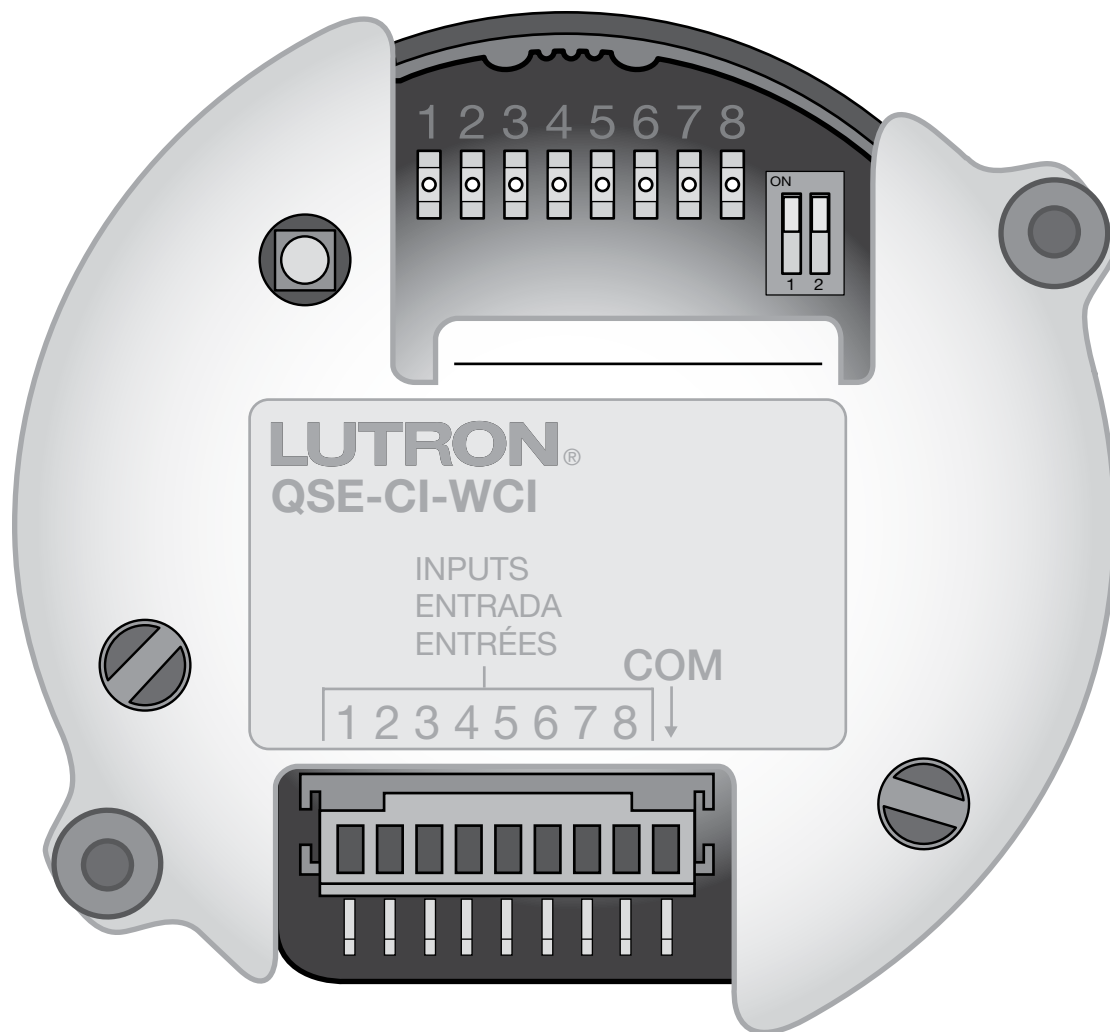


# Wallbox Input Closure Interface Programming Guide



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**Note:** The QSE-CI-WCI does not support Partition functionality.

