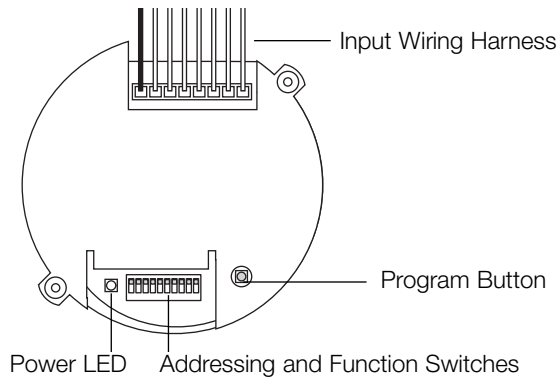


## GRX-WCI Wallbox Closure Input Interface



### Description

- The GRX-WCI mounts behind the user-supplied switch to select or adjust scenes in up to eight Control Units.
- Works with a PELV (Class 2) low-voltage, dry contact switch that meets the power requirements found in the Specifications section of this document.
- Works with GRAFIK Eye 3000 or 4000 Series Control Units.
- The recommended wallbox depth is 61mm. The wallbox depth requirements vary with the depth of the switch in use.
- The GRX-WCI uses one address on the Communication Link.
- The GRX-WCI is not designed to work with line/mains voltage switches.

<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	

## Specifications

### Power

- Low-voltage PELV (Class 2)  
Operating voltage: 12/24 VDC.
- Provides 1-way input interface between GRAFIK Eye 3000/4000 Lighting Control Systems and a switch provided by others.
- If using a mechanical switch, it must be a low-voltage, dry contact closure rated switch.
- If using a solid-state input switch, it must have an on-state saturation voltage less than 1VDC at 1mA and an off-state leakage current of less than 1 mA.
- Use with line/mains voltage switches could result in premature failure of the switch being used.
- If there is any question as to whether a switch is compatible with these specifications, contact the manufacturer of the switch.

### Key Design Features

- Meets IEC 801-2. Tested to withstand 15kV electrostatic discharge without damage or memory loss.

### System Communications and Capacity

- Low-voltage PELV (Class 2) wiring connects Wallstations to Control Units and other components.
- Up to 8 Control Units and up to 16 total Wallstations and/or Control Interfaces may be linked for a total of 24 control points.

### Terminals

Accept up to two 1.0mm<sup>2</sup> (#18 AWG) typical.

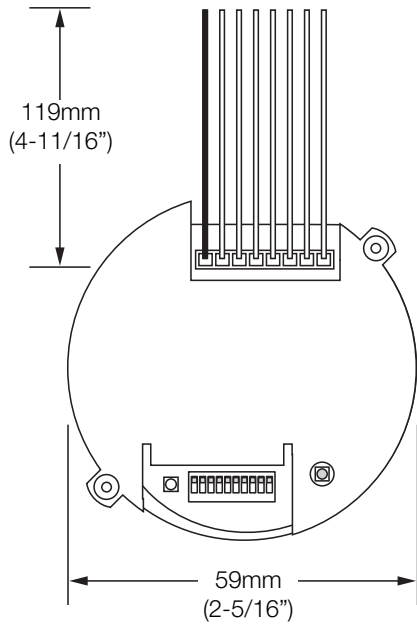
### Environment

0-40°C (32-104°F). Relative humidity less than 90% non-condensing.

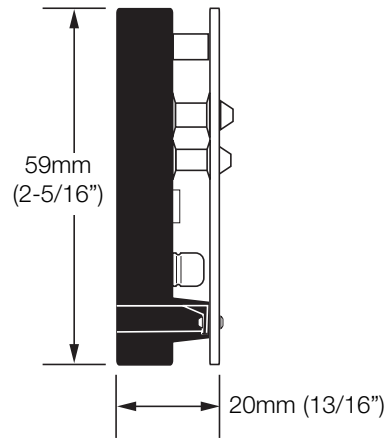
<b>Job Name:</b>	<b>Model Numbers:</b>
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**Dimensions and Mounting**

