

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 120 V~, 220-240 V~ (non-CE), 230 V~ (CE), or 100 V~ input power.

Works with:

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

Models and Capacities

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

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

Job Name:	Model Numbers:
Job Number:	

Specifications

Power

- Input power: 120 V \sim , 220-240 V \sim (non-CE), 230 V \sim (CE), or 100 V \sim . 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 (2.5 mm²).

Environment

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

Mounting

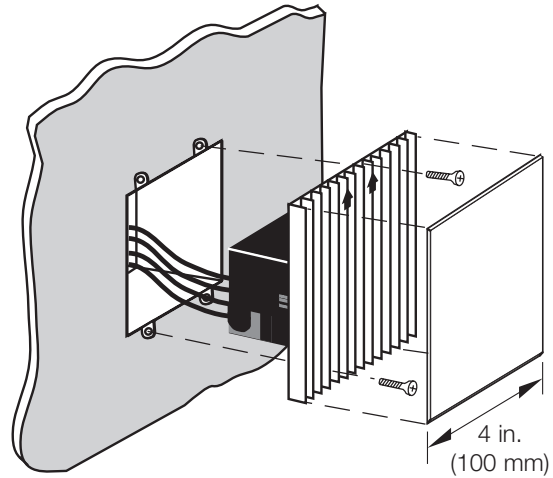
Surface or recess mount indoors only.

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

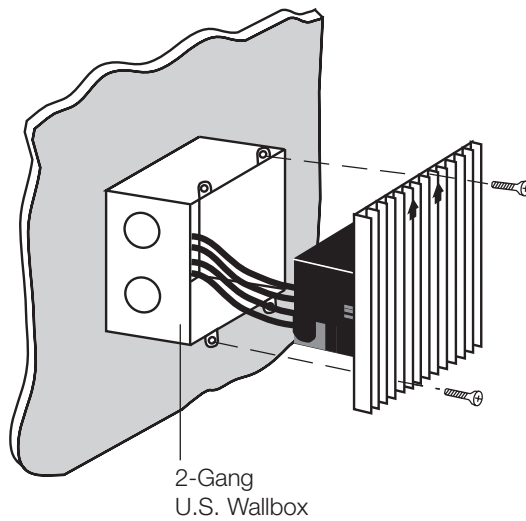
Dimensions And Mounting

- Recess or surface mount in 2-gang U.S. wallbox 3.5 in. (89 mm) 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 in. (114 mm) above and below unit and between faceplates when mounting several in a vertical layout.
- For better heat dissipation, surface mount without faceplate.
- Mount so (mains) voltage wiring is at least 6 feet (1.8 m) from sound or electronic equipment and wiring.
- Mount Interface within 7° of true vertical.

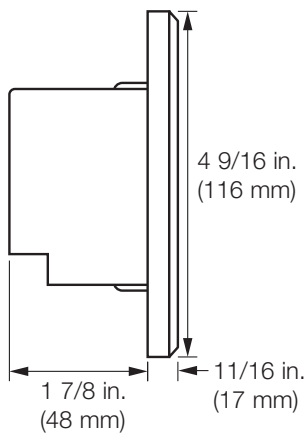
Recess Mount with Faceplate



Surface Mount without Faceplate



Side View



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

Wiring

- Pull #12 AWG (2.5 mm²) Copper (Cu) wires (75 °C minimum) for input power and load circuit.
- Strip 1/2 in. (12 mm) 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.

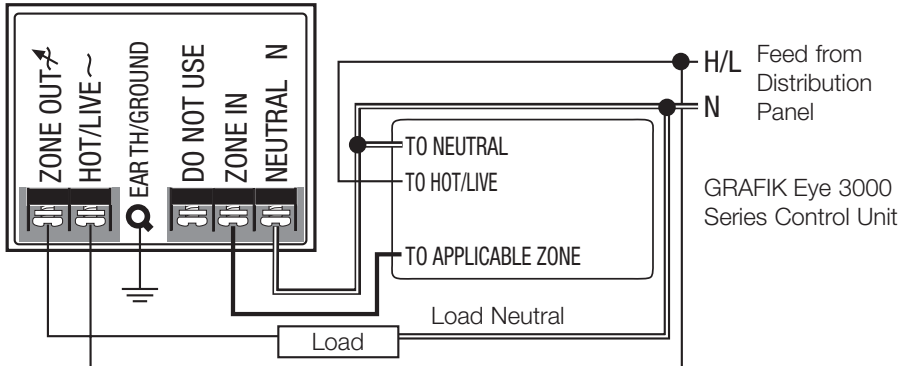
Single Power Feed



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.

