GXI-3000 Control Unit

Description

- Provides pushbutton recall of four preset lighting scenes, plus Off.
- Allows setup of lighting scenes using buttons on the Control Unit.
- Controls virtually any light source (LED, incandescant, etc.) without an interface.
- Provides lockout options to prevent accidental changes.
- Includes built-in infrared receiver for operation with an optional remote control.

Models available to:

- Accept 230 V∼ (CE) input power.
- Control four zones of lighting.

    GXI-3100 Control Unit allows setup of lighting scenes using buttons on the Control Unit.
    GXI-3500 Control Unit allows setup of lighting scenes using a PC, including setting lighting levels in 1% increments.

Cover (shown open)

Base   Zone   Infrared Receiver   Scene Selection Buttons
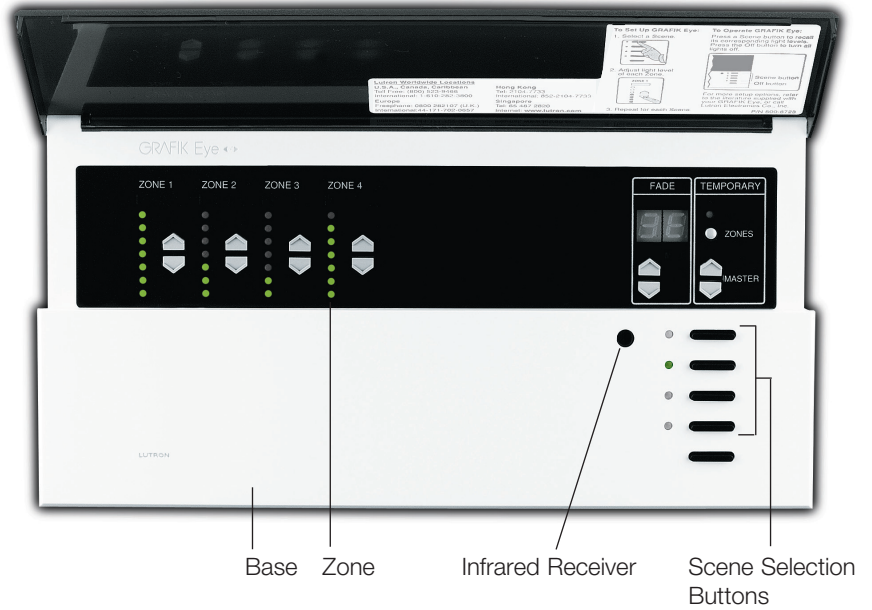
GXI-3000 Control Unit

Job Name:	Model Numbers:
Job Number:	

Specifications

Input Power

- 230 V∼ (CE) 50 Hz
- Lightning Strike Protection:
  Can withstand voltage surges of up to 6000 V∼ and current surges up to 3000 A.

Sources

Controls the following lighting sources with a smooth, continuous Square Law dimming curve or on a full conduction non-dim basis:

- LEDs
- Incandescent
- Electronic Low Voltage
- Magnetic Low Voltage
- Fluorescent
- Neon and Cold Cathode

Load Types

- Leading/Trailing-edge dimming
- 0-10 V⎓
- DALI® (broadcast only)- see DALI® compatibility requirements on page 7
- Switching (non-dimming)

Preset Controls

- 4 preset lighting scenes and off are accessible from the Control Unit front panel.
- 12 additional scenes are stored in the Control Unit. These scenes are accessible via Wallstations and/or Control Interfaces.
- Light levels fade smoothly between scenes. Fade time can be set differently for each scene, between 0-59 sec. or 1-60 min. Fade time from Off is capped at 5 sec.

Key Design Features

- Meets IEC 801-2. Tested to withstand 15 kV electrostatic discharge without damage or memory loss.
- Provides over-current and short-circuit protection.
- Provides capability to trim High-End and Low-End.
- Manual or automatic selection between leading edge or trailing edge dimming for low voltage transformers.
- Provides air gap isolation when the Off scene is selected.
- 10-year power failure memory automatically restores lighting to levels prior to power interruption.
- Faceplate snaps on with no visible means of attachment.

### System Communications and Capacities

- Low-voltage type PELV wiring connects Control Units, Wallstations, and Control Interfaces.
- Up to 8 Control Units may be linked to control up to 32 zones.
- Up to 16 total Wallstations and Control Interfaces may be added for a total of 24 control points.

Environment

- 0-40°C. Relative humidity less than 90% non-condensing.

