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## Overview

These instructions detail the available functions and the accompanying necessary settings for programming a QSE-IO control interface in a Lutron system. For wiring, installation, system setup, additional operation instructions, and other non-programming information, please refer to the documentation that accompanied this and other devices in your system.

## Programming Your System

The programming instructions in this guide are for standalone (GRAFIK Eye QS or QS link only) systems. For Energi Savr Node or Quantum systems, refer to the documentation that came with those products for programming instructions.

## Switches and Connections

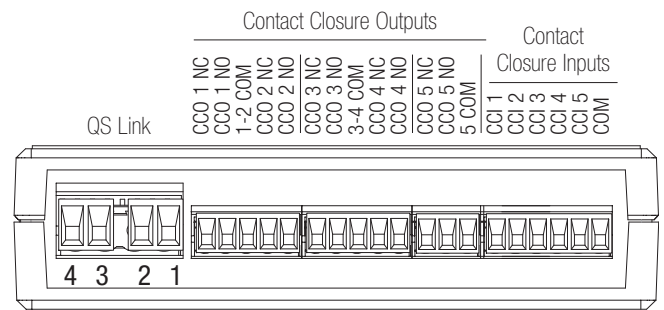
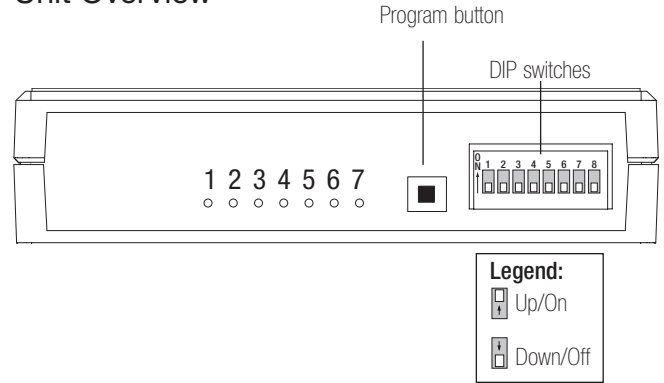
The DIP switches are numbered from 1 through 8. For operating mode configuration, only switches 3 through 8 are used (with certain noted exceptions; see the specific configuration instructions).

The CCI and CCO wiring terminals each accept one 28 to 16 AWG (0.08 to 1.5 mm<sup>2</sup>) wire. Refer to the specific configuration instructions for details on wiring for your desired operating mode.

## Operating Modes

Each QSE-IO can be assigned only one (1) operating mode from those detailed on the following pages. By choosing the correct input (CCI) terminal and accompanying DIP switch settings, you can select the specific action each operating mode will perform.

## Unit Overview



## QSE-IO Operating Modes and DIP Switch Settings Overview

Mode	Dip Switch						Contact Closures Invoke:						
Configuration	3	4	5	6	7	8	Input 1	Input 2	Input 3	Input 4	Input 5	Inputs	Outputs
Scene selection							Scene 1	Scene 2	Scene 3	Scene 4	Scene Off	Maintained or Momentary	Maintained
							Scene 5	Scene 6	Scene 7	Scene 8	Scene Off		
							Scene 9	Scene 10	Scene 11	Scene 12	Scene Off		
							Scene 13	Scene 14	Scene 15	Scene 16	Scene Off		
							Scene 1	Scene 2	Scene 3	Scene 4	Scene Off	Maintained or Momentary	Momentary
							Scene 5	Scene 6	Scene 7	Scene 8	Scene Off		
							Scene 9	Scene 10	Scene 11	Scene 12	Scene Off		
							Scene 13	Scene 14	Scene 15	Scene 16	Scene Off		
Special (maintained)							Sequence 5–16	Zone lockout	Scene lockout	Panic mode	Timeclock	Maintained	Maintained
Special (momentary)							Sequence 5–16	Zone lockout	Scene lockout	Panic mode	Timeclock	Momentary	
Special 2 (maintained)							Sequence 1–4	Zone lockout	Scene lockout	Panic mode	Afterhours mode	Maintained	Maintained
Special 2 (momentary)							Sequence 1–4	Zone lockout	Scene lockout	Panic mode	Afterhours mode	Momentary	
Shade input preset (“stop if moving”)							Shade open	Shade preset 1	Shade preset 2	Shade preset 3	Shade close	Maintained or Momentary	Maintained
Shade input preset (no “stop if moving”)													
Shade input (raise, lower, stop)							Shade open	Shade raise	Shade lower	Shade stop	Shade close	Momentary or Maintained	Maintained
Shade input dual group (“stop if moving”)							Open Group 1	Close Group 1	Open Group 2	Close Group 2	—	Maintained or Momentary	Maintained
Shade input dual group (no “stop if moving”)													
Shade input dual group (raise/lower)							Raise/Stop Group 1	Lower/Stop Group 1	Raise/Stop Group 2	Lower/Stop Group 2	—	Momentary	Momentary
Shade input toggle (“stop if moving”: open/stop/close/stop)							Toggle Group 1	Toggle Group 2	Toggle Group 3	Toggle Group 4	Toggle Group 5	Momentary	Momentary
Shade input toggle (no “stop if moving”: open/close)							Toggle Group 1	Toggle Group 2	Toggle Group 3	Toggle Group 4	Toggle Group 5	Maintained	Momentary
AC Shade output (maintained outputs)							Open Group 1	Stop Group 1	Close Group 1	Open Group 2	Close Group 2	Maintained or Momentary	Maintained
AC Shade output (momentary stop)							Open Group 1	Stop Group 1 if moving	Close Group 1	Open Group 2	Close Group 2	Maintained or Momentary	Maintained (except 2, which is Momentary)
AC Shade output (momentary outputs)							Open Group 1	Stop Group 1 if moving	Close Group 1	Open Group 2	Close Group 2	Maintained or Momentary	Momentary

**Notes**

- For AC shades with only 2 inputs (open/close), set DIP switch 1 to the up/on position to enable the feature that mimics “stop” (asserts both “open” and “close” CCOs together when a “stop” command is received).
- The QSE-IO provides no power, only a control signal, to AC shades. Refer to the instructions that came with your shades for more information.

**Legend:**

Up/On

Down/Off

## QSE-IO Operating Modes and DIP Switch Settings Overview (continued)

Mode	Dip Switch						Contact Closures Invoke:						
Configuration	3	4	5	6	7	8	Input 1	Input 2	Input 3	Input 4	Input 5	Inputs	Outputs
<b>Partitioning (momentary)</b>							Wall 1	Wall 2	Wall 3	Wall 4	Wall 5	Momentary	Maintained
<b>Partitioning (maintained)</b>							Wall 1	Wall 2	Wall 3	Wall 4	Wall 5	Maintained	Maintained
<b>Occupancy sensor (auto on/off)</b>							Generates events on occupancy and vacancy					Maintained	Maintained
<b>Occupancy sensor (manual on/auto off)</b>							Generates events on vacancy only					Maintained	Maintained
<b>Zone toggle (maintained)</b>							Toggle 1	Toggle 2	Toggle 3	Toggle 4	Toggle 5	Maintained	Maintained
<b>Zone toggle (momentary)</b>							Toggle 1	Toggle 2	Toggle 3	Toggle 4	Toggle 5	Momentary	
<b>Zone toggle with raise/lower (maintained)</b>							Toggle 1	Toggle 2	Toggle 3	Raise	Lower	Maintained	
<b>Zone toggle with raise/lower (momentary)</b>							Toggle 1	Toggle 2	Toggle 3	Raise	Lower	Momentary	
<b>Zone control (maintained output)</b>							Toggle 1	Toggle 2	Toggle 3	Toggle 4	Toggle 5	Maintained	Maintained
							Toggle 1	Toggle 2	Toggle 3	Toggle 4	Toggle 5	Momentary	
<b>Zone control (momentary output)</b>							Pulse 1	Pulse 2	Pulse 3	Pulse 4	Pulse 5	Maintained	Momentary
							Pulse 1	Pulse 2	Pulse 3	Pulse 4	Pulse 5	Momentary	
<b>Zone control (pulsed output)</b>							Pulse 1	Pulse 2	Pulse 3	Pulse 4	Pulse 5	Maintained	Pulsed
							Pulse 1	Pulse 2	Pulse 3	Pulse 4	Pulse 5	Momentary	
<b>Hotel configuration 1</b>							Service (make up room)	Privacy (do not disturb)	Doorbell	Start/end afterhours mode	Toggle Scene 1/ Off	1-3: Maintained or Momentary 4-5: Maintained	Maintained (except 3)
<b>Hotel configuration 2</b>							Service (make up room)	Privacy (do not disturb)	Doorbell	Start/end afterhours mode	Enable/disable Scene lockout	1-3: Maintained or Momentary 4-5: Maintained	Maintained (except 3)
<b>Integration configuration</b>							Control output 1	Control output 2	Control output 3	Control output 4	Control output 5	Maintained or Momentary	Maintained or Momentary

**Notes**

- Occupancy sensor: Each input represents 1 sensor/group of sensors. Response to sensor event is programmable at the assigned lighting control.
- “Momentary” output pulse is of fixed duration (250 ms default).  
“Pulsed” output duration corresponds to activating button being held/released.
- Hotel: “Service” and “Privacy” are mutually exclusive; “Doorbell” is locked out when “Privacy” is active.
- DIP switch 1 must be up/on to activate the “Start/End Afterhours” feature on CCI4.
- DIP switch 2 must be up/on to activate the “Toggle Scene” or “Scene Blackout” feature on CCI 5.
- Occupancy sensors will not participate in partitioning logic.

