

GRX-12VDC Power Supply

CAUTION!

- The GRX-12VDC is designed for use with GRAFIK Eye 3000 Series systems only.
- The GRX-12VDC is designed for residential and commercial applications—indoor use only.
- Lutron recommends that the GRX-12VDC be installed by a qualified electrician.
- Install in accordance with all applicable regulations.

Specifications

Power:

Input: 120 V, 60 Hz

Output: Regulated 12 Vdc, 9.5 W

System Wiring:

Low-voltage Class 2 4-wire daisy-chain of two #18 AWG wires and a #18 AWG twisted, shielded pair (all four wires available in one cable from Lutron, GRX-CBL-346S-500).

The GRX-12VDC connects directly to Class 2/PELV wiring.

Description

The GRX-12VDC is a 12 Vdc Plug-In Class 2 Transformer that is used in GRAFIK Eye 3000 systems when connecting more than three Accessory Controls to a Control Unit or if your wiring length exceeds 1000 ft. between the GRAFIK Eye Control Unit and the third Accessory Control. The GRX-12VDC is a regulated power supply that is capable of supplying power to a maximum of 16 Accessory Controls.

Lutron recommends these maximum distances from the GRX-12VDC to the last (sixteenth) Accessory Control: 2000 ft. for #12 AWG and 575 ft. for #18 AWG. Allowable maximum distance depends on the number of Accessory Controls in the system.

Please refer to Application Note W14 for more information.

Installation

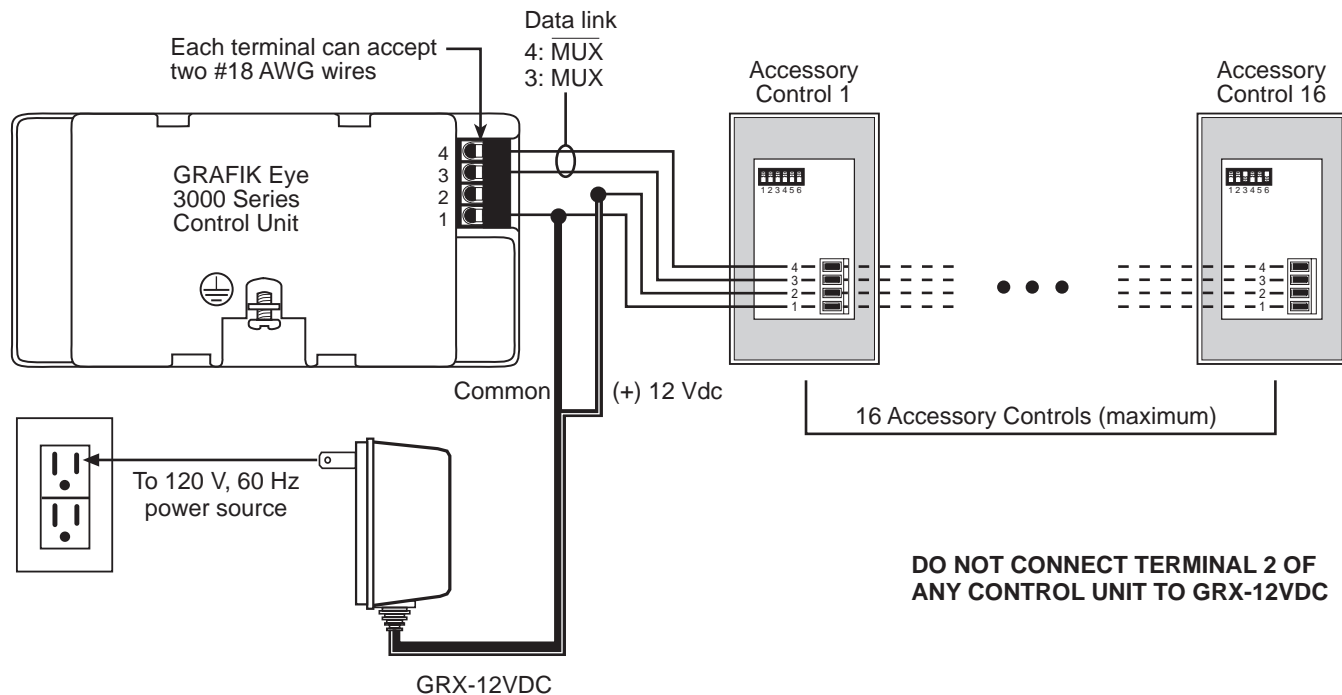


Warning: Always turn Off the circuit breaker or remove the main fuse from the power line before doing any work. Failure to do so can result in serious personal injury.

