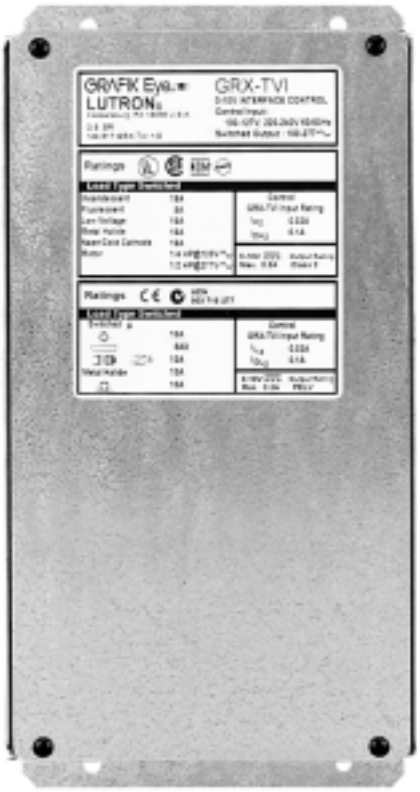
GRX-TVI Ten Volt Interface



DESCRIPTION

- Lets a Control Unit switch and dim fluorescent lights that have Lutron Eco-10™ (TVE Series) Electronic Dimming Ballasts.
- Switches and dims any 0-10V electronic fluorescent dimming ballast powered by 100-277V (ballast must source/provide 10V supply). Switches up to 10A of electronic capacitive fluorescent ballasts.
- Also switches motors – 1/4HP @ 100-127V, 1/2HP @ 200-277V.
- Lets you connect up to five Ten Volt Interfaces to one Control Unit zone. This allows one zone to control up to five 16A circuits of Eco-10™ (TVE Series) Electronic Dimming Ballasts or five motors.
- Provides 100-277V power to loads.
- Requires 100-127V or 200-240V power for internal operations.

SPECIFICATIONS

Power

- Load (output) power: 100-277V. Phase independent of lighting control.
- Control circuit: 40W/VA @ 100-127V or 200-240V, 50/60Hz, same phase as lighting control. Provides power for internal operations.

0-10V Dimming Control

Output rating: 10µA-300mA.
Sinks current only
(ballast must source/provide 10V supply).

Switching Load Types and Capacities

Can switch 100-277V.

Source/Load Type	100-127V 200-277V	230V (CE)
Fluorescent		
• Lutron Eco-10™ (TVE Series)	16A[1]	—
• Electronic Capacitive Non-Dim	16A	10A
Incandescent	16A	10A
Low-Voltage	16A	10A
Metal Halide	16A	10A
Neon/Cold Cathode	16A	10A
Motors	1/4HP @ 100-120V 1/2HP @ 200-277V	

[1] 10A maximum for 230V (CE) applications

Zone Capacity

Up to five Ten Volt Interfaces per Control Unit zone.

Key Design Features

- Complies with standard UL 508.
- Provides a Class 2 isolated 0-10V output signal that conforms to EN60929 and IEC929.
- Accepts a constant-gate drive fluorescent signal (100-127V or 200-240V; 50/60Hz).

Terminals

Up to two #12 AWG (2.5mm^2) conductors.

Physical Design

- Wall-mounted. Indoor use only. Type 1 enclosure.
- Weight: 4.25 pounds (2kg).

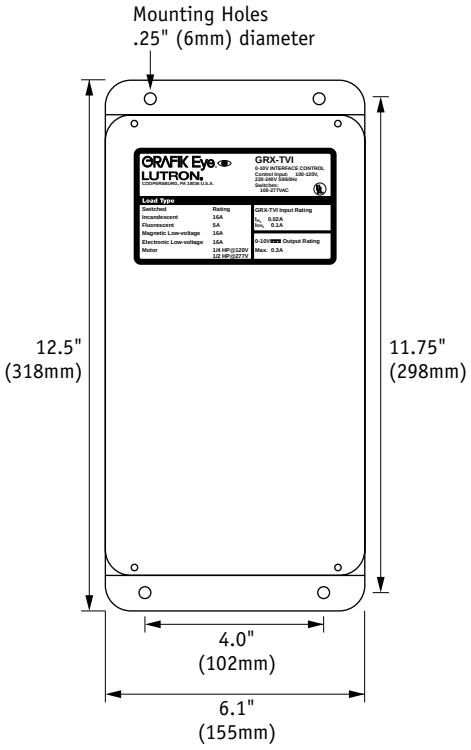
Environment

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

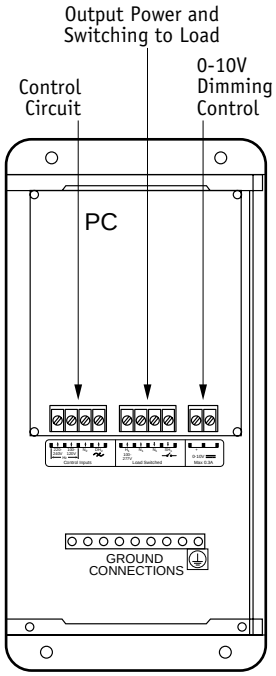
DIMENSIONS AND MOUNTING

- Mount only where ambient temperature is 32-104°F (0-40°C), relative humidity less than 90% (non-condensing). Allow 4.5" (114mm) between Interfaces when mounting several in a vertical layout.
- 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.