**Legend:**

Up/On

Down/Off

## Equipment/Functionality Table

<b>Look below for the Equipment/ Functionality you have/want, then</b>  <b>Look to the right for the Operating Mode you need to refer to for the correct DIP switch setting and programming instructions</b>  <b>Table applies only to standalone systems See next page for notes</b>		Scene Selection	Special	Shade Input Preset	Shade Input Raise, Lower, Stop	Shade Input Dual Group	Shade Input Dual Group Raise/Lower	Shade Input Toggle Open/Close (stop if moving)	Shade Input Toggle Open/Close	Shade Output Maintained Outputs	Shade Output Momentary Stop	Shade Output Momentary Outputs	Partitioning	Occupancy Sensor	Zone Toggle	Zone Control Maintained Outputs	Zone Control Momentary Outputs	Zone Control Pulsed Outputs	Hotel	Integration
Contact Closure Inputs	Maintained	√	√	√	√	√			√	√			√	√	√	√			√	√
	Momentary	√	√	√	√	√	√	√			√	√	√	√			√	√	√	√
Contact Closure Outputs	Maintained	√	√	√	√	√				√			√	√	√	√			√	√
	Momentary						√	√	√		√	√					√			√
	Pulsed																	√	√	√
Control Sivoia QS Shades via CCLs	Open/Close			√	√	√		√	√											
	3 Presets			√																
	Raise/Lower				√		√													
	Stop if Moving			√		√		√												
	1 Shade Group			√	√															
	2 Shade Groups					√	√													
5 Shade Groups							√	√												
Control AC Shades from QS Shade Controllers (wallstations) via CCOs										√	√	√								
Control/Monitor GRAFIK Eye QS and/or Energi Savr Node QS	Scene Control via CCLs	√																		√
	Scene Monitor via CCOs	√																		
	Zone Toggle via CCLs														√	√	√	√		
	Zone Monitor via CCOs														√					
	Sequencing		√																	
	Scene Lockout		√																	√
	Zone Lockout		√																	
	Panic		√																	
	Afterhours Start/Stop		√																	√
Timeclock Disable (GRAFIK Eye QS only)		√																		
Implement Partition Logic for 5 Partition Walls via CCLs													√							
Receive Signals from up to 5 Groups of Occupancy Sensors														√						
Integrate a QS System into a Hotel Room																				√
Control RS232 or Ethernet and/or Monitor CCLs/CCOs																				√
Control CCOs from QS Input Devices (e.g., wallstations)										√	√	√			√	√	√	√	√	√

**Notes**

- Table applies only to standalone systems (GRAFIK Eye QS or Enerji Savr Node systems). For Quantum systems, refer to the instructions that accompanied that equipment.
- A Momentary output pulse is of fixed duration (250 ms default).
- A Pulsed output pulse's duration corresponds to the activating button being held/released.
- Possible QS input devices include seeTouch QS wallstations, Pico wireless controls (via a QSM), QS keyswitch, QS IR Eye remote, another QSE-IO control interface, or shade keypads on a GRAFIK Eye QS control unit.

## Scene Selection Operating Mode

- Links to one or more GRAFIK Eye QS control units and/or Energi Savr Node areas.
- CCI's select between 4 scenes and Off.
- CCO's track currently active scene.
- Inputs: either momentary or maintained.
- Outputs: all maintained or all momentary (see chart).
- Communicates directly with GRAFIK Eye QS control units and Energi Savr Node systems.

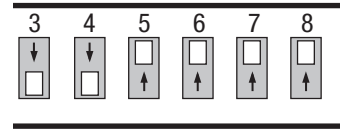
## Programming Instructions

1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LEDs 1 through 5 will cycle.
2. To assign a GRAFIK Eye QS control unit to the QSE-IO, press and hold the Scene 1 button on the GRAFIK Eye QS for 3 seconds. Repeat to assign additional GRAFIK Eye QS control units.
3. Exit programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds.

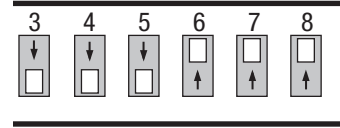
For programming instructions for Energi Savr Node systems, see "Energi Savr Node Handheld Programming Guide" at [www.lutron.com](http://www.lutron.com).

### Dip Switch Settings

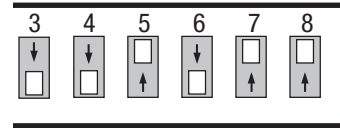
### Related Action



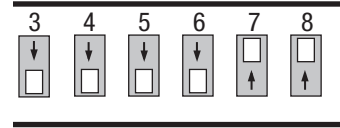
Input 1: Scene 1  
 Input 2: Scene 2  
 Input 3: Scene 3  
 Input 4: Scene 4  
 Input 5: Off  
 Outputs: Maintained



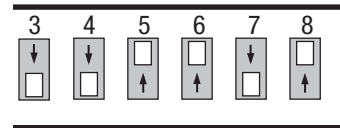
Input 1: Scene 5  
 Input 2: Scene 6  
 Input 3: Scene 7  
 Input 4: Scene 8  
 Input 5: Off  
 Outputs: Maintained



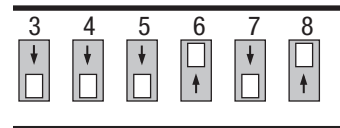
Input 1: Scene 9  
 Input 2: Scene 10  
 Input 3: Scene 11  
 Input 4: Scene 12  
 Input 5: Off  
 Outputs: Maintained



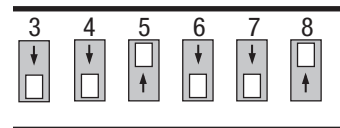
Input 1: Scene 13  
 Input 2: Scene 14  
 Input 3: Scene 15  
 Input 4: Scene 16  
 Input 5: Off  
 Outputs: Maintained



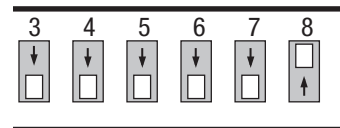
Input 1: Scene 1  
 Input 2: Scene 2  
 Input 3: Scene 3  
 Input 4: Scene 4  
 Input 5: Off  
 Outputs: Momentary



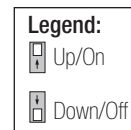
Input 1: Scene 5  
 Input 2: Scene 6  
 Input 3: Scene 7  
 Input 4: Scene 8  
 Input 5: Off  
 Outputs: Momentary



Input 1: Scene 9  
 Input 2: Scene 10  
 Input 3: Scene 11  
 Input 4: Scene 12  
 Input 5: Off  
 Outputs: Momentary



Input 1: Scene 13  
 Input 2: Scene 14  
 Input 3: Scene 15  
 Input 4: Scene 16  
 Input 5: Off  
 Outputs: Momentary



## Special Operating Mode: Sequencing

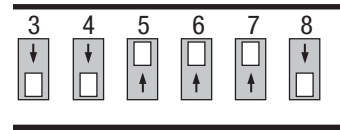
- Links to one or more GRAFIK Eye QS control units and/or Energi Savr Node areas.
- Moves sequentially through a group of scenes (see chart) using Input 1.
- Inputs: momentary only or maintained only (see chart)
  - Maintained: closure enables sequencing; opening disables sequencing.
  - Momentary: button press toggles between enable and disable sequencing.
- Outputs: maintained.
- Communicates directly with GRAFIK Eye QS control units and Energi Savr Node systems.

### Programming Instructions

1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LEDs 1 through 5 will cycle.
2. To assign a GRAFIK Eye QS control unit to the QSE-IO, press and hold the Scene 1 button on the GRAFIK Eye QS control unit for 3 seconds. Repeat to assign additional GRAFIK Eye QS control units.
3. Exit programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds.

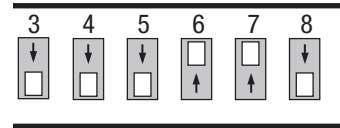
For programming instructions for Energi Savr Node systems, see "Energi Savr Node Handheld Programming Guide" at [www.lutron.com](http://www.lutron.com).

### Dip Switch Settings

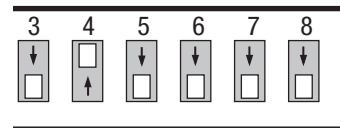


### Related Action

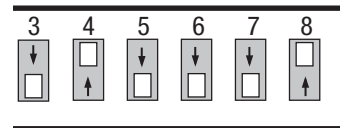
Maintained Inputs:  
 Input 1: closure enables, opening disables sequencing Scenes 5-16  
 Output: Maintained



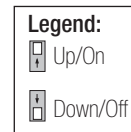
Momentary Inputs:  
 Input 1: button press toggles enable/disable sequencing Scenes 5-16  
 Output: Maintained



Maintained Inputs:  
 Input 1: closure enables, opening disables sequencing Scenes 1-4  
 Output: Maintained



Momentary Inputs:  
 Input 1: button press toggles enable/disable sequencing Scenes 1-4  
 Output: Maintained



## Special Operating Mode: Zone Lockout

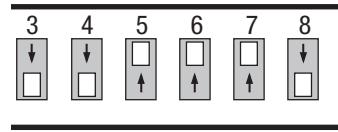
- Links to one or more GRAFIK Eye QS control units and/or Energi Savr Node areas.
- Prevents modifications to programmed preset light levels using Input 2.
- Inputs: momentary only or maintained only (see chart)
  - Maintained: closure enables lockout; opening disables lockout.
  - Momentary: button presses toggle between enable and disable lockout.
- Outputs: maintained only.
- Communicates directly with GRAFIK Eye QS control units and Energi Savr Node systems.

