

Overview

For situations where small loads are used but an emergency circuit is also required, a GRAFIK Eye 3100/3500 control unit and a GP Dimming Panel can be used with a normal/emergency (n/e) feeder. This layout requires the following: (see wiring diagram)

1. A UL 1008 listed automatic emergency transfer switch (provided by others) ahead/upstream of the dimmer panel.
2. Power supply that is always hot (for the normal/emergency source).
3. The slide switch on the bottom of the circuit selector on the dimmer panel must be set to emergency mode (far right).
4. The #5 terminal on the Circuit Selector on the dimmer panel must be connected to the #2 terminal on the GRAFIK Eye Control Unit.
5. The #1 terminal (common) on the Circuit Selector on the dimmer panel must be connected to the #1 (common) terminal on the GRAFIK Eye Control Unit. Additionally, the #3 and #4 terminals (respectively) need to be connected between both units.
6. Normal/emergency 2,3, or 4 wire input service from the n/e service distribution panelboard to the dimmer panel designated for n/e.

Upon loss of normal power, circuits on emergency automatically go to full light output via the full-on electronics in the dimmer panel. Upon restoration of normal power, lights shall return to the level set prior to power operation.

Under normal power, those circuits connected to the GP Dimmer Panel will still be operated through the panel, however they will be able to be controlled normally from the GRAFIK Eye Control Unit. All circuits connected directly to the GRAFIK Eye Control Unit will also be able to be controlled normally.

How To Test

After start-up procedure is complete, turn off circuit breaker(s) to GRAFIK Eye 3000 control unit. Load circuits on the GP Dimmer Panel should go to full light output and the display on the circuit selector should read "ord" for override. Turn control breaker(s) to GRAFIK Eye 3000 control unit back on for normal operation.

How It Works

The #5 terminal on the circuit selector in the dimmer panel is a sense line for emergency operation. When normal power is lost, this sense voltage from terminal #2 on the GRAFIK Eye 3000 control unit is lost. Provided the emergency power has been switched by the transfer switch to feed the emergency dimmer panel (GP Dimmer Panel), all emergency circuits will be turned on to full intensity. In other words, the loss of this sense line signals the circuit selector to send the full-on signal to the dimmers. Only those loads connected to the GP Dimming Panel will be active during emergency operation.

NOTE: This type of emergency full-on may be used with either a n/e generator, UPS* or IPS system with a maximum of 10% THD, or a constant hot secondary utility feed and requires that only a single n/e feeder be furnished to the n/e panels.