Job Name:	Model Numbers:
Job Number:	

How to Build a Model Number

G X I - 3 1 0 4 - T - C E - W H

Prefix

Set-Up Method

Number of Zones

Cover Option

Input Voltage
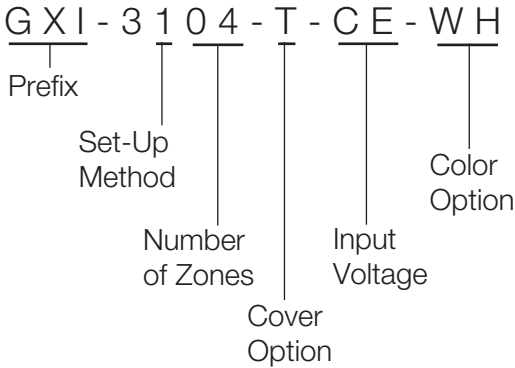
Color Option

Prefix:

GXI for GRAFIK Integrale 3000 Series Control Units

Set-Up Method:

1 for standard setup via front panel
5 for PC setup

Number of Zones:

4

Cover Option:

A for Opaque
T for Translucent Black

Input Voltage

CE for 230 V∼ (CE)

Color Option:

See Color Options list

Cover Options

Opaque   **A**
Cover and Base will match.

Translucent Black   **T**

Black Cover and choice of base color.

Also available:
- Custom controls
- Color matching
- Engraving

These options ship in 4 to 6 weeks

Color Options

Architectural Matte Finishes
Standard – Ship in 48 hours
Cover Option: A or T
White   WH
Ivory   IV
Beige   BE
Gray   GR
Brown   BR
Black   BL

Designer Gloss Finishes
Ship in 4 to 6 weeks
Cover Option: A only
White   GWH
Light Almond   GLA
Almond   GAL
Ivory   GIV

Satin Color Matte Finishes
Cover Option: A or T
Hot   HT
Terracotta   TC
Desert Stone   DS
Stone   ST
Limestone   LS
Midnight   MN
Taupe   TP
Biscuit   BI
Eggshell   ES
Snow   SW

Architectural Metal Finishes
Cover Option: T only
Bright Brass   BB
Bright Chrome   BC
Satin Brass   SB
Satin Chrome   SC
Satin Nickel   SN
Antique Brass   QB
Antique Bronze   QZ
Bright Nickel   BN

Anodized Aluminum Finishes
Cover Option: T only
Clear   CLA
Black   BLA
Brass   BRA
Bronze   BZA

Model Number

230 V∼ (CE) Input Power

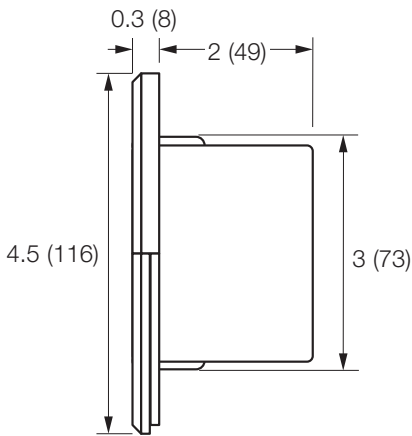| Number of Zones	Model Number	Unit Capacity	Zone Capacity	
			Dimmed/ Switched Live OUtput	Low-voltage control output
4	GXI-3104-_-CE-__	2300 W/VA	800 W/VA	Up to 20 LED Drivers/Ballasts
4	GXI-3504-_-CE-__	2300 W/VA	800 W/VA	Up to 20 LED Drivers/Ballasts

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Job Name:	Model Numbers:
Job Number:	