### Programming Instructions

1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LEDs 1 through 5 will cycle.
2. To assign a GRAFIK Eye QS control unit to the QSE-IO, press and hold the Scene 1 button on the GRAFIK Eye QS control unit for 3 seconds. Repeat to assign additional GRAFIK Eye QS control units.
3. Exit programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds.

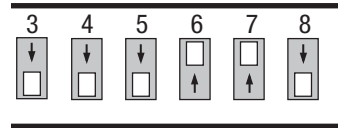
For programming instructions for Energi Savr Node systems, see "Energi Savr Node Handheld Programming Guide" at [www.lutron.com](http://www.lutron.com).

### Dip Switch Settings

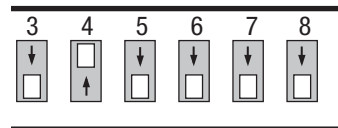


### Related Action

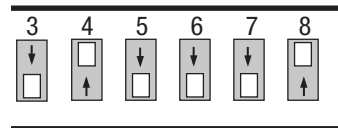
Maintained Inputs:  
Input 2: closure enables,  
opening disables zone lockout  
Output: Maintained



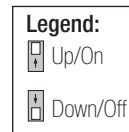
Momentary Inputs:  
Input 2: button press toggles  
enable/disable zone lockout  
Output: Maintained



Maintained Inputs:  
Input 1: closure enables,  
opening disables zone lockout  
Output: Maintained



Momentary Inputs:  
Input 1: button press toggles  
enable/disable zone lockout  
Output: Maintained





## Special Operating Mode: Scene Lockout

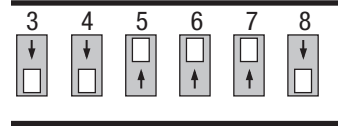
- Links to one or more GRAFIK Eye QS control units and/or Energi Savr Node areas.
- Prevents selected scene or programmed preset levels from changing using Input 3.
- Inputs: momentary only or maintained only (see chart)
  - Maintained: closure enables lockout; opening disables lockout.
  - Momentary: button presses toggle between enable and disable lockout.
- Outputs: maintained.
- Communicates directly with GRAFIK Eye QS control units and Energi Savr Node systems.

### Programming Instructions

1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LEDs 1 through 5 will cycle.
2. To assign a GRAFIK Eye QS control unit to the QSE-IO, press and hold the Scene 1 button on the GRAFIK Eye QS control unit for 3 seconds. Repeat to assign additional GRAFIK Eye QS control units.
3. Exit programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds.

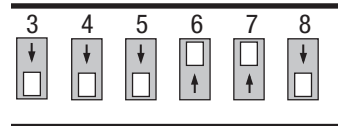
For programming instructions for Energi Savr Node systems, see "Energi Savr Node Handheld Programming Guide" at [www.lutron.com](http://www.lutron.com).

### Dip Switch Settings

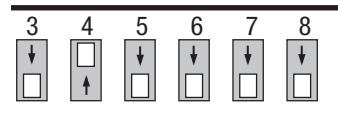


### Related Action

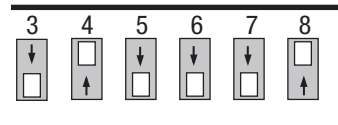
Maintained Inputs:  
Input 3: closure enables, opening disables scene lockout  
Output: Maintained



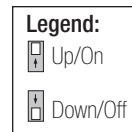
Momentary Inputs:  
Input 3: button press toggles enable/disable scene lockout  
Output: Maintained



Maintained Inputs:  
Input 1: closure enables, opening disables scene lockout  
Output: Maintained



Momentary Inputs:  
Input 1: button press toggles enable/disable scene lockout  
Output: Maintained



## Special Operating Mode: Panic

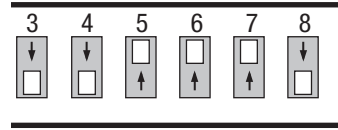
- Links to one or more GRAFIK Eye QS control units and/or Energi Savr Node areas.
- Activates Scene 16 and enables scene lockout using Input 4.
- Inputs: momentary only or maintained only (see chart)
  - Maintained: closure enables panic; opening disables panic.
  - Momentary: button presses toggle between enable and disable panic.
- Outputs: maintained only.
- Communicates directly with GRAFIK Eye QS control units and Energi Savr Node systems.

### Programming Instructions

1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LEDs 1 through 5 will cycle.
2. To assign a GRAFIK Eye QS control unit to the QSE-IO, press and hold the Scene 1 button on the GRAFIK Eye QS control unit for 3 seconds. Repeat to assign additional GRAFIK Eye QS control units.
3. Exit programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds.

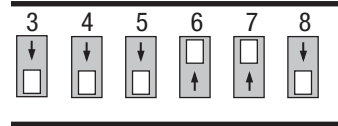
For programming instructions for Energi Savr Node systems, see "Energi Savr Node Handheld Programming Guide" at [www.lutron.com](http://www.lutron.com).

### Dip Switch Settings

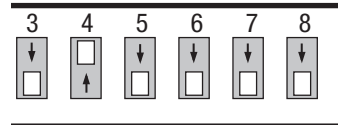


### Related Action

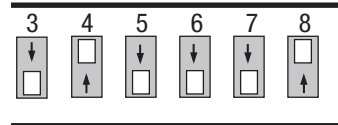
Maintained Inputs:  
Input 4: closure enables, opening disables panic  
Output: Maintained



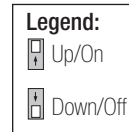
Momentary Inputs:  
Input 4: button press toggles enable/disable panic  
Output: Maintained



Maintained Inputs:  
Input 1: closure enables, opening disables panic  
Output: Maintained



Momentary Inputs:  
Input 1: button press toggles enable/disable panic  
Output: Maintained



## Special Operating Mode: Timeclock

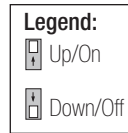
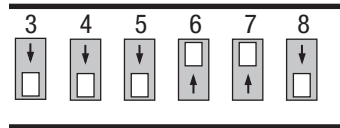
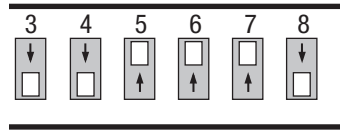
- Links to one or more GRAFIK Eye QS control units.
- On GRAFIK Eye QS control units only, disables internal timeclock using Input 5.
- Inputs: momentary only or maintained only (see chart)
  - Maintained: closure disables timeclock; opening enables timeclock.
  - Momentary: button presses toggle between disable and enable timeclock.
- Outputs: maintained only.
- Communicates directly with GRAFIK Eye QS control units.

### Programming Instructions

1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LEDs 1 through 5 will cycle.
2. To assign a GRAFIK Eye QS control unit to the QSE-IO, press and hold the Scene 1 button on the GRAFIK Eye QS control unit for 3 seconds. Repeat to assign additional GRAFIK Eye QS control units.
3. Exit programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds.

For programming instructions for Energi Savr Node systems, see "Energi Savr Node Handheld Programming Guide" at [www.lutron.com](http://www.lutron.com).

### Dip Switch Settings



### Related Action

Maintained inputs  
 Input 5: contact closure disables timeclock; contact opening enables timeclock  
 Output: Maintained

Momentary inputs  
 Input 5: button press toggles disable/enable timeclock  
 Output: Maintained

## Special Operating Mode: Afterhours

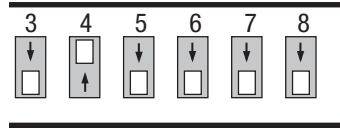
- Links to one or more GRAFIK Eye QS control units and/or Energi Savr Node areas.
- Enables afterhours mode using Input 5.
- Inputs: momentary only or maintained only (see chart)
  - Maintained: closure enables afterhours; opening disables afterhours.
  - Momentary: button presses toggle between enable and disable afterhours.
- Outputs: maintained only.
- Communicates directly with GRAFIK Eye QS control units and Energi Savr Node systems.

### Programming Instructions

1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LEDs 1 through 5 will cycle.
2. To assign a GRAFIK Eye QS control unit to the QSE-IO, press and hold the Scene 1 button on the GRAFIK Eye QS control unit for 3 seconds. Repeat to assign additional GRAFIK Eye QS control units.
3. Exit programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds.

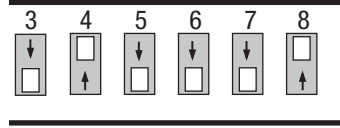
For programming instructions for Energi Savr Node systems, see "Energi Savr Node Handheld Programming Guide" at [www.lutron.com](http://www.lutron.com).

### Dip Switch Settings

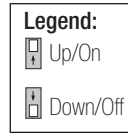


### Related Action

Maintained Inputs:  
Input 5: button press toggles enable/disable afterhours  
Output: Maintained



Momentary Inputs:  
Input 5: closure enables, opening disables afterhours  
Output: Maintained



## Shade Mode: Shade Input Preset

- Links to one or more Sivoia QS shades.
- Sends shades to a specified preset level, depending on input (see chart). Can be set to stop shades if moving.
- Inputs: momentary or maintained.
- Outputs: maintained only.
- Communicates directly with Sivoia QS shades.