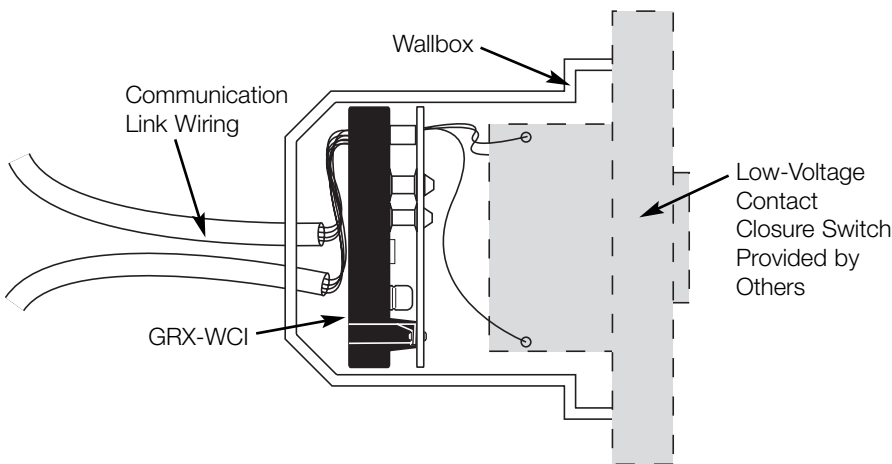
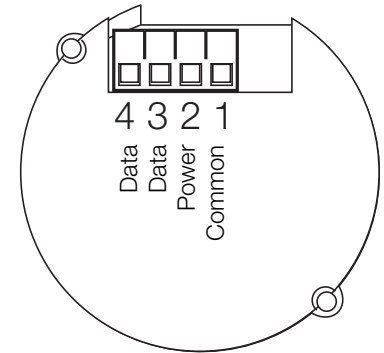
Front View



Side View























Back View


























































<p><b>Job Name:</b></p>	<p><b>Model Numbers:</b></p>
<p><b>Job Number:</b></p>	

## Functionality

FUNCTION Switch Settings									
	5	6	7	8	9 10	Inputs 1-4	Input 5	Input 6	Input 7
4-Scene with Master Raise/Lower						Scenes 1 to 4	Off	Raise	Lower
						Scenes 5 to 8	Off	Raise	Lower
						Scenes 9 to 12	Off	Raise	Lower
						Scenes 13 to 16	Off	Raise	Lower

FUNCTION Switch Settings							
	5	6	7	8	9 10	Input 6	Input 7
2-button Entrance Wallstation Interface*						Selects Scene 1.	Turns lights off.
2-button Scene Selection*						Selects Scene 9.	Selects scene 10.
						Selects Scene 13.	Selects scene 14.
2-button Panic Wallstation*						Selects Scene 16 (full ON). Locks all other system controls from this Control Unit (scene lock).	Restores previous scene. Removes lockout control.
2-button Fine Tuning*						Temporarily brightens selected zone(s).	Temporarily dims selected zone(s).
2-button Zone Lockout*						Allows only temporary adjustments to zones - adjustments will not affect preset scene settings.	Disables zone lockout.
2-button Sequencing*						Starts a sequence, loops continuously through scenes 5 to 16 using fade times entered at Control Units.	Turns sequencing off.
1-button Entrance Control Interface* for Momentary Switch Inputs						Synchronize toggle between Scene 1 and Off on assigned control units.	No action.
						Synchronize control units to Off.	No action.
1-button Occupany Sensor/Entrance Control Interface* for Maintained Inputs (causes event upon closure and opening)						Select Scene 1 when contacts are closed, and Off when contacts are open.	No action.
						Selects Off when contacts are open.	No action.

\* Inputs 1 through 5 are inactive.

<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	

## Installation

### Addressing

- Set Address Switches 1-4 to give the GRX-WCI the unique system address from 1 to 16.
- Set Function Switches to specify function as shown in Functionality chart.