Dimensions and Mounting

Dimensions shown as: in (mm)
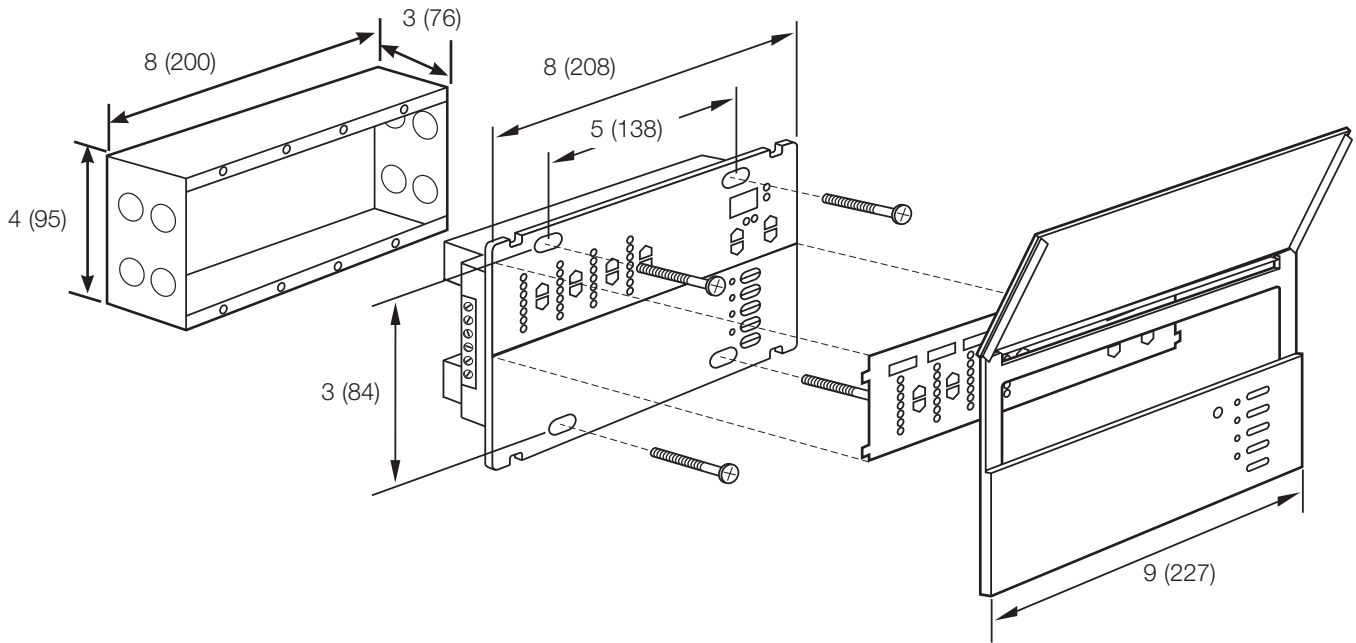
Side View

Backbox Front Views

Lutron P/N 241-400
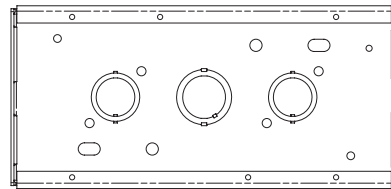
Lutron P/N 241-691 (old-work backbox)
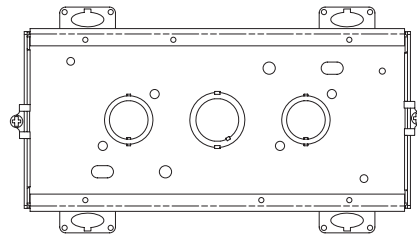
Job Name:	Model Numbers:
Job Number:	

230 V∼ (CE) Mains Voltage Wiring

Pull power wiring from distribution panel and to light fixtures. Each line voltage terminal can accept up to two 12 AWG (2.5 mm^2) wires. For phase-to-neutral wiring, connect one phase to Live and the other phase to Neutral. When wired phase-to-phase, **the air gap does not break both phases while the Control Unit is Off**: the MCB(s) **must** be turned off when servicing the Control Unit or associated loads.

Consult Lutron for:
• Non-dim relay wiring.
• Load side emergency transfer wiring.

Rear View of GXI-3104 Control Unit
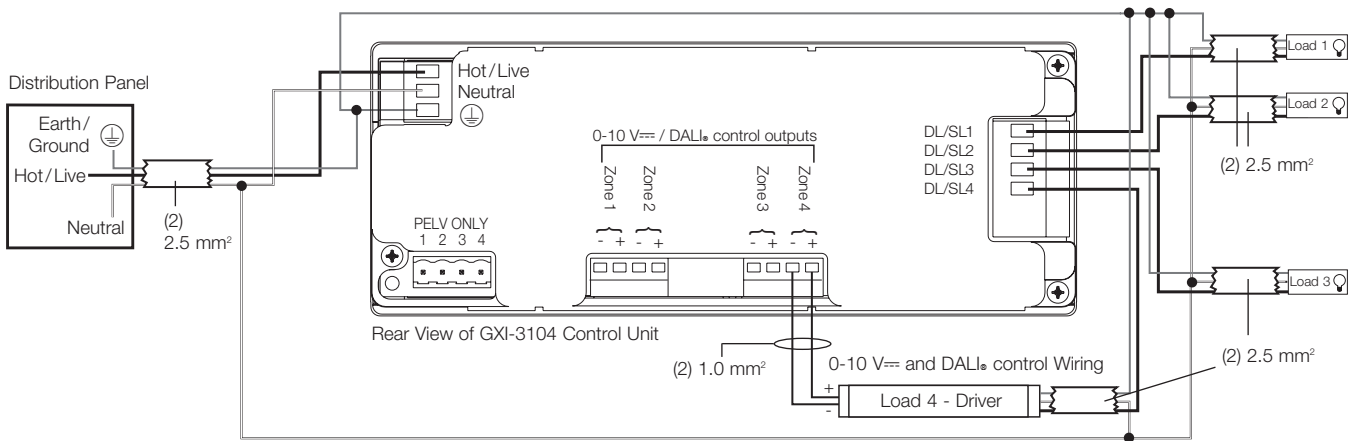
Low-Voltage PELV Wiring