### Programming Instructions

Assign shades before programming:

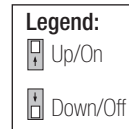
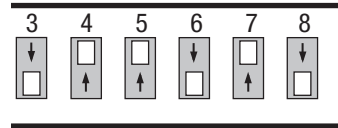
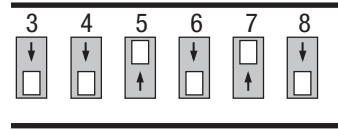
1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LEDs 1 and 5 will blink. Make sure DIP switch 1 is down (Off).
2. Shades that are currently assigned to the QSE-IO will move to their close limit, and shades that are not assigned will move to their open limit.
3. To select a shade, tap the Program button. The selected shade will wiggle up and down. To advance through all shades, tap the Program button. To go to the previous shade, double-tap the Program button.
4. When the desired shade is selected, press and hold the Program button for 3 seconds to assign it (if unassigned) or unassign it (if assigned) to the QSE-IO. The 5 LEDs will blink for 2 seconds to indicate success once you release the button.
5. When all shades you wish to be assigned are at their close limit, and all shades you wish to be unassigned are at their open limit, exit programming mode on the QSE-IO control interface: Press and hold the Program button for 10 seconds.

Program shades:

Three presets are available on QS shades. Shade default presets are:

- Preset 1: all assigned shades 75% open
- Preset 2: all assigned shades 50% open
- Preset 3: all assigned shades 25% open

### Dip Switch Settings



### Related Action

Stop if moving:  
 Closure toggles action/stop  
 Input 1: Open/Stop shade  
 Input 2: Shade to preset 1/Stop  
 Input 3: Shade to preset 2/Stop  
 Input 4: Shade to preset 3/Stop  
 Input 5: Close/Stop shade  
 Outputs: Maintained

No stop if moving:  
 Closure causes action  
 Input 1: Open shade  
 Input 2: Shade to preset 1  
 Input 3: Shade to preset 2  
 Input 4: Shade to preset 3  
 Input 5: Close shade  
 Outputs: Maintained

- To adjust these presets, follow these steps:
1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LEDs 1 and 5 will blink. Make sure DIP switch 1 is up (On) and DIP switches 2 and 3 are down (Off).
  2. Preset 1 will be selected. To advance through the presets, tap the Program button. To go to the previous preset, double-tap the Program button. LED 2, 3, or 4 will light to indicate which preset is selected (1, 2, or 3).
  3. When the desired preset is selected, press and hold the Program button for 2 seconds. All assigned QS shades will go to their assigned value for the selected preset.
  4. To select the shade you want to change, tap the Program button to advance through the assigned shades. The selected shade will wiggle up and down.
  5. When the desired shade is wiggling, set DIP switch 2 up (On). The shade will stop wiggling.
  6. To raise the selected QS shade to the desired position for this preset, set DIP switch 3 up (On) and use the Program button to adjust the QS shade. To lower the shade, set DIP switch 3 down (Off) and use the Program button to adjust.

*(continued on next page)*

## Shade Mode: Shade Input Preset (continued)

7. To move to another shade, set DIP switch 2 down (Off). Repeat steps 4 through 6 until all shades are set as desired for this preset.
8. With DIP switch 2 down (Off), press and hold the Program button on the QSE-IO for 3 seconds to save this preset. Return to step 2 to adjust additional presets.
9. Exit programming mode on the QSE-IO control interface: Press and hold the Program button for 10 seconds.

**Note:** At any point while DIP switch 2 is down (Off), press and hold the Program button for 10 seconds to exit programming mode without saving any presets.

### Setting Limits

The open and close limits must be set on shades to ensure they reach the desired levels when those buttons are pushed, and to ensure they do not go beyond those levels when being raised or lowered.

Remote limit setting is not supported by the QSE-IO control interface. To set limits before programming, see the programming guide that accompanied your shades. Or, if your system contains a GRAFIK Eye QS control unit or seeTouch QS wallstation, refer to the programming instructions for one of those devices.

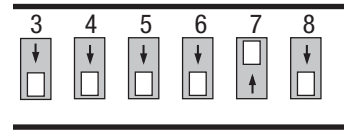
## Shade Mode: Shade Input Raise, Lower, Stop

- Links to one or more Sivoia QS shades.
- Allows user to open, close, raise, and lower shades, depending on input (see chart).
- Inputs: momentary or maintained.
- Outputs: maintained.
- Communicates directly with Sivoia QS shades.

### Programming Instructions

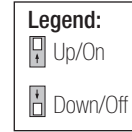
1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LEDs 1 and 5 will blink. Make sure DIP switch 1 is down (Off).
2. Shades that are currently assigned to the QSE-IO will move to their close limit, and shades that are not assigned will move to their open limit.
3. To select a shade, tap the Program button. The selected shade will wiggle up and down. To advance through all shades, tap the Program button. To go to the previous shade, double-tap the Program button.
4. When the desired shade is selected, press and hold the Program button for 3 seconds to assign it (if unassigned) or unassign it (if assigned) to the QSE-IO. The 5 LEDs will blink for 2 seconds to indicate success once you release the button.
5. When all shades you wish to be assigned are at their close limit, and all shades you wish to be unassigned are at their open limit, exit programming mode on the QSE-IO control interface: Press and hold the Program button for 10 seconds.

### Dip Switch Settings



### Related Action

Input 1: Open shade  
 Input 2: Raise shade  
 Input 3: Lower shade  
 Input 4: Stop shade  
 Input 5: Close shade  
 Outputs: Maintained



### Setting Limits

The open and close limits must be set on shades to ensure they reach the desired levels when those buttons are pushed, and to ensure they do not go beyond those levels when being raised or lowered.

Remote limit setting is not supported by the QSE-IO control interface. To set limits before programming, see the programming guide that accompanied your shades. Or, if your system contains a GRAFIK Eye QS control unit or seeTouch QS wallstation, refer to the programming instructions for one of those devices.

## Shade Mode: Shade Input Dual Group

- Links to one or more Sivoia QS shades.
- Allows user to open or close shades, depending on input (see chart). Can be set to stop shades if moving.
- Inputs: maintained or momentary.
- Outputs: maintained only.
- Communicates directly with Sivoia QS shades.

### Programming Instructions

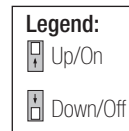
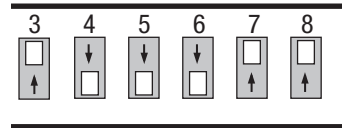
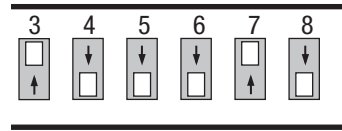
#### Group Selection

1. Make sure DIP switch 1 is down (Off).  
Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 5 seconds. The LED(s) corresponding to associated shade groups will blink rapidly.
2. To advance through all shade groups, tap the Program button. To go to the previous shade group, double-tap the Program button.
3. When the desired shade group is selected, set DIP switch 1 up (On) to "lock in" the selected group. The LEDs corresponding to the selected group will blink slowly.

#### Shade Selection

4. Shades that are currently assigned to the selected group will move to their close limit, and shades that are not assigned will move to their open limit.
5. To advance through shades, tap the Program button. To go to the previous shade, double-tap the Program button. The selected shade will wiggle.
6. To assign the selected (wiggling) shade to a group, press and hold the Program button for 5 seconds. The shade will close, indicating assignment. To unassign an assigned shade, select it (wiggle), then press and hold the Program button for 5 seconds. The shade will open, indicating it is no longer assigned.  
Repeat for all shades you wish to assign to this shade group.
7. Repeat steps 1 through 6 for all remaining shade groups and shades you wish to assign to those groups.
8. When all shades and shade groups are assigned, exit programming mode on the QSE-IO control interface: Press and hold the Program button for 10 seconds.

### Dip Switch Settings



### Related Action

Stop if moving:  
 Closure toggles action/stop  
 Input 1: Open/stop Group 1 shades  
 Input 2: Close/stop Group 1 shades  
 Input 3: Open/stop Group 2 shades  
 Input 4: Close/stop Group 2 shades  
 Input 5: No function  
 Outputs: Maintained

No stop if moving:  
 Closure causes action  
 Input 1: Open Group 1 shades  
 Input 2: Close Group 1 shades  
 Input 3: Open Group 2 shades  
 Input 4: Close Group 2 shades  
 Input 5: No function  
 Outputs: Maintained

### Notes

- 2 groups are available for this mode: Group 1 (CCI 1 and CCI 2), and Group 2 (CCI 3 and CCI 4).
- Preset Adjust Mode is not supported in this shade mode.

### Setting Limits

The open and close limits must be set on shades to ensure they reach the desired levels when those buttons are pushed, and to ensure they do not go beyond those levels when being raised or lowered.

Remote limit setting is not supported by the QSE-IO control interface. To set limits before programming, see the programming guide that accompanied your shades. Or, if your system contains a GRAFIK Eye QS control unit or seeTouch QS wallstation, refer to the programming instructions for one of those devices.



## Shade Mode: Shade Input Dual Group Raise/Lower

- Links to one or more Sivoia QS shades.
- Toggles raise/stop or lower/stop for groups of shades, depending on input (see chart).
- Inputs: momentary only.
- Outputs: momentary only.
- Communicates directly with Sivoia QS shades.

### Programming Instructions

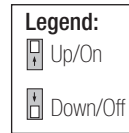
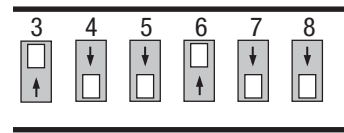
#### Group Selection

1. Make sure DIP switch 1 is down (Off).  
Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 5 seconds. The LED(s) corresponding to associated shade groups will blink rapidly.
2. To advance through all shade groups, tap the Program button. To go to the previous shade group, double-tap the Program button.
3. When the desired shade group is selected, set DIP switch 1 up (On) to "lock in" the selected group. The LEDs corresponding to the selected group will blink slowly.