# Programming for Standalone Applications

## Please Read Completely Before Programming

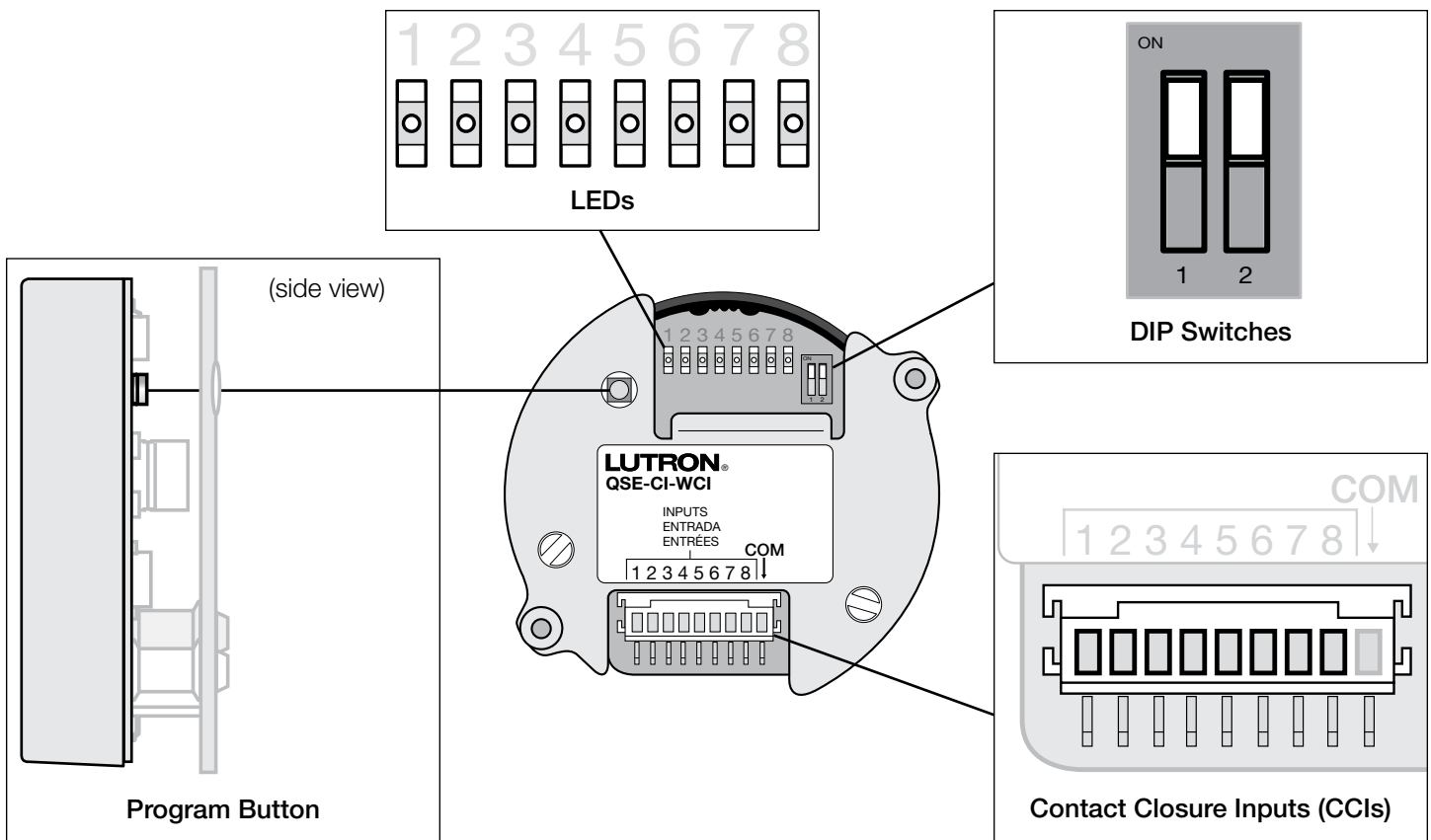
**Note:** This guide is intended for standalone applications. Use the appropriate setup software for programming in Homeworks® QS or Quantum® systems.

Ensure that **Wiring** and **Wiring Verification** instructions have been completed according to the **QSE-CI-WCI Instruction Sheet** provided with the product.

## Overview

The QSE-CI-WCI (WCI) accepts up to eight contact closure inputs (maintained or momentary signals). For QS standalone applications, the inputs are programmable on the unit itself using the program button, DIP switches, and LEDs.

- Program button allows for ease of programming and resetting to factory default.
- DIP switches allow for selection of input control options.
- LEDs provide instant feedback during setup and diagnostics:
  - confirmation during *Programming* mode
  - verification of which contacts are asserted
  - indication of communication miswire/malfunction



### Color associated with each CCI

CCI	1	2	3	4	5	6	7	8
Color	Red	Orange	Yellow	Green	Blue	Violet	Gray	White

**Note:** The WCI is designed to work with a contact closure keypad. The contact closure keypad is provided by the customer and is not included with the WCI.