• System communications use low-voltage PELV (Class 2) wiring.
• Wiring must be daisy-chained.
• Wiring must run separately from line (mains) voltage.
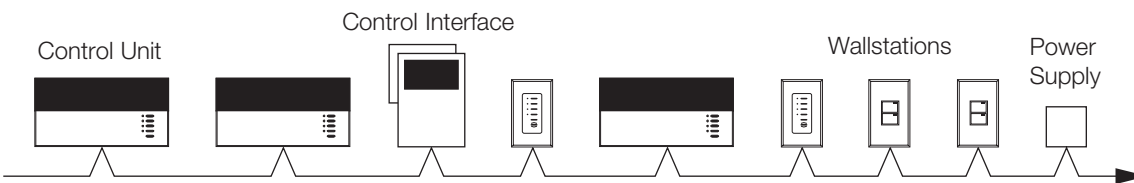
PELV (Class 2) wiring link requires:
Two 12 AWG (2.5 mm^2) conductors for control power.
One twisted, shielded pair of 18 AWG (0.75 mm^2) for data link.

Total length of Control Link may be up to 2000 ft (610 m).
Approved low-voltage cable is available from Lutron[1], Belden, and Liberty.
These are approved with 22 AWG (0.25 mm^2) data link wires.

External 12 V⎓ Power Supply is required to power more than three Wallstations and/or Control Interfaces from a single Control Unit.
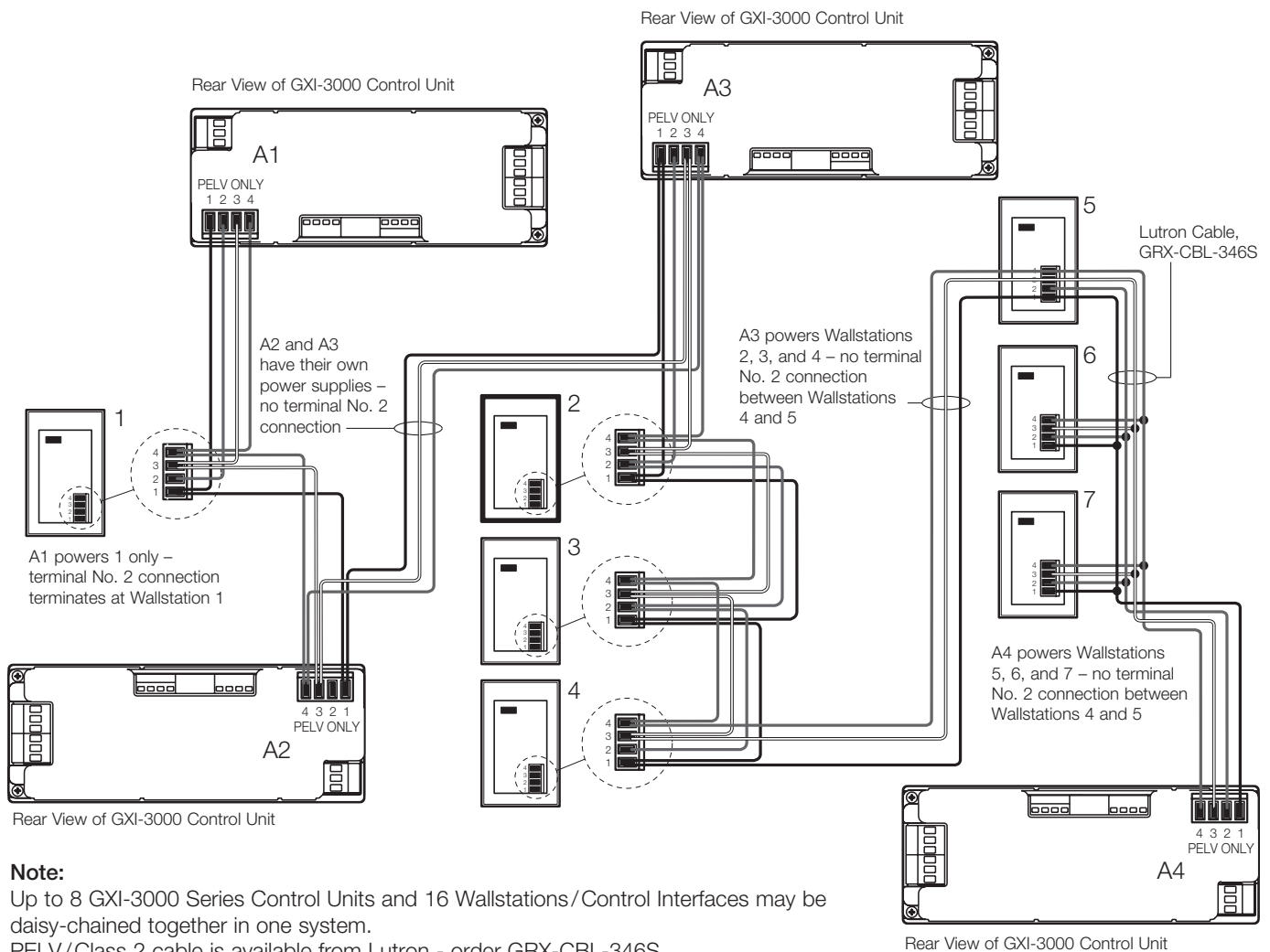
[1] GRX-CBL-346S PELV (Class 2) wiring cable is available from Lutron and contains:
  - Two 12 AWG (2.5 mm^2) conductors for control power.
  - One twisted, shielded pair of 22 AWG (0.25 mm^2) for data link.