#### Shade Selection

4. Shades that are currently assigned to the selected group will move to their close limit, and shades that are not assigned will move to their open limit.
5. To advance through shades, tap the Program button. To go to the previous shade, double-tap the Program button. The selected shade will wiggle.
6. To assign the selected (wiggling) shade to a group, press and hold the Program button for 5 seconds. The shade will close, indicating assignment. To unassign an assigned shade, select it (wiggle), then press and hold the Program button for 5 seconds. The shade will open, indicating it is no longer assigned.  
Repeat for all shades you wish to assign to this shade group.
7. Repeat steps 1 through 6 for all remaining shade groups and shades you wish to assign to those groups.
8. When all shades and shade groups are assigned, exit programming mode on the QSE-IO control interface: Press and hold the Program button for 10 seconds.

### Dip Switch Settings



### Related Action

Closure causes action;  
Opening stops action  
Input 1: Raise/Stop Group 1 shades  
Input 2: Lower/Stop Group 1 shades  
Input 3: Raise/Stop Group 2 shades  
Input 4: Lower/Stop Group 2 shades  
Input 5: No function  
Outputs: Momentary

### Notes

- 2 groups are available for this mode: Group 1 (CCI1 and CCI 2), and Group 2 (CCI3 and CCI 4).
- Preset Adjust Mode is not supported in this shade mode.

### Setting Limits

The open and close limits must be set on shades to ensure they reach the desired levels when those buttons are pushed, and to ensure they do not go beyond those levels when being raised or lowered.

Remote limit setting is not supported by the QSE-IO control interface. To set limits before programming, see the programming guide that accompanied your shades. Or, if your system contains a GRAFIK Eye QS control unit or seeTouch QS wallstation, refer to the programming instructions for one of those devices.

## Shade Mode: Shade Input Toggle

- Links to one or more Sivoia QS shades.
- Inputs: momentary (stop if moving: open/stop/close/stop) or maintained (no stop if moving: open/close).
- Outputs: momentary only (closure while assigned shade or shades are moving).
- Communicates directly with Sivoia QS shades.

### Programming Instructions

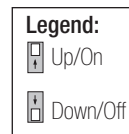
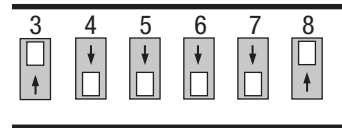
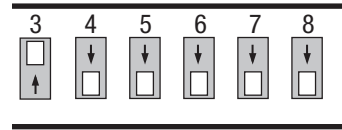
#### Group Selection

1. Make sure DIP switch 1 is down (Off). Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 5 seconds. The LED(s) corresponding to associated shade groups will blink rapidly.
2. To advance through all shade groups, tap the Program button. To go to the previous shade group, double-tap the Program button.
3. When the desired shade group is selected, set DIP switch 1 up (On) to "lock in" the selected group. The LEDs corresponding to the selected group will blink slowly.

#### Shade Selection

4. Shades that are currently assigned to the selected group will move to their close limit, and shades that are not assigned will move to their open limit.
5. To advance through shades, tap the Program button. To go to the previous shade, double-tap the Program button. The selected shade will wiggle.
6. To assign the selected (wiggling) shade to a group, press and hold the Program button for 5 seconds. The shade will close, indicating assignment. To unassign an assigned shade, select it (wiggle), then press and hold the Program button for 5 seconds. The shade will open, indicating it is no longer assigned. Repeat for all shades you wish to assign to this shade group.
7. Repeat steps 1 through 6 for all remaining shade groups and shades you wish to assign to those groups.
8. When all shades and shade groups are assigned, exit programming mode on the QSE-IO control interface: Press and hold the Program button for 10 seconds.

### Dip Switch Settings



### Related Action

Momentary inputs: Stop if moving:  
 Closure toggles open/stop/close/stop  
 Input 1: Toggle Group 1 shades  
 Input 2: Toggle Group 2 shades  
 Input 3: Toggle Group 3 shades  
 Input 4: Toggle Group 4 shades  
 Input 5: Toggle Group 5 shades  
 Outputs: Momentary

Maintained inputs: No stop if moving:  
 Opening closes shades  
 Closure opens shades  
 Input 1: Toggle Group 1 shades  
 Input 2: Toggle Group 2 shades  
 Input 3: Toggle Group 3 shades  
 Input 4: Toggle Group 4 shades  
 Input 5: Toggle Group 5 shades  
 Outputs: Momentary

### Notes

- 5 groups are available for this mode: Groups 1 through 5, corresponding to CCI1 through CCI 5.
- Preset Adjust Mode is not supported in this shade mode.

### Setting Limits

The open and close limits must be set on shades to ensure they reach the desired levels when those buttons are pushed, and to ensure they do not go beyond those levels when being raised or lowered.

Remote limit setting is not supported by the QSE-IO control interface. To set limits before programming, see the programming guide that accompanied your shades. Or, if your system contains a GRAFIK Eye QS control unit or seeTouch QS wallstation, refer to the programming instructions for one of those devices.

## Shade Mode: AC Shade Output

- Links to one or more of the following through the CCO connection on the QSE-IO interface:
  - third-party AC shade or projection screen groups
- Allows control of CCOs from QS devices, such as:
  - GRAFIK Eye QS shade column
  - seeTouch QS shade wallstation
  - Pico wireless control (through QSM)
  - QS keyswitch
  - QS IR Eye remote
  - another QSE-IO control device
  - QSE-CI-NWK-E Ethernet and RS232 interface

See charts for specifics on DIP switch settings and inputs/outputs that correspond to the signals required by various AC shades.
- Inputs: maintained or momentary.
- Outputs: see charts.
- Communicates directly with devices listed above.
 

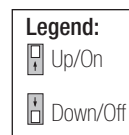
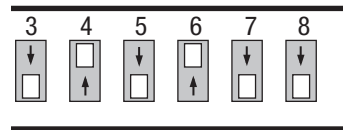
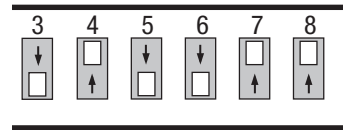
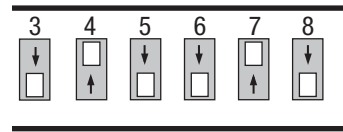
Special note: For AC shade controllers with only 2 inputs (open/close), set DIP switch 1 to the up/on position to enable the feature that mimics "stop" (asserts both "open" and "close" CCOs together when a "stop" command is received).

### Programming Instructions

1. Enter programming mode: Press and hold the open and close buttons on a GRAFIK Eye QS shade column or seeTouch QS shade wallstation for 3 seconds. The LEDs on the QSE-IO control device will turn off.
 

**Note:** For other supported device types, refer to the instructions that accompanied each one.
2. On the QSE-IO you wish to obey commands from that shade column or wallstation, tap the Program button on the QSE-IO once to assign shade Group 1 (LEDs 1 through 3 will blink), or twice to assign shade Group 2 (LEDs 4 and 5 will blink).
3. To unassign shade Group 1, tap the Program button once when LEDs 1 through 3 are blinking; the LEDs will stop blinking. To unassign shade Group 2, double-tap the Program button once when LEDs 4 and 5 are blinking; the LEDs will stop blinking.
4. Exit programming mode: Press and hold the open and close buttons on the shade column or wallstation for 3 seconds.

### Dip Switch Settings



### Related Action

Input 1: Open Group 1 shades  
 Input 2: Stop Group 1 shades  
 Input 3: Close Group 1 shades  
 Input 4: Open Group 2 shades  
 Input 5: Close Group 2 shades  
 Outputs: Maintained

Input 1: Open Group 1 shades  
 Input 2: Stop Group 1 shades  
 Input 3: Close Group 1 shades  
 Input 4: Open Group 2 shades  
 Input 5: Close Group 2 shades  
 Outputs: Maintained  
 (Output 2 is Momentary)

Input 1: Open Group 1 shades  
 Input 2: Stop Group 1 shades  
 Input 3: Close Group 1 shades  
 Input 4: Open Group 2 shades  
 Input 5: Close Group 2 shades  
 Outputs: Momentary

**Note:** The QSE-IO provides no power, only a control signal, to AC shades. Refer to the instructions that came with your shades for more information.

## Partitioning Mode

- Links to one or more GRAFIK Eye QS control units and/or Energi Savr Node areas per I/O input.
- Allows multiple GRAFIK Eye QS control units and/or Energi Savr Node areas to operate either independently (when the partition is closed) or in parallel (when the partition is open).
- Inputs: momentary only or maintained only (see chart)
  - Maintained: closure opens partition; opening closes partition.
  - Momentary: button presses toggle between open and closed partition.
- Outputs: maintained only.
- Communicates directly with GRAFIK Eye QS control units, Energi Savr Node systems, and GRX-IRPS transmitter/receiver pairs (through CCLs).

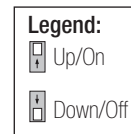
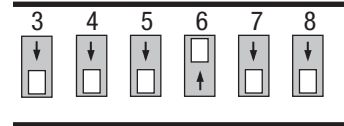
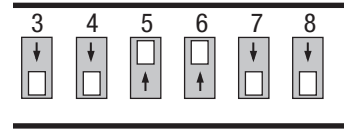
## Programming Instructions

1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LED 1 will blink.
2. Wall 1 will be selected. To advance through the assigned walls, tap the Program button. To go to the previous wall, double-tap the Program button.
3. When the desired wall is selected, to assign the GRAFIK Eye QS control unit to that wall, press and hold the scene 1 button on the GRAFIK Eye QS control unit for 3 seconds. Repeat to assign additional GRAFIK Eye QS control units to that wall; all control units assigned to that wall will work together when that wall is open.
4. Exit programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds.