# Programming for Standalone Applications

## Select Settings

The default settings of the WCI allow for momentary inputs and raise and lower inputs on a contact closure keypad. Change the DIP Switch settings on the WCI to match your application.

First, select either Momentary or Maintained via DIP Switch 2, and then select either Raise/Lower or No Raise/Lower (when DIP Switch 1 is ON, CCI 7 (gray) and 8 (white) will be *Lower* and *Raise*, respectively).

When DIP Switch 2 is On (set to Momentary), all CCIs will be momentary. When DIP Switch 2 is Off (set to Maintained), all CCIs will be maintained.

### DIP Switch 1

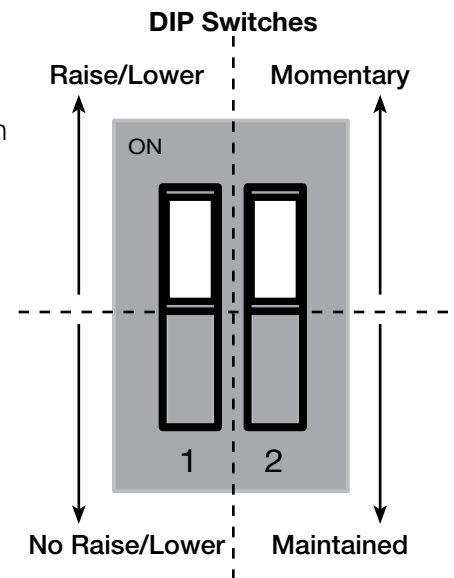
Select between options:

- ON: Raise/Lower (Default)
- OFF: No Raise/Lower

### DIP Switch 2

Select between input types:

- ON: Momentary (Default)
- OFF: Maintained



# Programming for Standalone Applications

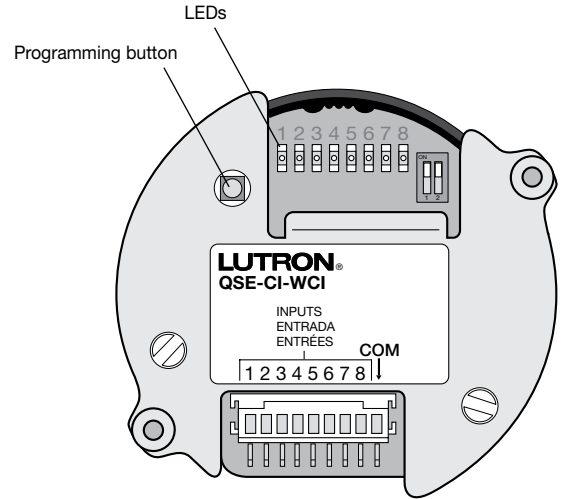
## Enter Programming Mode

To assign QS devices (or output devices) to the WCI, enter *Programming* mode by pressing and holding the Program button for 3 seconds. The current functionality of the WCI can be determined by observing the LEDs. By default, the WCI will display the waterfall pattern (LEDs 1 through 6\* scroll left to right).

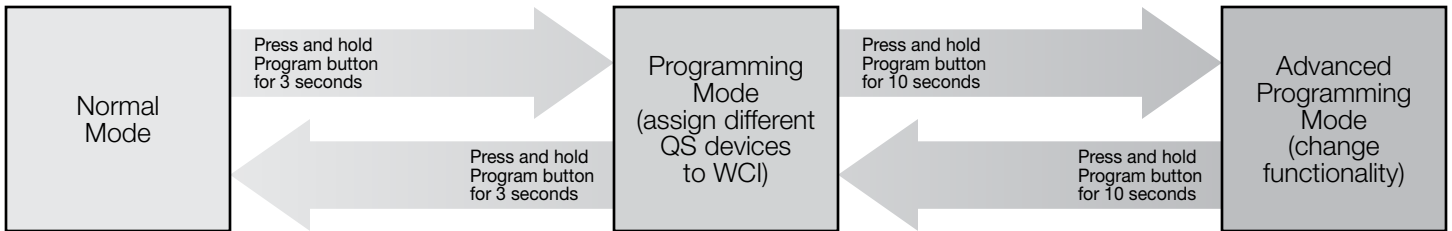
- *Scene* or *Scene + Off*: Waterfall Pattern is displayed. Scene + Off functionality is the factory default.
- *Zone* or *Shade Toggle*: Single LED on WCI is blinking and corresponds to the last-pressed button on the contact closure keypad. LED 1 is the default when *Programming* mode is entered.
- *Shade*: LED 1 and LED 6\* are blinking. All assigned shades will close; all unassigned shades will open.

