

## ELVI Electronic Low-Voltage Interface



### Description

- Provides capability for GRAFIK Eye 3000 Series Control Units and LP Dimming Panels to dim electronic transformer-supplied low-voltage lighting.
- Provides power and dimming for one zone.
- Models available for 120V, 220-240V (non-CE), 230V (CE) or 100V input power.

### Works with:

- GRAFIK Eye 3000 Series Control Units
- LP Dimming Panels
- HomeWorks Remote Power Panels
- Neutral-referenced fluorescent wallbox dimmers by Lutron.

### Models and Capacities

Input Power	Capacity	Model Number
120V	1000W/VA	ELVI-1000
220-240V (non-CE)	1200W/VA	NGRX-ELVI-AU-WH
230V (CE)	1200W/VA	NGRX-ELVI-CE-WH
100V	1000W/VA	NGRX-ELVI-JA-WH

Two ELVI Interfaces may be used on a zone to double the capacity.

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

## Specifications

### Power

- Input power: 120V, 220-240V (non-CE), 230V (CE), or 100V. All voltages 50/60 Hz, phase-to-neutral.
- Load (output) power: Phase independent of Control Unit.

### Sources/Load Types

- Operates electronic low-voltage lighting with a smooth continuous Square Law dimming curve or on a full conduction non-dim basis.
  - Does not affect sound rating of electronic transformers.
  - Does not cause lights to flicker or interact anywhere in dimming range.
  - Dims to 0% (blackout).
- Works only with electronic (solid-state) low-voltage transformers that are manufacturer-approved for reverse-phase control dimming.
- Incandescent and electronic low-voltage sources may be controlled on the same zone. Up to 30% of the ELVI capacity may be used for incandescent lighting.

### Key Design Features

Patented RTISS™ circuitry compensates in real time for incoming line voltage variations: No visible flicker with +/-2% change in RMS voltage/cycle and +/- 2% Hz change in frequency/second.

### Terminals

Accept up to two #12 AWG (2.5mm<sup>2</sup>).

### Environment

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

### Mounting

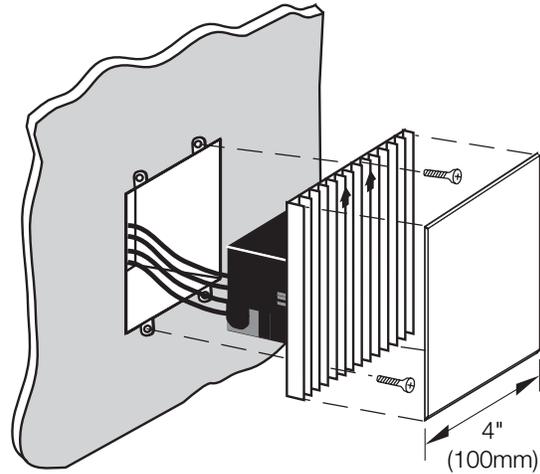
Surface or recess mount indoors only.

<b>Job Name:</b>	<b>Model Numbers:</b>
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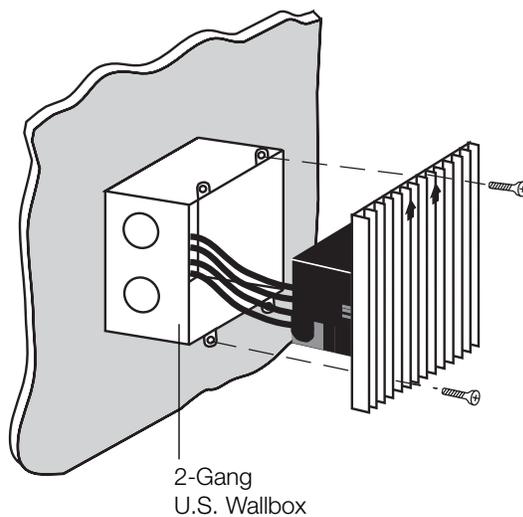
## Dimensions And Mounting

- Recess or surface mount in 2-gang U.S. wallbox 3.5" (89mm) deep. Indoors only.
- ELVI Interface generates heat; mount only where ambient temperature is 32-104°F (0-40°C).
- Mount with arrows facing up to ensure adequate cooling.
- Allow 4.5" (114mm) above and below unit and between faceplates when mounting several in a vertical layout.
- For better heat dissipation, surface mount without faceplate.
- Mount so line (mains) voltage wiring is at least 6 feet (1.8m) from sound or electronic equipment and wiring.
- Mount Interface within 7° of true vertical.

