

GRX-PRG Programming Control Interface



Description

- Integrates a GRAFIK Eye Lighting Control System with a PC or other digital equipment that supports RS232 communication.
- Provides a basic RS232 command set that allows a PC to monitor and control lighting.
- Built-in Astronomic Timeclock provides ability to schedule lighting events. Example: lobby lights turn on to scene 1 at 7:30 a.m. or 10 minutes after sunrise.
- Enables use of a PC to set up GRX-3500 and GRX-4500 Control Units.
- Comes with easy-to-use, “point-and-click” Windows®-compatible LIAISON™ software for scheduling the Astronomic Timeclock and using the Programmer Interface.
- Functionality is selected using DIP switches.
- Operates with or without a PC connected.
- May be programmed to control any combination of one to eight GRAFIK Eye 3000 or 4000 Series Control Units.
- GRX-3100 and GRX-4100 Control Units may utilize the Astronomic Timeclock function of the GRX-PRG.
- GRX-3500 and GRX-4500 Control Units may utilize all functions of the GRX-PRG.

Windows® is a registered trademark of Microsoft Corporation.

Job Name:	Model Numbers:
Job Number:	

Specifications

Power

Low-voltage Class 2 (PELV)
Operating Voltage: 12/24 V Direct Current.

Basic RS232 Command Set

- Monitoring: Scene selection and scene status updates.
- Control: Scene selection, scene lockout, sequencing, zone lockout, zone raise/lower.

Astronomic Timeclock

- Allows lighting changes to occur automatically based on time of day and/or day of week/month, as well as relative to sunrise and sunset.
- Supports four schedules with 60 lighting events per schedule and one Super Sequence.
- Allows user to start, pause, and stop schedules from a PC, a Wallstation, or by a DIP switch on the Interface.
- Provides commands to set and monitor the Timeclock's time, date, and day of week, and report sunrise and sunset.

Programmer Interface

Permits complete set up of the following on GRX-3500 or GRX-4500 Control Units via an IBM™-compatible PC:

- Scenes, including light levels in 1% increments and fade times.
- Load type settings.
- Tamper-proof protection of scenes.
- Assignment of communication between Control Units and Wallstations.
- Dimmer Panel zone and load assignment

Allows an IBM-compatible PC to query GRX-3500 and GRX-4500 Control Units for their setup, including type of Control Unit and number of zones.

LIAISON™ Software

- Allows use of a PC to create timeclock schedules for all GRX-3000 and GRX-4000 Control Units.
- Allows use of a PC to create setups for GRX-3500 and GRX-4500 Control Units.
- Provides downloading of schedules and setups to GRX-PRG Interface and Control Units.
- Works on any PC operating with Windows® 3.1 or higher.
- Supplied by Lutron. Updates are available online at www.lutron.com

System Communications and Capacity



- Low-voltage type Class 2 (PELV) wiring connects GRX-PRG Interface to Control Units and other components.
- One GRX-PRG Interface per GRAFIK Eye 3000 or 4000 system. Automatically occupies wallstation address 16.
- 50 feet (15m) maximum from GRX-PRG Interface to PC or other RS232 source.