\* When No Raise/Lower is selected, LEDs 1 through 8 will be active in the waterfall pattern. For Shade: LED 1 and LED 8 are blinking.

**Note:** Unit will return to normal operation after 10 minutes.



### Programming Progression



# Programming for Standalone Applications

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## Programming Mode

### Change Functionality

Change of functionality is achieved in the *Advanced Programming* mode on the WCI unit, the GRAFIK Eye® QS control unit, and the Energi Savr Node™ app.

If no change in functionality is desired, skip to the Programming Assignments section.

**Note:** The WCI cannot be used as a Partition controller.

#### **Change Functionality: WCI Advanced Programming Mode**

Enter *Advanced Programming* mode by pressing and holding the program button for a full 10 seconds even though LEDs will turn off before the allotted time has passed.

Once *Advanced Programming* mode has been entered, all LEDs will blink once.

Each press of the Program button will cycle through these options:

- LED 1: Scene + Off
- LED 2: Scene
- LED 3: Zone
- LED 4: Shade
- LED 5: Shade Toggle

Once the desired functionality has been selected, press and hold the Program button for 10 seconds to return to *Programming* mode.

Once unit is back in *Programming* mode, LEDs will reflect the new selected functionality (refer back to *Enter Programming Mode* section: *Scene* or *Scene + Off* (Waterfall Pattern); *Zone* or *Shade Toggle* (Single LED of last-pressed button/CCI); *Shade* (LED 1 and LED 6 are blinking).

#### **Change Functionality: GRAFIK Eye® QS Control Unit**

- Enter *Programming* mode on WCI as described in the previous section.
- The GRAFIK Eye® QS control unit screen will display *Keypad Change Type?*. Press *OK* to enter menu.
- Press *Raise/Lower* buttons on the GRAFIK Eye® QS control unit to navigate the menu for selecting options (e.g. *Shade*, *Scene*). Press *OK* to select the desired option. Depending on the selected option, additional options will be displayed.

#### **Change Functionality: Energi Savr Node™ App**

- Go to the *System Setup* screen and select *Program QS Devices* on the Energi Savr Node™ app.
- Press and hold the *Program* button on the WCI for 3 seconds to enter the WCI into *Programming* mode.
- The screen will display the *Wall Controls*. Select *Change Control Type*.
- Select desired functionality of the WCI.

## Programming Mode (continued)

### Programming Assignments

#### Scene or Scene + Off Functionality

##### GRAFIK Eye® QS Control Unit

- To assign the GRAFIK Eye® QS control unit to the WCI, hold the Scene 1 button on the GRAFIK Eye® QS control unit; the LEDs on the GRAFIK Eye® QS control unit will flash.
- To unassign the GRAFIK Eye® QS control unit, hold the Scene 5 button on the GRAFIK Eye® QS control unit until the flashing LEDs turn off.

##### Energi Savr Node™ Unit (QSN-4T16-S and QSN-4S16-S)

- To assign an Energi Savr Node™ unit zone to the WCI, press the *Raise* and *Lower* buttons on the Energi Savr Node™ unit; the corresponding Zone LED on the Energi Savr Node™ unit will start blinking.
- Repeat this process for each additional Energi Savr Node™ unit zone to be included in the scene assignment.
- To unassign an output, press the *Raise* and *Lower* buttons on the Energi Savr Node™ unit; the blinking Zone LED will turn off.

##### Energi Savr Node™ Unit (QSNE-4T10-D, QSNE-4S10-D, and QSNE-4A-D)

- To assign an Energi Savr Node™ unit zone to the WCI, press and hold the desired Zone button for 3 seconds; the corresponding LED will start blinking.
- Repeat this process for each additional Energi Savr Node™ unit zone to be included in the scene assignment.
- To unassign a zone, press and hold the assigned Zone button on the Energi Savr Node™ unit for 3 seconds; the blinking Zone LED will turn off.