Address	Address Switch Settings				Address	Address Switch Settings			
	1	2	3	4		1	2	3	4
1	☐	☐	☐	☐	9	☐	☐	☐	☐
2	☐	☐	☐	☐	10	☐	☐	☐	☐
3	☐	☐	☐	☐	11	☐	☐	☐	☐
4	☐	☐	☐	☐	12	☐	☐	☐	☐
5	☐	☐	☐	☐	13	☐	☐	☐	☐
6	☐	☐	☐	☐	14	☐	☐	☐	☐
7	☐	☐	☐	☐	15	☐	☐	☐	☐
8	☐	☐	☐	☐	16*	☐	☐	☐	☐

\* Reserved for GRX-PRG, if present on link.

### Low-Voltage PELV (Class 2) Wiring

- Use low-voltage PELV (Class 2) wiring to daisy-chain GRX-WCI to Control Units and other components.
- Lutron recommends that all connections be made in the wallbox.
- If a remote connection (T-tap) must be made, the maximum wire length from the communication link to the connected unit must be 2.5m (8 ft.).

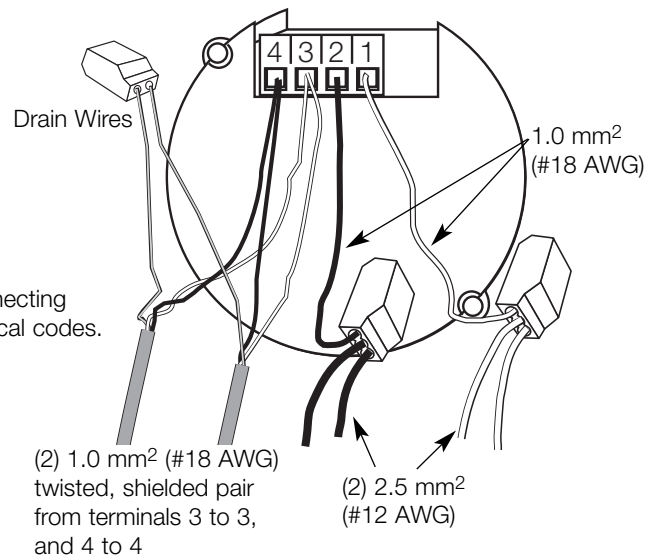
### When used with GRX-3000 Control Units

- Two 1.0mm<sup>2</sup> (#18 AWG) conductors for common (terminal 1) and 12VDC (terminal 2). Ensure that the terminal 2 connection is wired correctly. Refer to GRX-3000 Specification Submittal for more details.
- One shielded, twisted pair 1.0mm<sup>2</sup> (#18 AWG) for data (terminals 3 and 4).

### When used with GRX-4000 Control Units

- Two 2.5mm<sup>2</sup> (#12 AWG) conductors for common (terminal 1) and 24VDC (terminal 2). Connect as shown below.
- One shielded, twisted pair #1.0mm<sup>2</sup> (#18 AWG) for data (terminals 3 and 4).
- Connect Drain as shown.
  - Do not connect to Ground (Earth) or Wallstation.
  - Connect the drain and cut off the outside shield.

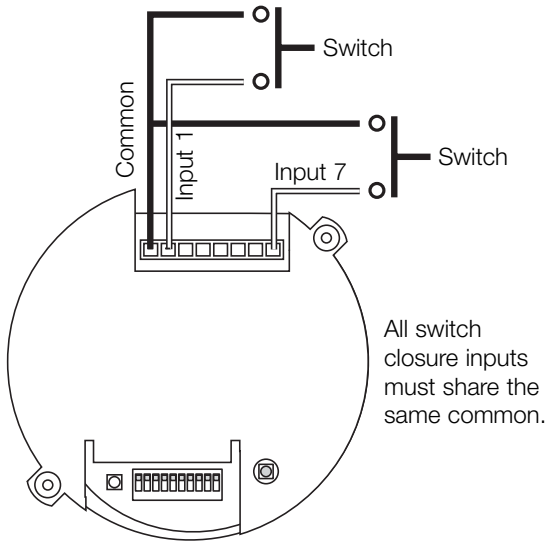
Note: Use appropriate wire connecting devices as specified by local codes.



<b>Job Name:</b>	<b>Model Numbers:</b>
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**Contact Closure Wiring**

- Connect the desired input(s) and common wire(s) to the switch(es) provided by others.
- Ensure proper function then cap or cut off unused input wires.



<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	