

GRX-CI-NWK-E Control Interface




Description

- Integrates a *GRAFIK Eye* Lighting & Shade Control System with a touchscreen, PC, or other digital equipment that supports TCP/IP communication over Ethernet.
- TCP/IP provides fast reliable two-way communication.
- Provides monitoring commands that allow a touchscreen or PC to query *GRAFIK Eye* Control Units to:
 - Determine which scene is selected.
 - Read individual zone's intensity.
 - Keep track of buttons pressed.
- Provides control commands that allow a touchscreen or PC to operate *GRAFIK Eye* Control Units to:
 - Select or sequence lighting scenes.
 - Raise or Lower one or more zones.
 - Lock *GRAFIK Eye* Control Units.
 - Set Zone Intensity on *GRAFIK Eye* 3500 or 4500 Series Control Units, which allows users to set intensities on zones of light and to raise and lower an individual shade zone (*Sivoia QED™* shades also allow the selection of individual shade zone presets).
- Functionality is set using DIP switches.
- May be programmed to control any combination of one to eight *GRAFIK Eye* 3000 or 4000 Series Control Units.

Job Name:	Model Numbers:
Job Number:	

Specifications

Power

Low-voltage PELV (Class 2: USA).
 Operating Voltage: 12-24 V .

Uses RS232 Command Set for *Grafik Eye* 3000/4000

Monitoring: Scene selection, scene status updates, read zone intensity.
 Control: Scene selection, scene lockout, sequencing, zone lockout, zone raise/lower.
 Additional control with *GRAFIK Eye* 3500 or 4500 Series Control Units: Set zone intensity.



System Communications and Capacity

- Low-voltage PELV (Class 2: USA) wiring connects the Control Interface to *GRAFIK Eye* Control Units.
- Standard CAT5 cable, 100 m (328 feet) maximum, connects GRX-CI-NWK-E Interface to PC or other Ethernet source.
- Supports MDI/MDIX auto-crossover (no crossover cable needed).
- Auto-negotiation of 10 or 100Mbps speed and full- or half-duplex operation.
- Multiple Control Interfaces may be used in a single system.

Environment

32-122°F (0-50°C). Relative humidity less than 90% non-condensing.