##### Energi Savr Node™ Unit (QSNE-2DAL-D, QSN-1ECO-S, QSN-2ECO-S, and QSNE-2ECO-D)

- Follow the prompts of the Energi Savr Node™ app to assign the desired Energi Savr Node™ area to the WCI. The app is required for unassigning Energi Savr Node™ areas.

# Programming for Standalone Applications

## Programming Mode (continued)

### Programming Assignments (continued)

#### Zone Functionality

Activate the CCI to be assigned or cycle to it by tapping the Program button; the flashing LED on the WCI indicates the selected CCI. To activate the CCI to be assigned either:

- short its corresponding CCI wire with Common, or
- press the corresponding button (if the contact closure keypad has already been wired to the WCI).

For mapping of zones to CCI, refer to Configuration Table on page 11.

#### GRAFIK Eye® QS Control Unit

- Adjust the level of the zone to be assigned using the *Raise* and *Lower* Zone buttons on the GRAFIK Eye® QS control unit.
- To assign a zone to the activated CCI, press the *Raise* and *Lower* Zone control buttons; the LEDs associated with that zone on the GRAFIK Eye® QS control unit will begin flashing.
- Repeat for each additional GRAFIK Eye® QS control unit zone to be assigned to the CCI.
- To unassign a zone, press the *Raise* and *Lower* zone control buttons for 3 seconds until the Zone LEDs stop flashing.

#### Energi Savr Node™ Unit (QSN-4T16-S and QSN-4S16-S)

- Adjust the level of the zone to be assigned using the *Raise* and *Lower* Zone buttons on the Energi Savr Node™ unit.
- To assign an Energi Savr Node™ unit zone to the activated CCI, press the *Raise* and *Lower* zone buttons on the Energi Savr Node™ unit; the corresponding zone LED on the Energi Savr Node™ unit will start blinking.
- Repeat this process for each additional Energi Savr Node™ unit zone to be assigned to the CCI.
- To unassign a zone, press the *Raise* and *Lower* zone buttons on the Energi Savr Node™ unit; the blinking zone LED will turn off.

#### Energi Savr Node™ Unit (QSNE-4T10-D, QSNE-4S10-D, and QSNE-4A-D)

- Adjust the level of the zone to be assigned using the *Raise* and *Lower* Zone buttons on the Energi Savr Node™ unit.
- To assign an Energi Savr Node™ unit zone to the activated CCI, press and hold the Zone button for 3 seconds; the corresponding zone LED on the Energi Savr Node™ unit will start blinking.
- Repeat this process for each additional Energi Savr Node™ unit zone to be assigned the CCI.
- To unassign a zone, press and hold the Zone button on the Energi Savr Node™ unit for 3 seconds; the blinking zone LED will turn off.

#### Energi Savr Node™ Unit (QSNE-2DAL-D, QSN-1ECO-S, QSN-2ECO-S, and QSNE-2ECO-D)

- Follow the prompts of the Energi Savr Node™ app to assign the desired Energi Savr Node™ zones in an area to the WCI. Activate CCI that you wish to assign when prompted during zone setup. The app is required for unassigning Energi Savr Node™ areas.



## Programming Mode (continued)

### Programming Assignments (continued)

#### Shade Functionality

##### Sivoia® QS and Venetian Electronic Drive Units (EDU)

- Press any button on an EDU to toggle it between assigned and unassigned.
  - Assigned shades will close and the LED on the EDU will blink.
  - Unassigned shades will open and the LED on the EDU will turn off.
- Repeat this process to assign multiple EDUs.

##### Motor Group Controller Unit (QSE-CI-4M-D)

- To assign a Motor Group Controller unit zone to the WCI, press and hold the desired Zone button for 3 seconds; the corresponding LED will start blinking.
- Repeat this process for each additional Motor Group Controller unit zone to be included in the scene assignment.
- To unassign a zone, press and hold the assigned Zone button on Motor Group Controller unit for 3 seconds; the blinking Zone LED will turn off.

**Note:** *Preset* buttons perform stop-if-moving function with Momentary CCI input. *Stop-if-Moving* functionality is not available with Maintained CCI input.

##### QSE-IO Interface programmed in Shade Output Mode (QSE-IO)

**Note:** See QSE-IO Installation Instructions for proper DIP Switch setting before programming the WCI.

- To assign Shade Group 1, tap the *Program* button on the QSE-IO once; LEDs 1–3 will blink. To assign shade Group 2, tap the *Program* button on the QSE-IO twice; LEDs 4–5 will blink.
- To unassign shade Group 1, tap the *Program* button on the QSE-IO once when LEDs 1–3 are blinking; the LEDs will stop blinking. To unassign shade Group 2, double-tap the *Program* button on the QSE-IO once when LEDs 4–5 are blinking; the LEDs will stop blinking.