**Note:** Occupancy sensors will not participate in partitioning logic.

For programming instructions for Energi Savr Node systems, see "Energi Savr Node Handheld Programming Guide" at [www.lutron.com](http://www.lutron.com).

### Dip Switch Settings



### Related Action

Momentary Inputs:  
 Input 1: toggles partition 1 open/closed  
 Input 2: toggles partition 2 open/closed  
 Input 3: toggles partition 3 open/closed  
 Input 4: toggles partition 4 open/closed  
 Input 5: toggles partition 5 open/closed  
 Outputs: Maintained

Maintained Inputs:  
 Contact closure opens partition; opening closes partition  
 Input 1: opens/closes partition 1  
 Input 2: opens/closes partition 2  
 Input 3: opens/closes partition 3  
 Input 4: opens/closes partition 4  
 Input 5: opens/closes partition 5  
 Outputs: Maintained

## Occupancy Sensor Mode

- Links to one or more GRAFIK Eye QS control units per I/O input.
- Allows communication so that an occupancy sensor can turn on the assigned areas, while still allowing scene changes once the room is occupied.
- 2 modes: Auto On–Auto Off  
initiates events based on occupancy and/or vacancy  
Manual On–Auto Off  
initiates events based on vacancy
- Inputs: maintained only
- Outputs: maintained only.
- Communicates directly with GRAFIK Eye QS control units and wired occupancy sensors (through CCIs)

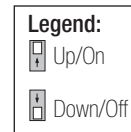
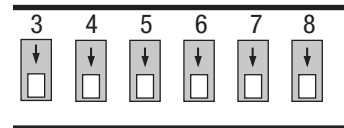
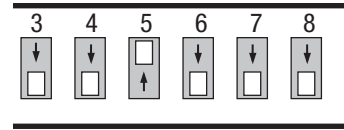
Special note: Each input represents one sensor or group of sensors. Response to the sensor event (on occupancy and vacancy) is programmable at the assigned lighting control device.

### Programming Instructions

**Note:** If multiple occupancy sensors are programmed to control the same space, the first sensor triggered will initiate the occupancy event, and all sensors must register vacancy to trigger the vacancy event.

1. Enter programming mode on the GRAFIK Eye QS control unit. Press and hold the top and bottom scene buttons for 3 seconds. The main menu will be displayed.
2. Navigate to and select occupancy sensor setup on the GRAFIK Eye QS menu (Sensor Setup > Occupancy > Setup). It will start searching for sensors.
3. Scroll through the list of sensors until the desired sensor is found. The screen will show the QSE-IO's serial number at the top, and CCI number (1-5) in the lower right corner.
4. Press the OK button and proceed to assign the sensor.
5. Exit programming mode on the GRAFIK Eye control unit. Press and hold the top and bottom scene buttons for 3 seconds.

### Dip Switch Settings



### Related Action

Auto On–Auto Off:  
Contact closure: Initiates occupancy event  
Contact opening: Initiates vacancy event  
Outputs: Maintained

Manual On–Auto Off:  
Contact closure: No event  
Contact opening: Initiates vacancy event  
Outputs: Maintained

**Note:** For more information and occupancy settings, see "GRAFIK Eye QS Control Unit Installation and Operation Guide" at [www.lutron.com](http://www.lutron.com)

**Note:** Occupancy sensors will not participate in partitioning logic.

## Zone Toggle Mode

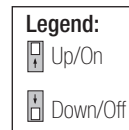
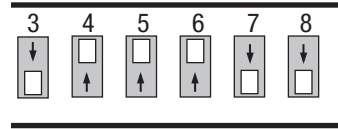
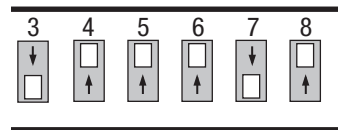
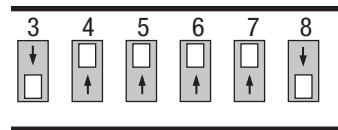
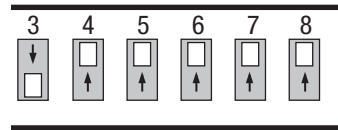
- Links to one or more GRAFIK Eye QS control unit zones and/or Energi Savr Node zones.
- Toggles between Off and a user-preset zone level.
- Inputs: momentary only or maintained only, and correspond to either 5 independently controlled zones or groups of zones, or 3 independently controlled zones or groups of zones plus zone raise and lower (see chart).
  - Maintained: closure turns zones on to preset level(s); opening turns zone(s) off.
  - Momentary: closure toggles zone(s) between preset level(s) and off; opening has no effect.
- Outputs: maintained.
- Communicates directly with GRAFIK Eye QS control units and Energi Savr Node systems.

### Programming Instructions

1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LED 1 will blink.
2. Zone Toggle input 1 will be selected. To advance through the inputs, tap the Program button. To go to the previous input, double-tap the Program button.
3. On the GRAFIK Eye QS control unit, use the raise and lower buttons for the zone you want to assign to the selected input on the QSE-IO control interface, and set the desired level. Then, press and release the raise and lower buttons together to assign that zone to the selected input on the QSE-IO control interface. Repeat this step for any other zones that you wish to be toggled by the selected input (on the same or any other GRAFIK Eye QS control units in the system). To unassign assigned zones, press and release the raise and lower buttons together.
4. Repeat steps 2 and 3 for each zone toggle input on the QSE-IO control interface.
5. Exit programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds.

For programming instructions for Energi Savr Node systems, see "Energi Savr Node Handheld Programming Guide" at [www.lutron.com](http://www.lutron.com).

### Dip Switch Settings



### Related Action

Maintained Inputs:  
 Closure turns zone on;  
 opening turns zone off  
 Input 1: toggle preset level 1/Off  
 Input 2: toggle preset level 2/Off  
 Input 3: toggle preset level 3/Off  
 Input 4: toggle preset level 4/Off  
 Input 5: toggle preset level 5/Off  
 Outputs: Maintained

Momentary Inputs:  
 Closure toggles zone  
 Input 1: toggle preset level 1/Off  
 Input 2: toggle preset level 2/Off  
 Input 3: toggle preset level 3/Off  
 Input 4: toggle preset level 4/Off  
 Input 5: toggle preset level 5/Off  
 Outputs: Maintained

Maintained Inputs:  
 Closure turns zone on;  
 opening turns zone off  
 Input 1: toggle preset level 1/Off  
 Input 2: toggle preset level 2/Off  
 Input 3: toggle preset level 3/Off  
 Input 4: raise last zone toggled  
 Input 5: lower last zone toggled  
 Outputs: Maintained

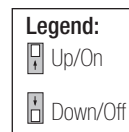
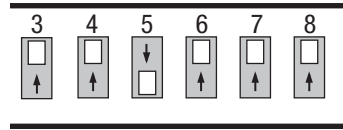
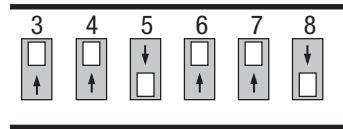
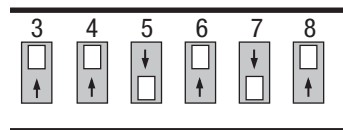
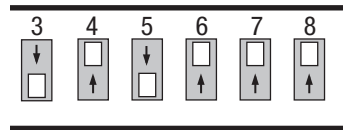
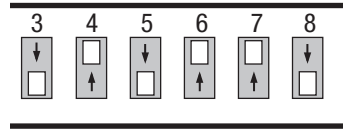
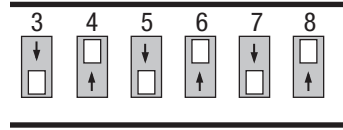
Momentary Inputs:  
 Closure toggles zone  
 Input 1: toggle preset level 1/Off  
 Input 2: toggle preset level 2/Off  
 Input 3: toggle preset level 3/Off  
 Input 4: raise last zone toggled  
 Input 5: lower last zone toggled  
 Outputs: Maintained

## Zone Control Mode

- Allows seeTouch wallstations, Pico wireless controls (via a QSM), QS keyswitches, or other QSE-IO control devices to toggle CCOs.
- Optionally, can additionally link to one or more GRAFIK Eye QS control unit zones and/or Energi Savr Node zones.
- CCOs toggle between Off and a user-preset zone level.
- Inputs: momentary only or maintained only, and correspond to 5 independently controlled zones or groups of zones.
  - Maintained: closure turns zones on to preset level(s); opening turns zone(s) off.
  - Momentary: closure toggles zone(s) between preset level(s) and off; opening has no effect.
- Outputs:
  - Maintained only (button press on input device toggles output)
  - Momentary only (button press on input device triggers momentary pulse)
  - Pulsed only (CCO status follows activating button status, where if button is released, CCO is open, and if button is pressed, CCO is closed).
- Communicates directly with seeTouch wallstations, Pico wireless controls (via a QSM), QS keyswitches, or other QSE-IO control devices.

**Special note:** "Momentary" output pulse is of fixed duration (250 ms default). "Pulsed" output pulse duration corresponds to activating button being held/released.