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Job Name:	Model Numbers:
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PELV Terminal Connections

- Each PELV terminal accepts up to two 1.0 mm^2 wires.
- Daisy chain the terminal 1, 3, and 4 connections to all Control Units, Wallstations, and Control Interfaces.
- Each Control Unit has its own power supply. Terminate the terminal 2 connection (12 V=== power) so that each Control Unit supplies power to a maximum of three wallstations. Each wallstation should receive power from only one Control Unit.
- Make all connections in the Control Unit's wallbox. Remote connections must be in a switchbox or junction box with a maximum wire length of 8 ft (2.5 m) from the link to the connected unit.
- Do not allow PELV wires to contact line/mains wires.

Rear View of GXI-3000 Control Unit

A3

PELV ONLY
1 2 3 4

Rear View of GXI-3000 Control Unit

A1

PELV ONLY
1 2 3 4

5

Lutron Cable,
GRX-CBL-346S

A2 and A3 have their own power supplies – no terminal No. 2 connection

A3 powers Wallstations 2, 3, and 4 – no terminal No. 2 connection between Wallstations 4 and 5

1

2

6

A1 powers 1 only – terminal No. 2 connection terminates at Wallstation 1

3

7

4 3 2 1
PELV ONLY

A2

Rear View of GXI-3000 Control Unit

4

A4 powers Wallstations 5, 6, and 7 – no terminal No. 2 connection between Wallstations 4 and 5

4 3 2 1
PELV ONLY

A4

Rear View of GXI-3000 Control Unit

Note:
- Up to 8 GXI-3000 Series Control Units and 16 Wallstations/Control Interfaces may be daisy-chained together in one system.
- PELV/Class 2 cable is available from Lutron - order GRX-CBL-346S.

Job Name:	Model Numbers:
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DALI® Compatibility

In order to ensure compatibility with Lutron DALI® controllers, the connected DALI® LED drivers and fluorescent ballasts must be DALI-2® certified and marked. In addition to compatibility, it is important to select high-quality and high-performance LED drivers and fluorescent ballasts. DALI-2® certified devices are readily available from many manufacturers and are tested for compatibility with the standard. For a complete list of available DALI-2® certified devices, see the DiiA® website at https://www.digitalilluminationinterface.org/products. DALI® devices that are not listed on the DiiA® website and are not marked DALI-2® cannot be considered DALI-2® certified.

The DALI® version-1 standard does not ensure compatibility. To apply the original DALI® version-1 mark on LED drivers and fluorescent ballasts, no verification of the test results was required, and manufacturers could self-declare compliance and apply the DALI® mark. If you would like to use an LED driver or fluorescent ballast that is not DALI-2® certified but carries a DALI® version-1 logo, Lutron recommends that these devices be tested to ensure compatibility. Lutron is able to perform this testing on request. Samples of the drivers and light engines must be submitted to Lutron and the expected turnaround time is 6 to 8 weeks after the drivers are received. Fees for testing may apply. Lutron recommends that this testing be performed before the fixtures and lighting controls are purchased and installed. Contact your Lutron sales representative for more information.

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