**Note:** LEDs on QSE-IO will be Off when the WCI is in *Programming* mode.

# Programming for Standalone Applications

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## Programming Mode (continued)

### Programming Assignments (continued)

#### Shade Toggle Functionality

Activate the CCI to be assigned or cycle to it by tapping the Program button; the flashing LED on the WCI indicates the selected CCI. To activate the CCI to be assigned either:

- Short its corresponding CCI wire with Common, or
- Press the corresponding button (if the contact closure keypad has already been wired to the WCI).

#### Sivoia® QS and Venetian Electronic Drive Units (EDU)

- With the CCI to be assigned activated, press any button on an EDU to toggle it between assigned and unassigned.
- Repeat this process to assign multiple EDUs.

#### Motor Group Controller Unit (QSE-CI-4M-D)

- To assign a Motor Group Controller unit zone to the WCI, press and hold the Zone button for 3 seconds; the corresponding zone LED on the Motor Group Controller unit will start blinking.
- Repeat this process for each additional Motor Group Controller unit zone to be assigned to the CCI.
- To unassign a zone, press and hold the Zone button on the Motor Group Controller unit for 3 seconds; the blinking zone LED will turn off.

## Exit Programming Mode

To exit *Programming* mode, press and hold the Program button for 3 seconds until the LEDs turn off. The LEDs on the WCI will return to normal.

**Note:** Verify that the programming is set as desired on the contact closure keypad before returning to the **Mounting** section of the **Installation Instructions** provided with the WCI. Once the WCI and CCI keypad have been mounted, the WCI will no longer be accessible.

# Programming for Standalone Applications

## Configuration Table

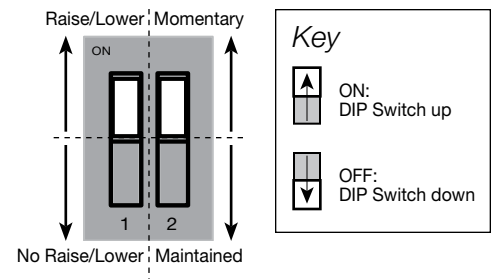
Functionality	DIP Switch		Contact Closure Inputs (CCIs)							
	1	2	Red (Input 1)	Orange (Input 2)	Yellow (Input 3)	Green (Input 4)	Blue (Input 5)	Violet (Input 6)	Gray (Input 7)	White (Input 8)
Scene			Scene 1	Scene 2	Scene 3	Scene 4	Scene 5	Scene 6	Scene 7	Scene 8
			Scene 1	Scene 2	Scene 3	Scene 4	Scene 5	Scene 6	Lower	Raise
			Scene 1	Scene 2	Scene 3	Scene 4	Scene 5	Off	Lower	Raise
			Scene 1	Scene 2	Scene 3	Scene 4	Scene 5	Off	Lower	Raise
Zone			Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Lower	Raise
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Lower	Raise
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Lower	Raise
Shade <sup>1,2</sup>			Open	Preset 1	Preset 2	Preset 3	Preset 4	Preset 5	Preset 6	Close
			Open	Preset 1	Preset 2	Preset 3	Preset 4	Close	Lower	Raise
			Open	Preset 1	Preset 2	Preset 3	Preset 4	Close	Lower	Raise
			Open	Preset 1	Preset 2	Preset 3	Preset 4	Close	Lower	Raise
Shade Toggle <sup>3,4</sup>			Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
			Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Lower	Raise
			Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Lower	Raise
			Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Lower	Raise

<sup>1</sup> For Shade functionality with maintained inputs: Asserting the CCI will send a command as described in the table; unasserting the same CCI will send a 'stop' command to the assigned shades.

<sup>2</sup> For Shade functionality with momentary inputs: If any assigned shade is moving when an input is asserted, all assigned shades will be commanded to stop ('stop-if-moving').

<sup>3</sup> For Shade Toggle with maintained inputs: Each time the third-party switch is in the ON position, it will cycle between Open and Close; the OFF position will result in Stop.

<sup>4</sup> For Shade Toggle with momentary inputs: Each press of the third-party button will cycle through these commands: Open, Stop, Close, Stop.



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