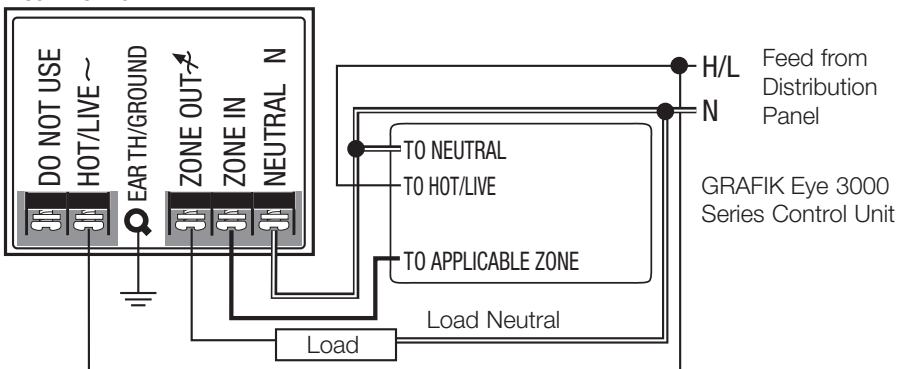
Single-Feed Wiring for NGRX-ELVI 100 V_~, 120 V_~, and 220-240 V_~

Rear View of ELVI



Single-Feed Wiring for NGRX-ELVI-CE (230 V_~)

Rear View of ELVI



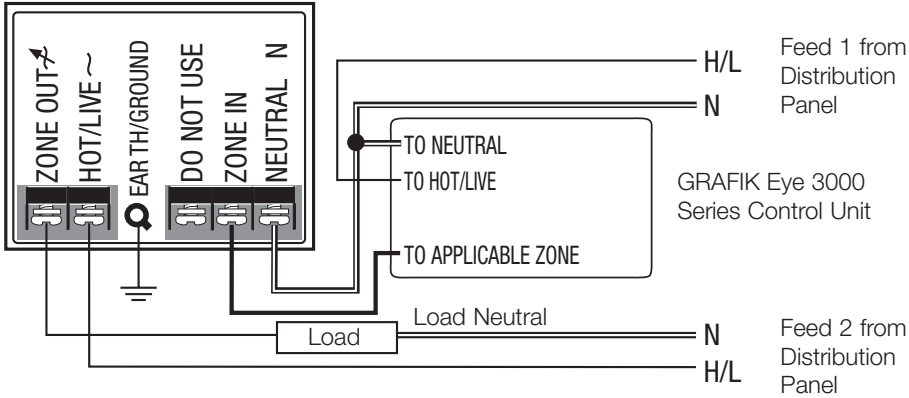
Job Name:	Model Numbers:
Job Number:	

Wiring - Multiple Power Feeds

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

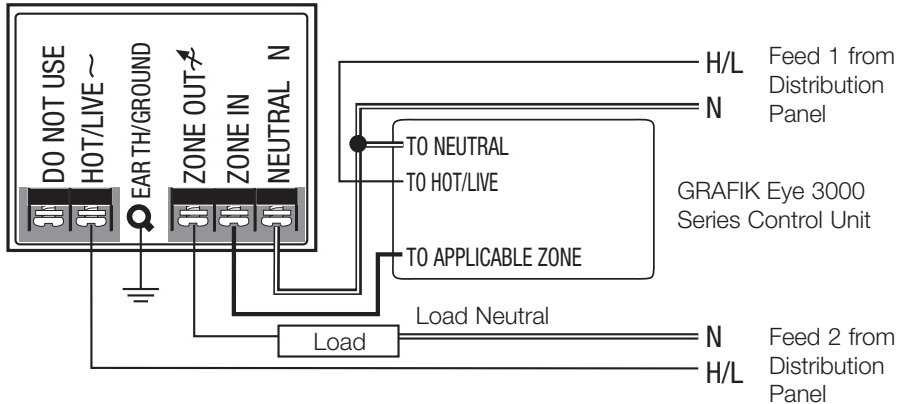
Dual-Feed Wiring for NGRX-ELVI 100 V \sim , 120 V \sim , and 220-240 V \sim

Rear View of ELVI



Dual-Feed Wiring for NGRX-ELVI-CE (230 V \sim)

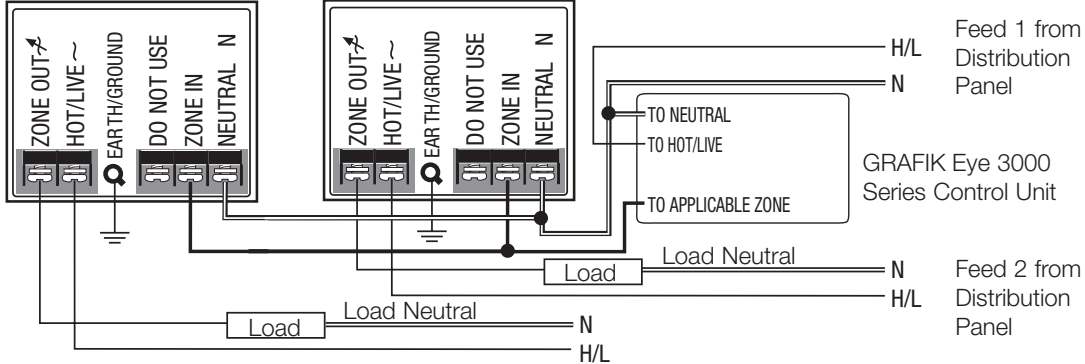
Rear View of ELVI



Two ELVI Interfaces on a Zone (120 V \sim and 220-240 V \sim Example)

Rear View of ELVI

Rear View of ELVI



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