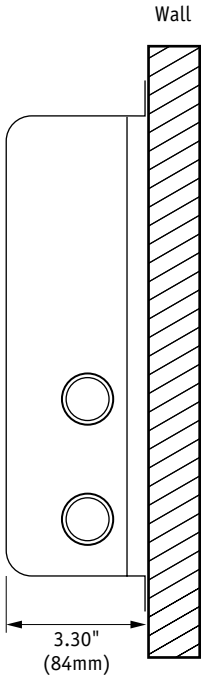
FRONT VIEW



COVER OPEN



SIDE VIEW



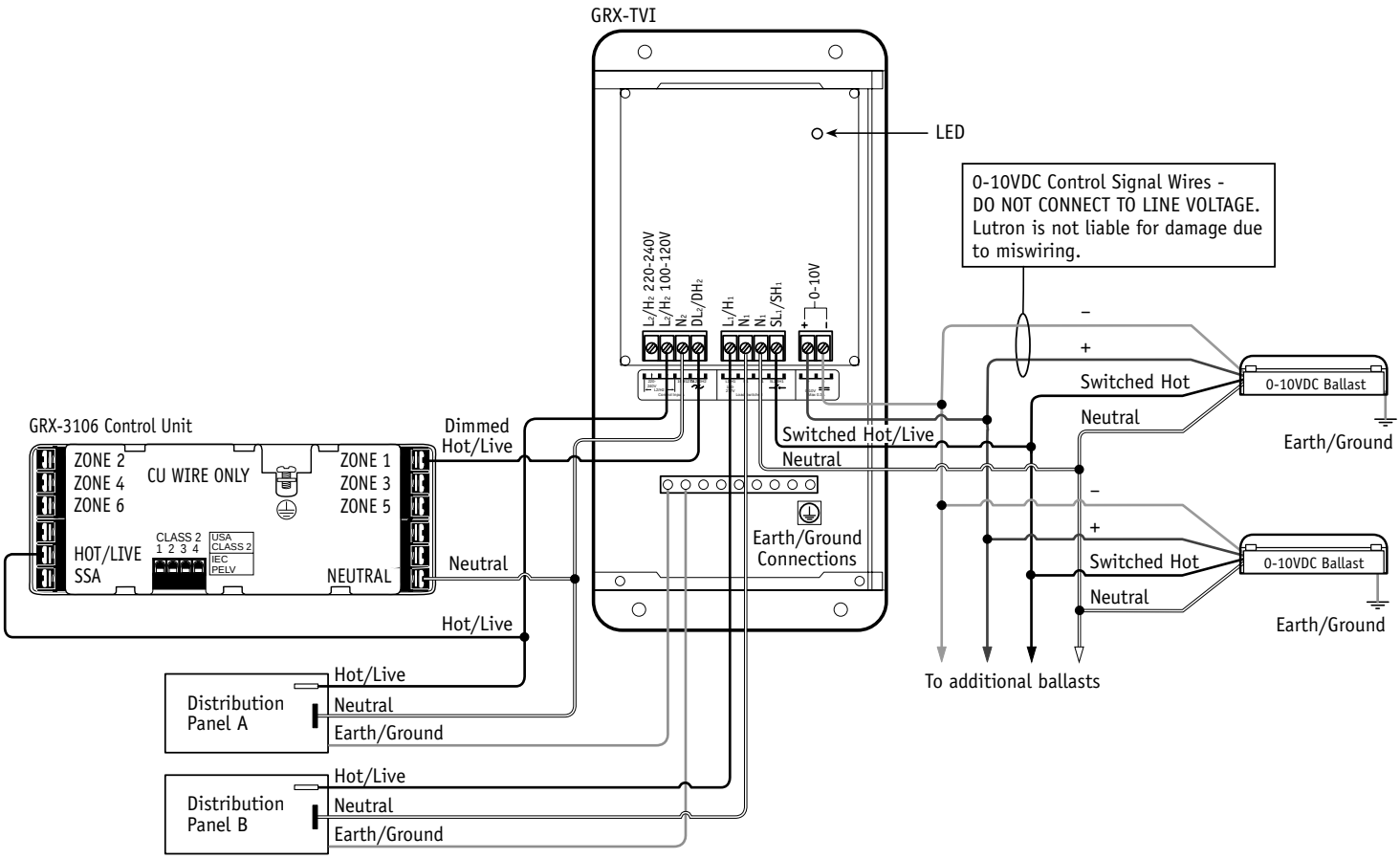
JOB NAME:	MODEL NUMBERS:	
JOB NUMBER:		

WIRING

- Each terminal can accept up to two #12 AWG (2.5mm²) conductors.
- L1/H1 is the Live/Hot feed to power the load.
- L2/H2 (on the control circuit terminals) supplies operating power for the Ten Volt Interface.
- Choose the correct L2/H2 terminal for your operating power.
  - Leave one terminal empty — don't use both.
  - Do not connect 277V to either L2/H2 terminal.
  - Make sure L2/H2 is on the same phase as DL2/DH2 (Dimmed Live/Dimmed Hot) from the lighting control.

