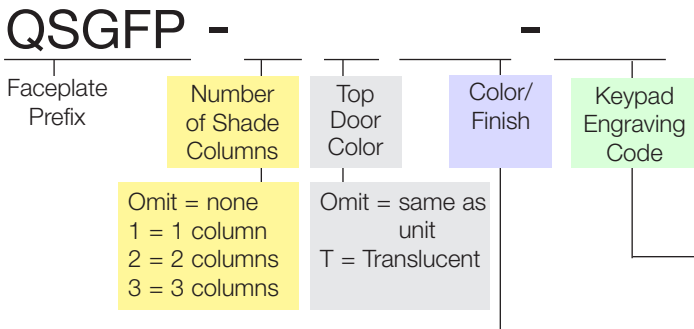
and

QSGFP-2IV-EGN

Ivory faceplate kit with two shade columns and general engraving

Faceplate Kit

(includes coordinating stripe and buttons)



Faceplate Custom Color/Finish Codes

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

Keypad Engraving Codes

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

<ul style="list-style-type: none"> • 1 • 2 • 3 • 4 • Off <p>Lighting keypad</p>	<ul style="list-style-type: none"> • Open • Preset • Close ▼ ▲ <p>Shade column</p>
---	---

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

GRAFIK Eye® QS

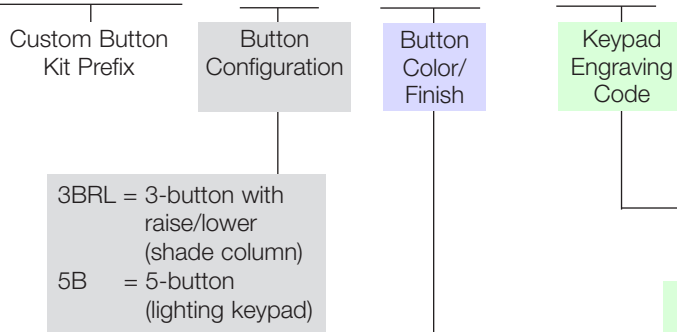
Wireless Control Unit: Custom Options and Model Numbers

See previous pages for Standard and Other Custom Model Numbers

See Standard Color Combinations page for faceplate, stripe, and button colors

Custom Button Kit

QSGB - 5B - WH -



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

Button Kit Custom Color/Finish Codes

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

Keypad Engraving Codes

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

EGN = General Engraving

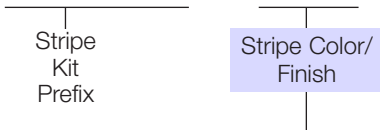
• 1	• Open
• 2	• Preset
• 3	• Close
• 4	
• Off	Shade column

Lighting keypad

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

Custom Stripe Kit

QSGS - WH

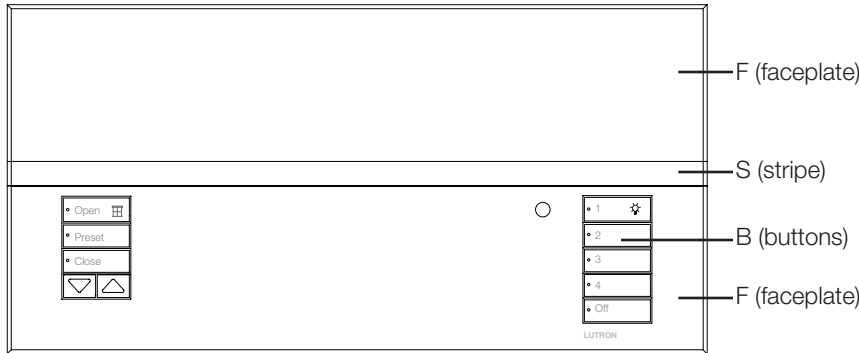


Stripe Custom Color/Finish Codes
 Same as Faceplate colors on previous page

GRAFIK Eye® QS

Wireless Control Unit: Standard Color Combinations

See previous pages for Standard and Custom Model Numbers



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

Example:

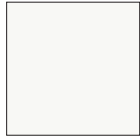
If you order QSGRJ-4P-1WH, your GRAFIK Eye® QS with 4 lighting zones and 1 shade zone will come with a white faceplate (both top and bottom), gray stripe, and white buttons.

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

GRAFIK Eye® QS

Colors and Finishes

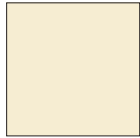
Architectural Matte Finishes (standard)



White
WH



Ivory
IV



Almond
AL



Light
Almond
LA



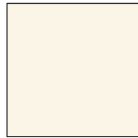
Gray
GR



Brown
BR



Black
BL

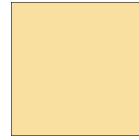


Beige
BE

Architectural Metal Finishes (Faceplate kit only)



Satin Brass
SB



Bright Brass
BB



Bright Chrome
BC



Clear Anodized
Aluminum
CLA



Black Anodized
Aluminum
BLA



Brass Anodized
Aluminum
BRA



Antique Brass
QB



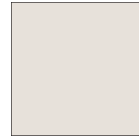
Antique Bronze
QZ



Satin Chrome
SC



Satin Nickel
SN



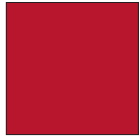
Bright Nickel
BN

- Due to printing limitations, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.
- Color chip keychains are available for more precise color matching:
Architectural Matte Finishes: AM-CK-1
Architectural Metal Finishes: AMTL-CK-1

GRAFIK Eye® QS

Colors and Finishes (continued)

Satin Finishes (Faceplate kit only)



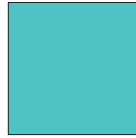
Hot
HT



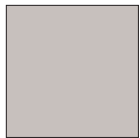
Merlot
MR



Plum
PL



Turquoise
TQ



Taupe
TP



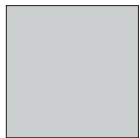
Eggshell
ES



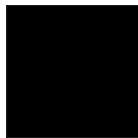
Biscuit
BI



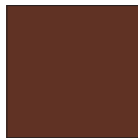
Snow
SW



Palladium
PD



Midnight
MN



Sienna
SI



Terracotta
TC



Greenbriar
GB



Bluestone
BG



Mocha Stone
MS



Goldstone
GS



Desert Stone
DS



Stone
ST



Limestone
LS

- Due to printing limitations, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.
- Color chip keychains are available for more precise color matching:

Satin Finishes: SC-CK-1