Environment

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

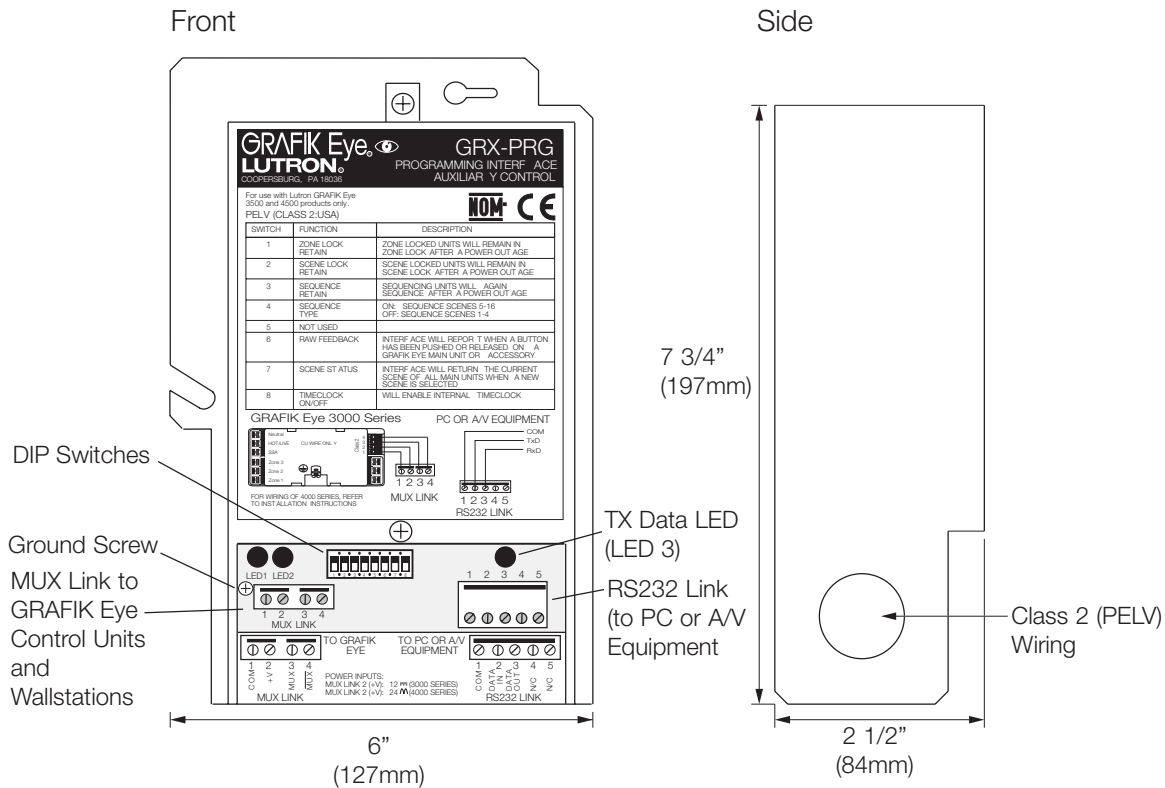
Job Name:	Model Numbers:
Job Number:	

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	Not Used		
6	Button Feedback	Interface reports Control Unit and Wallstation button presses.	No reporting on button presses.
7	Scene Status	Interface reports scene changes.	No reporting on scene changes.
8	Astronomic Timeclock Schedules	Enables internal Timeclock.	Disables internal Timeclock.

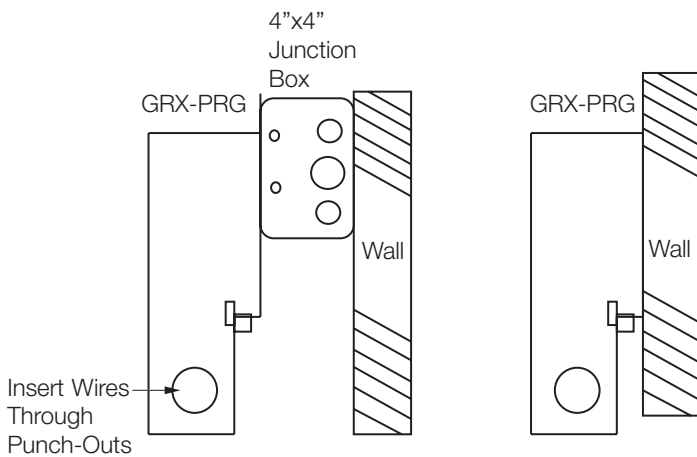
Job Name:	Model Numbers:
Job Number:	

Dimensions



Mounting

- Mount on a 4" (10.2mm) square junction box.
- May also mount directly to the wall.
- Ensure that the metal casing is properly grounded. Connect a ground wire to the ground screw.



Job Name:	Model Numbers:
Job Number:	

RS232 Link Wiring

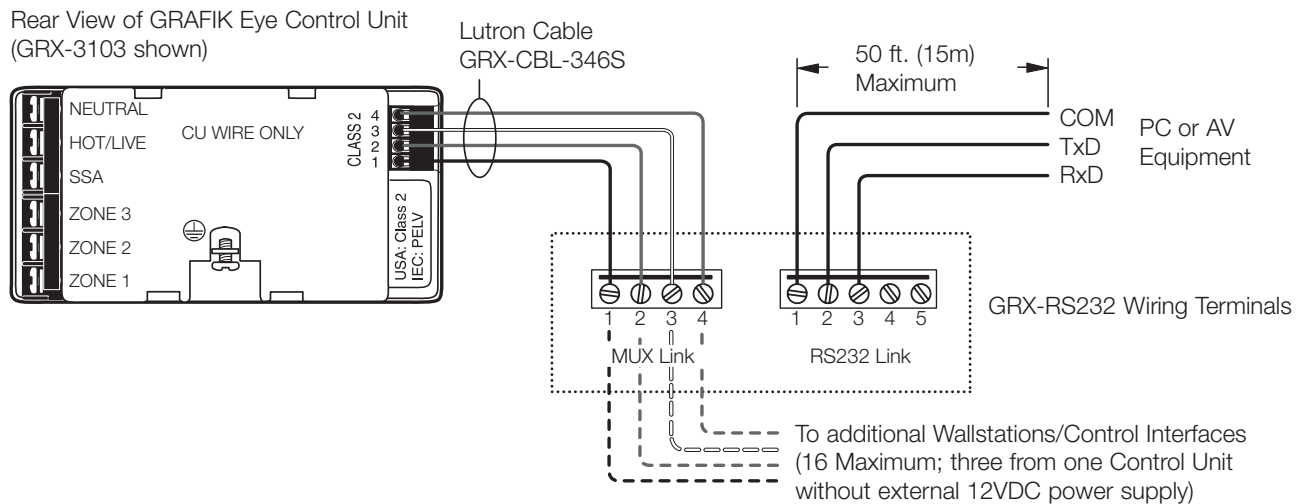
- Use cable provided.
- Standard 9-pin serial connector plugs into RS232 equipment, other end connects to RS232 Link terminals.
- Must be 50 feet (15m) or less.