### Dip Switch Settings



### Related Action

Maintained Inputs, Maintained outputs:  
 Closure turns zone on;  
 opening turns zone off  
 Input 1: toggle preset level 1/Off  
 Input 2: toggle preset level 2/Off  
 Input 3: toggle preset level 3/Off  
 Input 4: toggle preset level 4/Off  
 Input 5: toggle preset level 5/Off  
 Outputs toggled by QS input devices

Maintained Inputs, Momentary output:  
 Closure turns zone on;  
 opening turns zone off  
 Input 1: toggle preset level 1/Off  
 Input 2: toggle preset level 2/Off  
 Input 3: toggle preset level 3/Off  
 Input 4: toggle preset level 4/Off  
 Input 5: toggle preset level 5/Off  
 Outputs pulsed by QS input devices

Maintained Inputs, Pulsed output:  
 Closure turns zone on;  
 opening turns zone off  
 Input 1: toggle preset level 1/Off  
 Input 2: toggle preset level 2/Off  
 Input 3: toggle preset level 3/Off  
 Input 4: toggle preset level 4/Off  
 Input 5: toggle preset level 5/Off  
 Outputs pulsed by QS input devices

Momentary input, Maintained output:  
 Closure toggles zone  
 Input 1: toggle preset level 1/Off  
 Input 2: toggle preset level 2/Off  
 Input 3: toggle preset level 3/Off  
 Input 4: toggle preset level 4/Off  
 Input 5: toggle preset level 5/Off  
 Outputs toggled by QS input devices

Momentary input, Momentary output:  
 Closure toggles zone  
 Input 1: toggle preset level 1/Off  
 Input 2: toggle preset level 2/Off  
 Input 3: toggle preset level 3/Off  
 Input 4: toggle preset level 4/Off  
 Input 5: toggle preset level 5/Off  
 Outputs pulsed by QS input devices

Momentary input, Pulsed output:  
 Closure toggles zone  
 Input 1: toggle preset level 1/Off  
 Input 2: toggle preset level 2/Off  
 Input 3: toggle preset level 3/Off  
 Input 4: toggle preset level 4/Off  
 Input 5: toggle preset level 5/Off  
 Outputs pulsed by QS input devices

(continued on next page)

## Zone Control Mode (continued)

### Programming Buttons on QS Input Devices to the CCOs

seeTouch QS Wallstation

**Note:** Wallstation must be set up for zone toggle mode; see the instructions that accompanied your wallstation for instructions.

1. Enter programming mode on the wallstation: Hold the top and bottom buttons for 5 seconds.
2. Press the button on the wallstation that you wish to program.
3. On the QSE-IO control device, tap the Program button to advance through the CCOs (the LED for the selected CCO will blink rapidly). When you have reached the CCO that you wish to assign to the selected button on the wallstation, press and hold the Program button on the QSE-IO control device for 5 seconds, then release. The LED will flash to confirm assignment.
4. To unassign an assigned CCO, select that CCO as above, and press and hold the Program button on the QSE-IO control device for 5 seconds.
5. Repeat steps 3 and 4 for any other CCOs you wish to assign to this wallstation button.
6. Repeat steps 2 through 5 to program additional buttons on the wallstation.
7. Exit programming mode: Press and hold the top and bottom buttons on the wallstation for 5 seconds.

QS Keyswitch

**Note:** Keyswitch must be set up for zone toggle mode; see the instructions that accompanied your keyswitch for instructions.

1. Enter programming mode on the keyswitch: press and hold its Program button for 5 seconds. (You must remove the faceplate and faceplate adapter to access the Program button.)
2. On the QSE-IO control device, tap the Program button to advance through the CCOs (the LED for the selected CCO will be blink rapidly). When you have reached the CCO that you wish to assign to the selected button on the wallstation, press and hold the Program button on the QSE-IO control device for 5 seconds. The LED will flash to confirm assignment.

3. To unassign an assigned CCO, select that CCO as above, and press and hold the Program button on the QSE-IO control device for 5 seconds.
4. Repeat steps 3 and 4 for any other CCOs you wish to assign to this keyswitch.
5. Exit programming mode: Press and hold the Program button on the keyswitch for 5 seconds. Replace the Faceplate adapter and faceplate on the keyswitch.

CCI on a Different QSE-IO Control Device

**Note:** On the control device to be programmed, the DIP switches must be in Zone Toggle configuration to toggle a CCO on a control device in Zone Control configuration. If correctly applied, this programming mode can be used to translate maintained signals into momentary, or vice versa.

1. Enter programming mode on the Zone Toggle QSE-IO control interface: Press and hold the Program button for 3 seconds. LED 1 will blink.
2. CCI1 will be selected. To advance through the inputs, tap the Program button. To go to the previous input, double-tap the Program button.
3. On the Zone Control QSE-IO control interface, tap the Program button to advance through the CCOs (the LED for the selected CCO will blink rapidly). When you have reached the CCO that you wish to assign to the selected CCI, press and hold the Program button on the Zone Control QSE-IO control device for 5 seconds. The LED will flash to confirm assignment.
4. To unassign an assigned CCO, select that CCO as above, and press and hold the Program button on the QSE-IO control device for 5 seconds.
5. Repeat steps 3 and 4 for any other CCOs you wish to assign to this CCI on the Zone Toggle QSE-IO control interface.
6. Repeat steps 2 through 5 to program additional CCIs on the Zone Toggle QSE-IO control device.
7. Exit programming mode on the Zone Toggle QSE-IO control interface: Press and hold the Program button for 3 seconds.

*(continued on next page)*



## Zone Control Mode (continued)

### Programming Instructions (continued)

#### Pico Wireless Control

**Note:** Pico wireless control must already be associated to a QSM and must have been set as Zone type (this is the default type). Refer to the QSM documentation for programming instructions. A Pico control device programmed as a Zone type can be assigned to one or more CCOs. All buttons on the Pico control device affect the same CCO or group of CCOs. However, any button on the Pico control device can be programmed to take any of its assigned CCOs to any state (Open or Close).

1. Enter programming mode on the Pico wireless control: press and hold the top and bottom buttons for 5 seconds.
2. Press the button on the Pico wireless control that you wish to program. (Raise/Lower buttons need not be programmed.)
  - CCOs on the QSE-IO control device that are already programmed to Close when this button is pushed will have their LEDs constantly on.
  - CCOs on the QSE-IO control device that are already programmed to Open when this button is pushed will have their LEDs flashing slowly (once per second).
  - CCOs that are not programmed to do anything when this button is pushed will have their LEDs constantly off.
3. On the QSE-IO control device, tap the Program button to advance through the available states that can be programmed to correspond to button presses on the Pico wireless control. To go to the previous state, double-tap the Program button.
  - State A (Initial state): No action. All LEDs are Off.
  - State B: CCO1 Open  
LED1 alternates between flashing rapidly and Off.
  - State C: CCO1 Close  
LED1 alternates between flashing rapidly and On.
  - State D: CCO2 Open  
LED2 alternates between flashing rapidly and Off.
  - State E: CCO2 Close  
LED2 alternates between flashing rapidly and On.
  - State F: CCO3 Open  
LED3 alternates between flashing rapidly and Off.
  - State G: CCO3 Close  
LED3 alternates between flashing rapidly and On.
  - State H: CCO4 Open  
LED4 alternates between flashing rapidly and Off.
  - State I: CCO4 Close  
LED4 alternates between flashing rapidly and On.
  - State J: CCO5 Open  
LED5 alternates between flashing rapidly and Off.
  - State K: CCO5 Close  
LED5 alternates between flashing rapidly and On.
4. Press and hold the Program button on the QSE-IO control device for 5 seconds to complete the assignment. The selected LED will blink rapidly to confirm the assignment.
 

**Note:** If this is the first time you are assigning this combination of CCO and Pico wireless control, the QSE-IO control device will automatically assign that CCO to all the other buttons on the Pico wireless control (using default settings).
5. To unassign an assigned CCO, select that CCO as above, and press and hold the Program button on the QSE-IO control device for 5 seconds. The selected LED will blink rapidly to confirm the unassignment. Note that the CCO will automatically be unassigned from all buttons on the Pico wireless control.
6. Repeat steps 3 through 5 for any other CCOs you wish to assign to the selected button.
7. Repeat steps 2 through 6 for additional buttons.
8. Exit programming mode: Press and hold the top and bottom buttons on the Pico wireless control.

*(continued on next page)*

## Zone Control Mode (continued)

### Programming Instructions (continued)

#### CCOs Follow GRAFIK Eye QS Zones

Each CCO can be set up to be controlled by a GRAFIK Eye QS zone.

**Note:** To be assigned to a CCO, a GRAFIK Eye QS control unit must first be set to the "Remote Non-Dim" load type. A GRAFIK Eye QS zone can be mapped to only one CCO.

1. Enter programming mode on the GRAFIK Eye QS control unit: Press and hold the top and bottom scene buttons for 3 seconds. The LEDs in the scene buttons will scroll from top to bottom, and the info screen will display the main menu.
2. Use the Master buttons to the right of the screen to navigate to the "Remote Zone" menu, and press the OK button.
3. On the GRAFIK Eye QS control unit, press the raise or lower button for the zone you want to assign to the selected output on the QSE-IO control interface.
4. On the QSE-IO control interface, repeatedly press the Program button until the LED for the CCO you want to assign to with the zone is flashing.
5. Press and hold the Program button on the QSE-IO control interface for 5 seconds to complete the assignment.
6. To unassign a CCO, repeat steps 4 and 5 with an assigned CCO.
7. Repeat steps 3 through 6 to assign/unassign GRAFIK Eye QS zones to additional CCOs.
7. Exit programming mode on the GRAFIK Eye QS control unit: Press and hold the top and bottom scene buttons simultaneously for 3 seconds. The info screen will go to Scene 1.