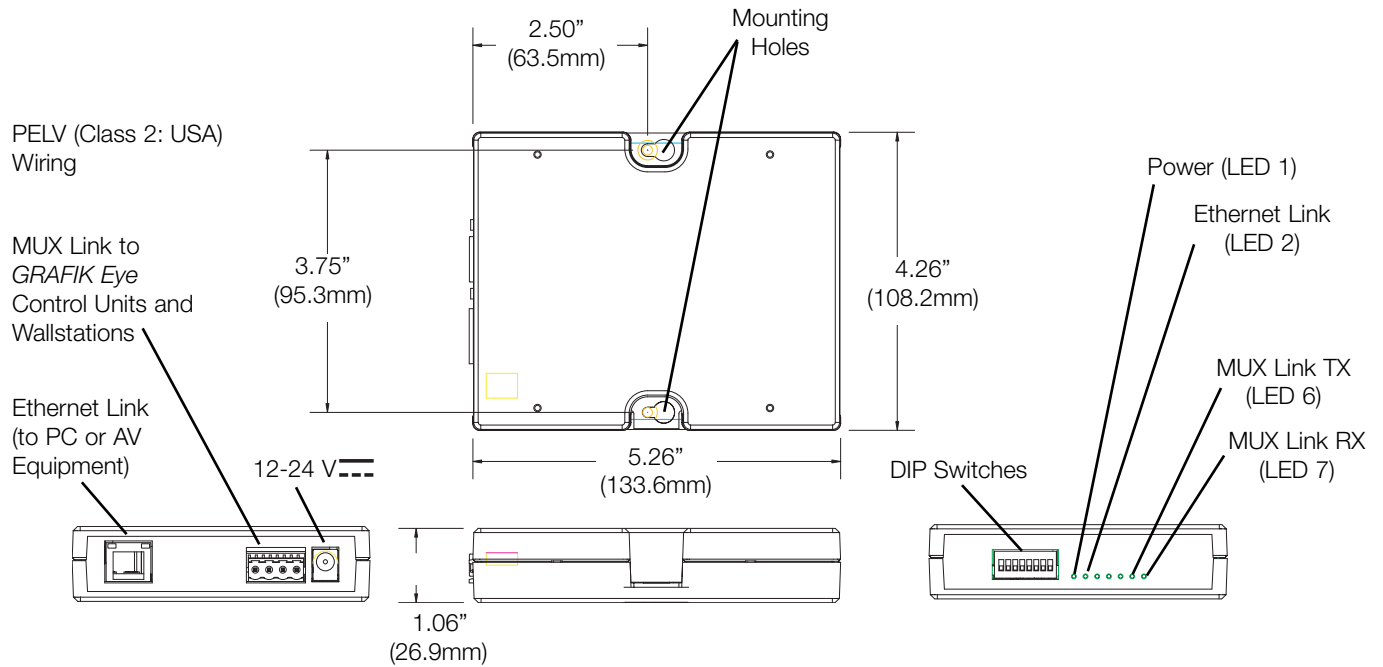
Functions

DIP Switch	Function	When set to ON 	When set to OFF 
1	Zone Lock Retain	If power goes out, locked zones stay locked when power returns.	Power cycling unlocks locked zones.
2	Scene Lock Retain	If power goes out, locked scenes stay locked when power returns.	Power cycling unlocks locked scenes.
3	Sequence Retain	If power goes out, sequencing resumes when power returns.	Power cycling stops sequencing.
4	Sequencing Scene Range	Sequencing loops through scenes 5 to 16.	Sequencing loops through scenes 1 to 4.
5	Multiple Addresses ¹	DIP Switches 1-4 used to set address, not function.	DIP Switches 1-4 operate as specified above.
6	Button Feedback	Interface reports Control Unit and Wallstation button presses.	No reporting of button presses.
7	Scene Status	Interface reports scene changes.	No reporting of scene changes.
8	Not Used		

¹ Only for projects with more than one Control Interface that use RS232 or Ethernet communications (GRX-PRG, GRX-CI-RS232, or GRX-CI-NWK-E). One Interface in the project automatically assumes address 16 – DIP switches do not need to be set to give it an address. (If a GRX-PRG is present, it must assume address 16.) Every other RS232 or Ethernet Interface in the project must have a unique address: set DIP switch 5 to on and then use DIP switches 1-4 to assign a unique address.

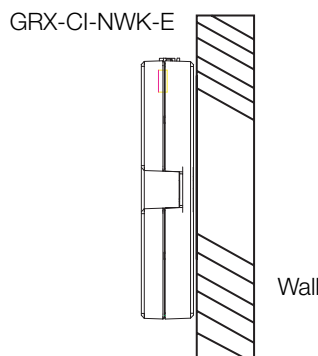
Job Name:	Model Numbers:
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Dimensions



Mounting

- Mounts directly to the wall.
- 19" AV rack mountable with 1U rack shelf from Lutron Model # LUT-19AV-1U.
- For conduit wiring options, contact Lutron customer service.



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Ethernet Link Wiring

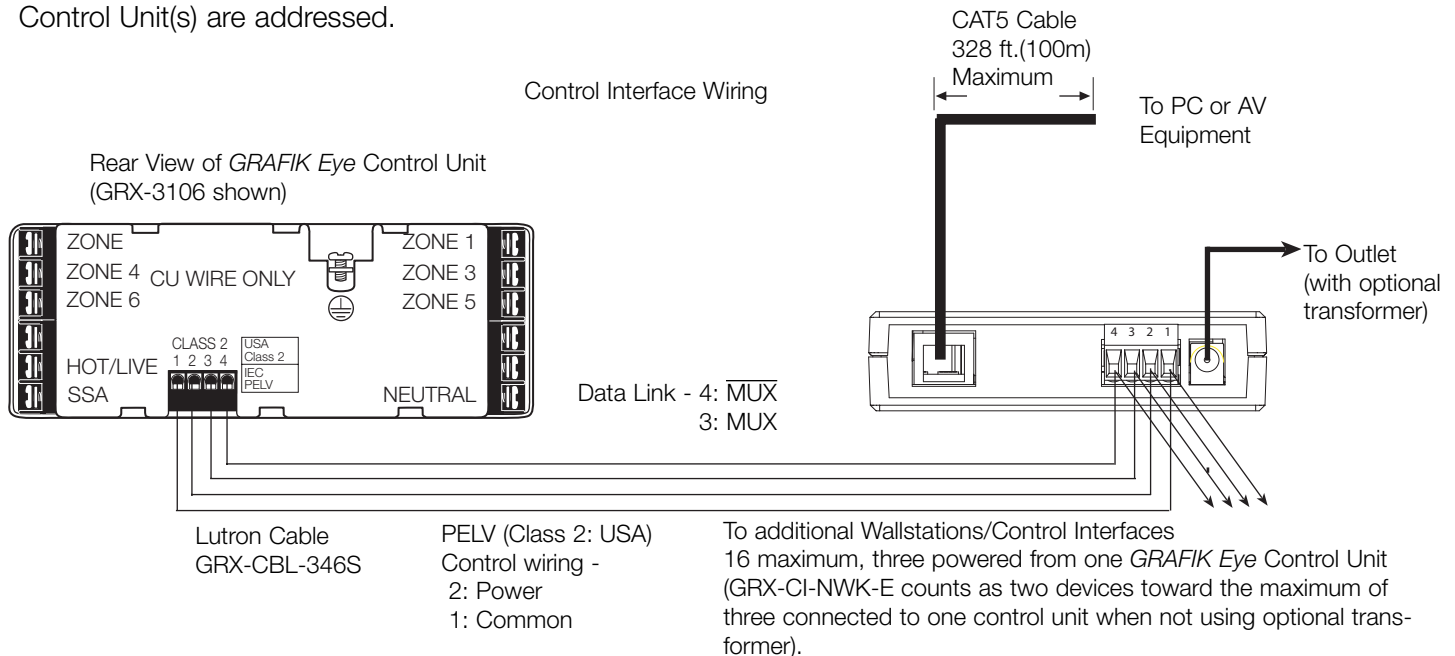
- Standard CAT5 cable connects GRX-CI-NWK-E Interface to PC, router, or other Ethernet source.
- No crossover cable needed.
- Must be 100 m (328 feet) or less.
- Ethernet network and cable provided by others.