RS232 Signals

GRX-PRG RS232 Link Terminal	Signal	Typical PC or A/V Equipment	Pin on 9-pin Cable
1	Common	Com	5
2	Data In	TxD	3
3	Data Out	RxD	2
4	No Connect		
5	No Connect		

Low-Voltage Class 2 (PELV) Wiring

- Make daisy-chain connections to the low-voltage Class 2 (PELV) MUX Link terminals on the front of GRX-PRG Interface.
- Do not use T-taps. Run all wires in and out of terminal block.
- Each terminal accepts up to two #18 AWG (1.0mm²) wires.
- LED 1 lights when the Class 2 (PELV) MUX link is installed correctly.



Job Name:	Model Numbers:
Job Number:	

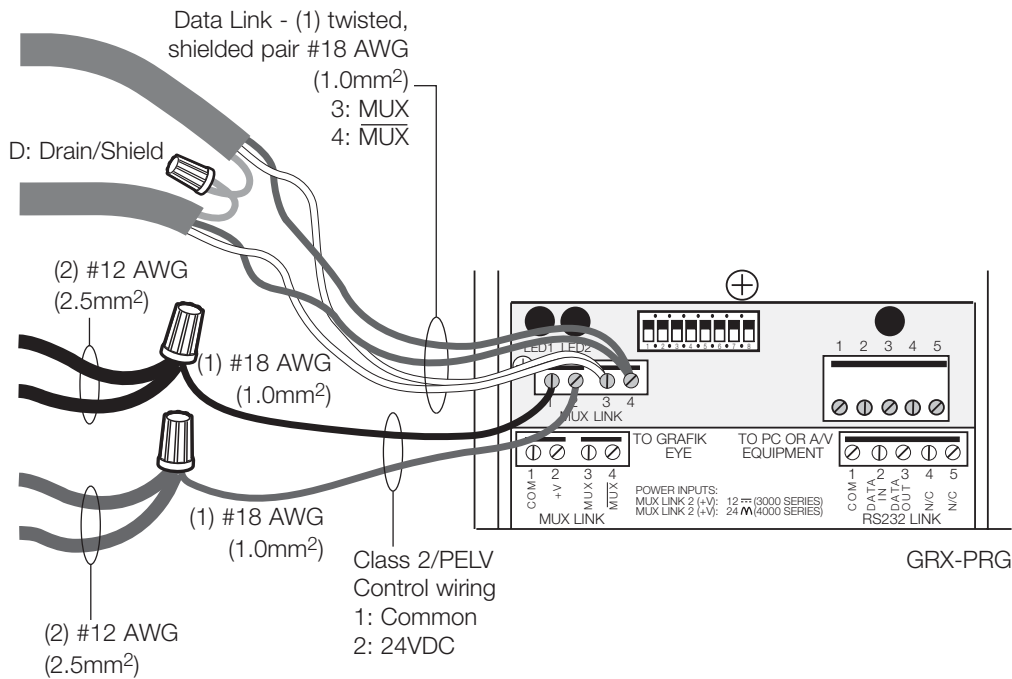
Class 2 (PELV) Terminal Connections

When used with GRX-3000 Control Units

- Two #18 AWG (1.0mm²) 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 #18 AWG (1.0mm²) for data link (terminals 3 and 4).

When used with GRX-4000 Control Units

- Two #12 AWG (2.5mm²) conductors for common (terminal 1) and 24VDC (terminal 2). These will not fit in terminals. Connect as shown.
- One shielded, twisted pair #18 AWG (1.0mm²) 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.



Job Name:	Model Numbers:
Job Number:	