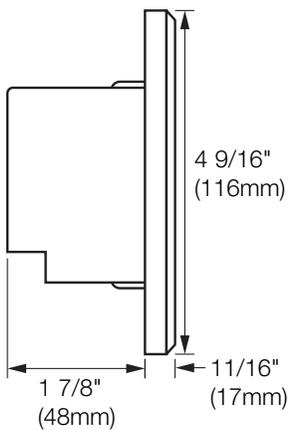
Recess Mount with Faceplate



Surface Mount without Faceplate



Side View



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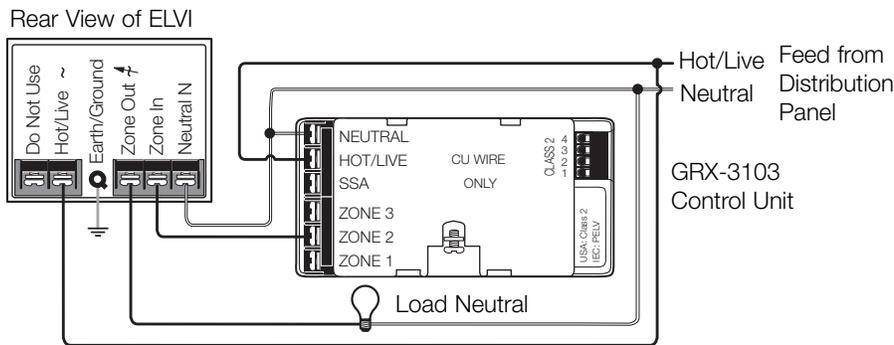
## Wiring

- Pull #12 AWG (2.5mm<sup>2</sup>) Copper (Cu) wires (75°C minimum) for input power and load circuit.
- Strip 1/2" (12mm) insulation from wires before connecting.
- Run separate neutral for load circuit - no common neutrals. Neutral (N) terminal is for Control Unit, not the load neutral.

### Single Power Feed

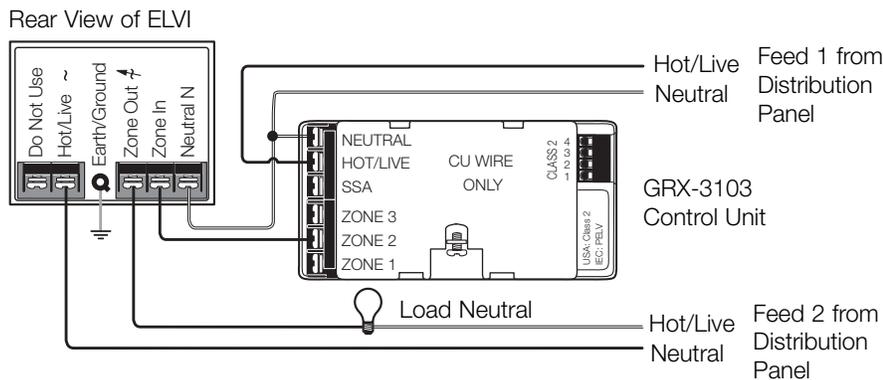


The ELVI Interface may be on the same circuit as the Control Unit only if the total load does not exceed the rating of the breaker.



### Multiple Power Feeds

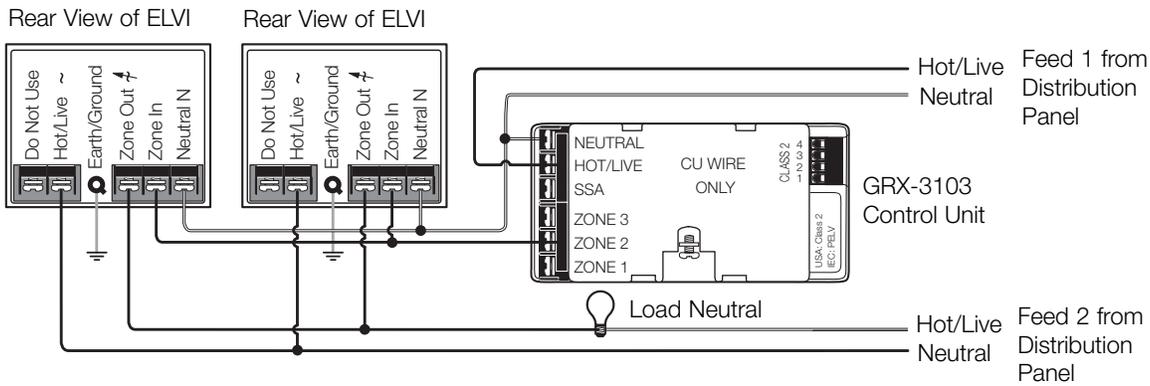
The load breaker/MCB may be on a different phase than the control breaker/MCB.



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<b>Job Number:</b>	

## Wiring

### Two ELVI Interfaces on a Zone



### With Other Lutron Lighting Controls

To wire an ELVI Interface to a fluorescent dimmer:

- Run a Neutral wire from the control equipment to Neutral N on the ELVI.
- Run a dimmed hot wire from the control equipment to Zone In on the ELVI.

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