All connections are made to the Class 2/PELV terminal blocks of the Control Units and/or Accessory Controls.

1. Turn power Off.
2. Connect the **black (common)** wire of the GRX-12VDC to the wire that runs from Terminal 1 of the Control Unit to Terminal 1 of the Accessory Control.
3. Connect the **white-striped (12 Vdc)** wire from the GRX-12VDC to the wire that runs to Terminal 2 of the Accessory Control. **Do not connect the GRX-12VDC to Terminal 2 of the Control Unit!**
4. Connect the twisted pair from terminals 3 and 4 of the Control Unit to terminals 3 and 4, respectively, of the Accessory Control. Wire the remaining Accessory Controls in a standard daisy-chain configuration (see Page 2). Do not connect the GRX-12VDC to terminal 3 or 4!
5. Restore power to the GRAFIK Eye 3000 Series system and plug the GRX-12VDC into the 120 V, 60 Hz power source.

Daisy-Chain Configuration



Internet: www.lutron.com
 E-mail: product@lutron.com

WORLD HEADQUARTERS

Lutron Electronics Co., Inc.,
 7200 Suter Road, Coopersburg, PA 18036-1299 U.S.A.,
TOLL FREE: (800) 523-9466 (U.S.A., Canada, Caribbean), Tel: (610) 282-3800;
 International 1- 610-282-3800, Fax: (610) 282-3090; International 1-610-282-3090

ASIAN HEADQUARTERS

Lutron Asuka Co, Ltd.,
 2F, Kowa Shiba-Koen Bldg., 1-11, Shiba-Koen 1 chome, Minato-ku, Tokyo, 105-0011 Japan,
TOLL FREE: (0120) 083417 (Japan), Tel: (03) 5405-7333;
 International 81-3-5405-7333, Fax: (03) 5405-7496; International 81-3-5405-7496

EUROPEAN HEADQUARTERS

Lutron EA Ltd.,
 Lutron House, 6 Sovereign Close, Wapping, London, E1 9HW, United Kingdom,
FREEPHONE: 0800 282107 (U.K.), Tel: (171) 702-0657;
 International 44-171-702-0657, Fax: (171) 480-6899; International 44-171-480-6899

HONG KONG SALES OFFICE

Lutron GL (Hong Kong)
 Unit 2911, 29th Floor, Bank of America Tower, Central, Hong Kong,
 Tel: 2104-7733; International 852-2104-7733, Fax: 2104-7633; International 852-2104-7633

SINGAPORE

Lutron GL Ltd.,
 6A Upper Cross Street, Singapore 053326,
 Tel: 220 4666; International 65 220 4666, Fax: 220 4333; International 65 220 4333

WARRANTY

Lutron warrants each new unit to be free from defects in materials and workmanship and to perform under normal use and service. This warranty shall run only for a period of one year from the date of purchase and Lutron's obligations under this warranty are limited to remedying any defect or replacing any defective part and shall be effective only if the defective unit is shipped to Lutron postage prepaid within 12 months after purchase. Damage due to abuse, misuse, inadequate wiring or installation is not covered by this warranty.

In no event shall Lutron or any other seller be liable for any other loss or damage, including consequential or special damages that may arise through the use by a purchaser or others of this device and the purchaser assumes and will hold harmless Lutron in respect of all such loss.

Although every attempt is made to ensure that catalogue information is accurate and up-to-date, please check with Lutron before specifying or purchasing this equipment to confirm availability, exact specifications and suitability for your application.

Lutron and GRAFIK Eye are registered trademarks of Lutron Electronics Co., Inc.
 © 1999 Lutron Electronics Co., Inc.



Lutron Electronics Co., Inc.
 Made and printed in U.S.A. 2/99
 P/N 039-015 Rev. A