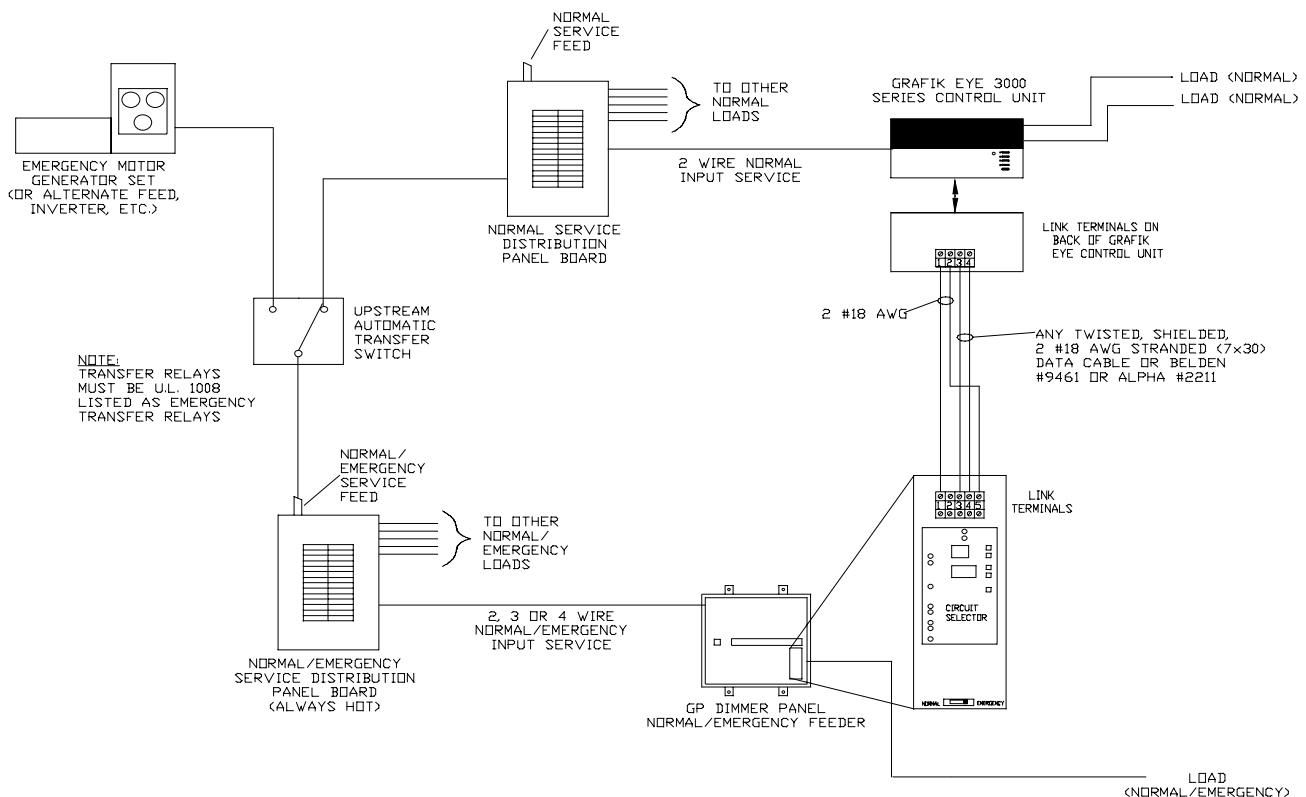
*UPS must furnish a TRUE sinusoidal waveform input to n/e dimmer panel

Circuit Minimum Lighting Level

In order to provide a minimum lighting level for each circuit refer to the "Chicago Setting" in the Circuit Selector Advanced Functions Guide for the GRAFIK Eye 4000 Series. The Chicago Setting prevents a circuit from going below a specified minimum lighting level, even if OFF has been selected on the GRAFIK Eye control unit for that circuit.

Wiring Diagram

The following wiring diagram illustrates how to wire a GRAFIK Eye 3000 Control Unit with a GP Dimming Panel in an Emergency Transfer situation. Emergency transfer switch provided by others.



Additional Information

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, and the Caribbean)
Tel: (610) 282-3800; International 1610 282-3800
Fax: (610) 282-3090; International 1610 282-3090

European Headquarters

Lutron EA LTD
Lutron House
6 Sovereign Close
Wapping
London, E1 9HW England
FREEPHONE: 0800 282107 (U.K.)
Tel: (0171) 702-0657; International 44-171-702-0657
Fax: (0171) 480-6899; International 44-171-480-6899

Hong Kong Office

Tel: 2593-1119; International 852-2593-1119
Fax: 2593-1197; International 852-2593-1197

Singapore Office

Tel: 487-2820; International 65-487-2820
Fax: 487-2825; International 65-487-2825

Japan Office

Lutron Asuka Corporation K.K.
Kowa Shibakoen Bldg. 2nd Floor
1-1-11 Shibakoen
Minato-ku, Tokyo 105-0011, Japan
TOLL FREE: (0120) 083417 (Japan)
Tel: International 81 3 5405 7333
Fax: International 81 3 5405 7496

Worldwide Technical and Sales Assistance

If you need technical assistance, call the toll-free **Lutron Technical Assistance Hotline**. Please provide exact model number when calling.
(800) 523-9466 (U.S.A., Canada and the Caribbean)
Other countries call:
Tel: (610) 282-3800; International: 1 610 282-3800
Fax: (610) 282-3090; International: 1 610 282-1243
Our address on the Web is www.lutron.com

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