#### CCIs Toggle GRAFIK Eye QS and Energi Savr Node Zones

**Note:** On the control device to be programmed, the DIP switches must be in Zone Toggle configuration. DIP switch 1 must be down (Off).

1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LED 1 will blink.
2. CCI1 will be selected. To advance through the inputs, tap the Program button. To go to the previous input, double-tap the Program button.
3. On the GRAFIK Eye QS control unit, use the raise and lower buttons for the zone you want to assign to the selected input on the QSE-IO control interface, and set the desired level. Then, press and release the raise and lower buttons together to assign that zone to the selected input on the QSE-IO control interface. Repeat this step for any other zones that you wish to be toggled by the selected input (on the same or any other GRAFIK Eye QS control units in the system). To unassign assigned zones, press and release the raise and lower buttons together.
4. Repeat steps 2 and 3 for each zone toggle input on the QSE-IO control interface.
5. Repeat steps 3 and 4 for any other zones you wish to assign to this CCI on the QSE-IO control interface.
6. Repeat steps 2 through 5 to program additional CCIs on the QSE-IO control device.
7. Exit programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds.

For programming instructions for Energi Savr Node systems, see "Energi Savr Node Handheld Programming Guide" at [www.lutron.com](http://www.lutron.com).

*(continued on next page)*

## Zone Control Mode (continued)

### Programming Instructions (continued)

CCIs Toggle CCOs on the same  
QSE-IO Control Device

**Note:** On the control device to be programmed, the DIP switches must be in Zone Toggle configuration. DIP switch 1 must be up (On). If correctly applied, this programming mode can be used to translate momentary signals into maintained, or vice versa.

If needed, it is possible to program the same CCIs to GRAFIK Eye QS zones, Energi Savr Node zones, and/or local CCOs on the same QSE-IO control device.

1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LED 1 will blink.
2. Toggle or pulse a CCI to select it. If no equipment is connected to the CCI, this can be accomplished by momentarily connecting a jumper wire between that CCI and CCI COMMON.
3. To advance through the CCOs, tap the Program button. To go to the previous CCO, double-tap the Program button.
4. Press and hold the Program button to assign the selected CCO to the selected CCI.
5. Repeat steps 3 and 4 for any additional CCOs you wish to assign to the selected CCI.
6. Repeat steps 2 through 5 to select additional CCIs to complete your desired assignments.
7. Exit programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds.

## Hotel Mode

- Links to one or more GRAFIK Eye QS control units and/or Energi Savr Node areas.
- Accepts inputs from seeTouch QS wallstations, Pico wireless control devices (through a QSM), QS keyswitches, or other QSE-IO control devices, allowing the mode to toggle between Service (make up room) and Privacy (do not disturb), as well as to ring a doorbell.
- Allows interface with hotel room equipment. Toggles outputs; Afterhours Mode; Scene 1 and Off scene; or Scene Lockout (see chart).
- Inputs: maintained (input 3 is momentary).
- Outputs: maintained or momentary.
- Communicates directly with seeTouch wallstations, Pico wireless controls (via a QSM), QS keyswitches, or other QSE-IO control devices.
- Inputs 4 (Start/End Afterhours) and 5 (Scene 1/Off, or Scene Lockout) are designed to be wired to a hotel room keycard holder (input 4 recommended), or third-party contact closure signals from the hotel reception desk at check-in and check-out (input 5 recommended). When a GRAFIK Eye QS control unit or Energi Savr Node area is in Afterhours mode, the lights will turn off after a programmable timeout (default is 5 minutes). If a button is pushed, turning the lights back on while in Afterhours mode, the lights will once again go off after a separate programmable timeout (default is 45 minutes). Before turning off, the lights flash to warn any occupant in the space. When Afterhours mode is ended, this behavior stops and the lights return to their previous state.

**Special note:** "Service" and "Privacy" will automatically mutually exclude each other. "Doorbell" is blocked when "Privacy" is active.

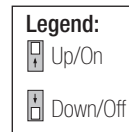
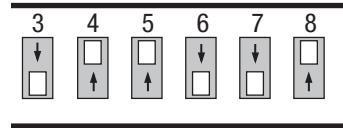
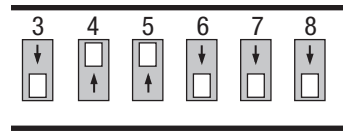
### Programming Instructions

[Programming Buttons on a seeTouch QS Wallstation to CCOs 1, 2 and 3 \(Service, Privacy and Doorbell\)](#)

#### Notes

- Wallstation must be set up for zone toggle mode; see the instructions that accompanied your wallstation.

### Dip Switch Settings



### Related Action

Mode 1:  
 Input 1: toggle output 1  
 Input 2: toggle output 2  
 Input 3: pulse output 3  
 Input 4: start/end Afterhours mode  
 Input 5: toggle Scene 1/Off

Mode 2:  
 Input 1: toggle output 1  
 Input 2: toggle output 2  
 Input 3: pulse output 3  
 Input 4: start/end Afterhours mode  
 Input 5: enable/disable Scene Lockout

Standard Usage:  
 Output 1: Service (make up room)  
 Output 2: Privacy (do not disturb)  
 Output 3: Doorbell

Outputs 1 and 2 are mutually exclusive  
 Output 2 active disables Output 3

Either Input 4 or Input 5 (not both) can be active; the other must be disabled

- DIP switch 1 up (on): Input 4 activated
- DIP switch 1 down (off): Input 4 disabled
- DIP switch 2 up (on): Input 5 activated
- DIP switch 2 down (off): Input 5 disabled

- Due to the mutually exclusive nature of the Service, Privacy, and Doorbell CCOs, a given button on the wallstation can be programmed to only one of the three CCOs. However, multiple buttons may be programmed to the same CCO.
1. Enter programming mode on the wallstation: Hold the top and bottom buttons for 5 seconds.
  2. Press the button on the wallstation that you wish to program.
  3. On the QSE-IO control device, tap the Program button to advance through CCOs 1, 2, and 3 (the LED for the selected CCO will blink rapidly). When you have reached the CCO that you wish to assign to the selected button on the wallstation, press and hold the Program button on the QSE-IO control device for 5 seconds. The LED will flash to confirm assignment.
  4. To unassign an assigned CCO, select that CCO as above, and press and hold the Program button on the QSE-IO control device for 5 seconds.
  5. Repeat steps 2 through 4 to program additional buttons on the wallstation.
  6. Exit programming mode: Press and hold the top and bottom buttons on the wallstation for 5 seconds.

## Hotel Mode (continued)

### Programming Instructions (continued)

Programming Buttons on a Pico Wireless Control to CCOs 1, 2, and 3 (Service, Privacy and Doorbell)

#### Notes

- The Pico wireless control must already be associated to a QSM and must have been set as Zone type (the default type). Refer to the QSM documentation for programming instructions.
  - A Pico wireless control programmed as a Zone type can be assigned to either:
    - CCO1 (Service) and CCO2 (Privacy) together, where the top button of the Pico will command "Service" and the bottom button will command "Privacy" (2 button Pico wireless control recommended)
    - CCO3 (Doorbell), where the middle button of the Pico wireless control will ring the doorbell (unless the Privacy signal is asserted)
1. Enter programming mode on the Pico wireless control: Press and hold the top and bottom buttons for 5 seconds.
  2. On the QSE-IO control device, tap the Program button to advance through CCOs 1, 2, and 3 (the LED for the selected CCO will blink rapidly). When you have reached the CCO that you wish to assign to the Pico wireless control, press and hold the Program button on the QSE-IO control device for 5 seconds. The LED will flash to confirm assignment.
  3. To unassign an assigned CCO, select that CCO as above, and press and hold the Program button on the QSE-IO control device for 5 seconds. The selected LED will blink rapidly to confirm the unassignment.
  4. Exit programming mode: Press and hold the top and bottom buttons for 5 seconds.

Programming CCI 4 and 5 to a GRAFIK Eye QS Control Unit or an Energi Savr Node Unit

1. Enter programming mode on the QSE-IO control interface: Press and hold the Program button for 3 seconds. LED 4 will blink.
2. Input 4 will be selected. To select between Input 4 and Input 5, tap the Program button.
3. When the desired input is selected, to assign the GRAFIK Eye QS control unit to that input, press and hold the Scene 1 button on the GRAFIK Eye QS control unit for 3 seconds. Repeat to assign additional GRAFIK Eye QS control units to that input.
4. Press and hold the Program button on the QSE-IO control interface for 3 seconds to exit programming mode.

**Note:** For programming instructions for Energi Savr Node systems, see "Energi Savr Node Handheld Programming Guide" at [www.lutron.com](http://www.lutron.com).

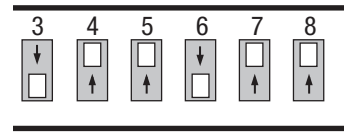
## Integration Mode

- Allows a QSE-CI-NWK-E control device to communicate with contact closure based third-party equipment.
- Inputs: momentary or maintained.
- Outputs: momentary or maintained.
- Communicates directly with a QSE-CI-NWK-E control device.

## Programming Instructions

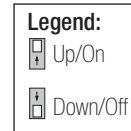
No programming is necessary. See the Lutron Integration Protocol document (P/N 040249) at [www.lutron.com](http://www.lutron.com) for supported commands.

### Dip Switch Settings



### Related Action

Input 1: notify QSE-CI-NWK-E  
 Input 2: notify QSE-CI-NWK-E  
 Input 3: notify QSE-CI-NWK-E  
 Input 4: notify QSE-CI-NWK-E  
 Input 5: notify QSE-CI-NWK-E



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