WIRING FROM TWO DISTRIBUTION PANELS OR CIRCUIT BREAKERS

- Panels can have different phases and/or voltages.
- Run separate neutrals for load circuit. No common neutrals.



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WIRING FROM ONE CIRCUIT BREAKER OR OUTPUT (100-240V ONLY)

- Each terminal can accept up to two #12 AWG (2.5mm²) conductors.
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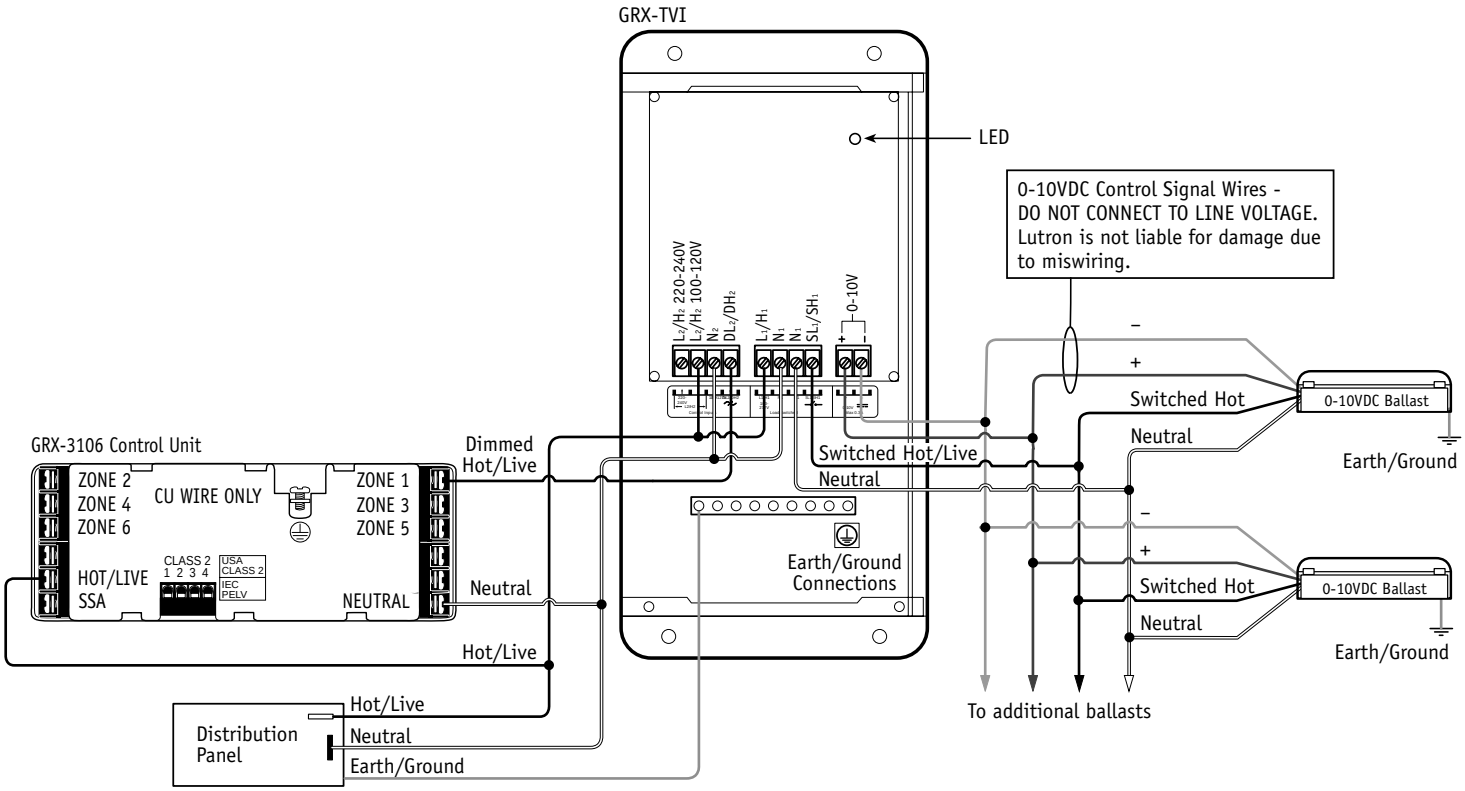
- L2/H2 (on the control circuit terminals) supplies operating power for the Ten Volt Interface.
- Choose the correct L2/H2 terminal for your operating power.
  - Leave one terminal empty — don't use both.
  - Do not connect 277V to either L2/H2 terminal.
  - Make sure L2/H2 is on the same phase as DL2/DH2 (Dimmed Live/Dimmed Hot) from the lighting control.

WIRING FROM ONE DISTRIBUTION PANEL OR CIRCUIT BREAKER

- Run separate neutrals for load circuit. No common neutrals.



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