Power Options

- Power for one GRX-CI-NWK-E counts as two devices toward the maximum of three devices per *GRAFIK Eye* Control Unit when powered off of Pin 2 of the MUX Link.
- To Power separately from the MUX Link order the following transformer model numbers.
 - 120 V: T120-15DC-9-BL
 - 240 V: TE240-15DC-9-BL
 - 240 V (UK): TU240-15DC-9-BL
- Do not connect Pin 2 of the MUX Link to the GRX-CI-NWK-E when using optional transformer.

Low-Voltage PELV (Class 2: USA) Wiring

- Make daisy-chain connections to the low-voltage PELV (Class 2: USA) MUX Link terminals on the back of the Control Interface.
- Do not use T-taps. Run all wires in and out of terminal block.
- Each terminal accepts up to two #18 AWG (1.0 mm²) wires.
- LED lights (power) and LED 7 blinks rapidly (MUX Link RX) when the PELV (Class 2: USA) MUX Link is installed correctly and *GRAFIK Eye* Control Unit(s) are addressed.



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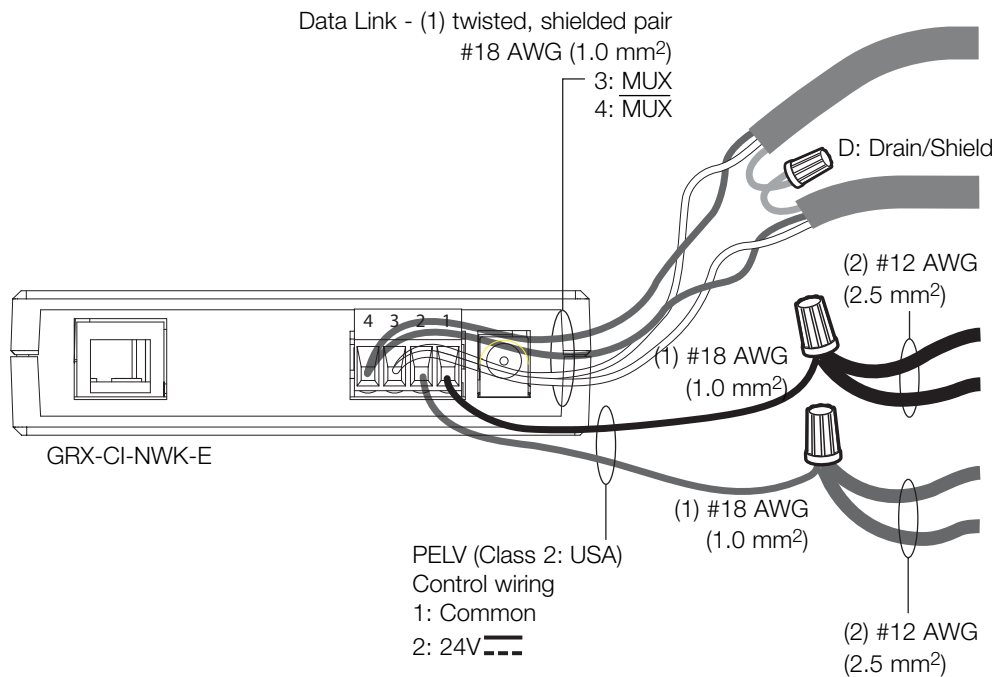
PELV (Class 2: USA) Terminal Connections

When used with GRX-3000 Control Units

- Two #18 AWG (1.0 mm²) conductors for Common (terminal 1) and 12 V_{DC} (terminal 2). Ensure that the terminal 2 connection is wired when not using optional transformer. Refer to GRX-3000 Specification Submittal for more details.
- One shielded, twisted pair #18 AWG (1.0 mm²) for data link (terminals 3 and 4).

When used with GRX-4000 Control Units (See Wiring Diagram Below)

- Two #12 AWG (2.5mm²) conductors for Common (terminal 1) and 24 V_{DC} (terminal 2). These will not fit in terminals. Connect as shown.
- One shielded, twisted pair #18 AWG (1.0 mm²) for data link (terminals 3 and 4).
- Connect Drain/Shield as shown. Do not connect to Ground (Earth) or Wallstation/Control Interfaces. Connect the bare drain wires and cut off the outside shield.



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