

GLPAC-DIMFLV

Crestron Green Light® Integrated Lighting System

- > Up to 8 channels of 0-10 Volt dimming control
- > Works in 100 to 277 VAC systems
- > 16-Amp load rating per channel
- > Built-in Control System with Cresnet® and Ethernet port
- > UL924 compliant emergency configuration in GLPAC-DIMFLV8-4E Series models
- > Programmable astronomical time clock for scheduled events
- > Preloaded program for quick setup
- > Optional real-time power monitoring per channel
- > Supports keypad control, occupancy sensing, and daylight harvesting for up to 4 rooms
- > Positive air gap at each output
- > Phase-independent channels
- > Local controls for setup, testing and verification
- > Local and remote override capability
- > Non-volatile power failure memory
- > High-speed Ethernet LAN port
- > CEC Title 24 2013 Compliant

The GLPAC-DIMFLV is a Crestron Green Light® integrated lighting system designed for use as a standalone lighting controller in classrooms, conference rooms, and offices. While able to deliver four or eight channels of 0-10 Volt dimming control, each GLPAC-DIMFLV also provides a link to a centralized Crestron® lighting control system. Add optional real-time power monitoring and Fusion EM® Energy Management Software to help track and minimize energy usage throughout a facility. Cresnet® and Ethernet connectivity afford extensive system configuration when using keypads, touch screens, shade controllers, and more.

Flexibility

Each GLPAC-DIMFLV can be used to control a single room or up to four independent rooms. Single-room control is available right out of the box, with no additional configuration required. Multi-room control and other system adjustments are accomplished using local controls on the GLPAC-DIMFLV or via the built-in web interface. And because the GLPAC-DIMFLV is a Crestron 2-Series control processor, limitless customization is possible for specialized applications.

Astronomical Time Clock Feature

Scheduled events may be programmed on the GLPAC-DIMFLV according to an astronomical time clock. As a result, events can be set to occur at specific times or at an offset from sunrise or sunset.

Save Energy

Built-in support for occupancy sensors and photosensors helps to reduce energy costs. Automatically turn off lights in unoccupied areas and maintain balanced bulb brightness with the natural light level in the room. Crestron GLS Series sensors can be placed strategically in each space to maximize the benefits of energy management.



Emergency Configuration

Each GLPAC-DIMFLV8-4E Series model features built-in voltage barriers that isolate four of its eight output channels. This configuration allows loads such as emergency lighting and exit signs to be supplied from two asynchronous sources.

Built-in Power Monitoring

Optional power monitoring tracks the real time energy usage of each load and delivers energy consumption statistics to the user to help control energy costs. By analyzing real data, organizations can make more educated decisions regarding energy resources, which will have greater impact on the bottom line.

Easy Deployment

Packaged in one metal enclosure, the GLPAC-DIMFLV can be deployed in small spaces, including plenum ceilings. The surface-mount GLPAC-DIMFLV can be affixed to a wall or ceiling rafter, cleanly out of sight. Standard wire-entry knockouts are provided.

For more information on Crestron Green Light commercial lighting products, please contact Crestron [Sales Support Services](#).

SPECIFICATIONS

Load Ratings

Dimmer Channels: GLPAC-DIMFLV4 Series: 4

GLPAC-DIMFLV8 Series: 8

GLPAC-DIMFLV8-4E Series: 4 and 4, isolated

Per Channel: 16 Amps @ 100 to 277 Volts AC, 50/60 Hz

Dim Load Types: 0-10 Volt fluorescent ballast or LED driver (4-wire); 60 mA max current sink

Switch Load Types: Fluorescent Ballast, incandescent, magnetic low-voltage, electronic low-voltage, neon/cold cathode, high-intensity discharge, LED, motor

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Relay Lifetime: Resistive rating: 100,000 on/off operations, 50 Amps @ 277 Volts AC

General rating: 50,000 on/off operations, 16 Amps @ 120/277 Volts AC

Power Requirements

Main Power: 100-277 Volts AC, 50/60Hz, supplied via channel 1 (LINE 1, NEUT)

Available Cresnet Power: 10 Watts at 24 Volts DC, shared with occupancy and photosensor ports

Connectors (Class 1) - 4-Channel Models Only

NEUT: (2) Terminal blocks, paralleled, line input neutral

LINE 1 - LINE 4: (8) Terminal blocks, paralleled, line power inputs

SW1 - SW4: (4) Terminal blocks, switch channel outputs

0-10V DIM (+,-) 1-4: (1) 8-position terminal block, dim channel output, galvanically isolated; May be wired as Class 1 or Class 2

Connectors (Class 1) - 8-Channel Models Only

NEUT: (2) Terminal blocks, paralleled, line input neutral

LINE 1 - LINE 8: (16) Terminal blocks; 2 connections per channel, paralleled, allows for easy daisy chaining; line power inputs

SW1 - SW8: (8) Terminal blocks, switch channel outputs

0-10V DIM (+,-) 1-8: (2) 8-position terminal block, dim channel output, galvanically isolated; may be wired as Class 1 or Class 2

Connectors (Class 2)

NET SLAVE: (1) 4-pin 3.5mm detachable terminal block; Cresnet ports for connection to main control processor or other GLPAC-DIMFLVs, does not output 24 Volts DC

OVR: (1) 2-pin 3.5mm detachable terminal block, comprising (2) inputs for external contact closures to trigger the preset Override state

NET LOCAL: (1) 4-pin 3.5mm detachable terminal block; Cresnet ports for connection to local devices such as keypads, shade controllers, and touch screens; outputs 24 Volts DC

RELAY 1-4 (-PM models only): (1) 8-pin 3.5mm detachable terminal blocks comprising (4) normally open, isolated relays; Programmable or used for interfacing to local Variable Air Volume box to indicate room occupancy; Rated 1 Amp, 30 Volts DC

INPUT 1-8: (1) 9-pin 3.5mm detachable terminal block comprising (8) digital input ports, referenced to ground

OCCUPANCY SENSOR INPUT 1-4: (1) 6-pin 3.5mm detachable terminal block comprising (4) occupancy sensor inputs, (1) +24VDC, and (1) GND port (provides sensors with power)

PHOTOCELL 1-4: (1) 6-pin 3.5mm detachable terminal block comprising (4) photocell sensor inputs, (1) +24VDC, and (1) GND port (provides sensors with power); Min-change setting can be adjusted to control how often sensor reports changes in values

USB: (1) USB Type B console port, for communication with Crestron Toolbox™

LAN: (1) 8-wire RJ45 with 2 LED indicators; 10/100BaseT Ethernet port; Green LED indicates link status; Yellow LED indicates Ethernet activity

Controls & Indicators

MODE: (2) 7-Segment green LED digits and (2) miniature pushbuttons for setting mode during setup or local control

VALUE: (2) 7-Segment green LED digits and (2) miniature pushbuttons for setting value

SAVE: (1) Red LED and (1) miniature pushbutton for saving settings

CANCEL: (1) Red LED and (1) miniature pushbutton for cancelling current operation

PWR: (1) Green LED; solid illumination indicates line power is applied to NEUT and LINE1

HW-R: (1) Recessed miniature pushbutton for hardware reset (reboots the processor)

SW-R: (1) Recessed miniature pushbutton for software reset (restarts the SIMPL program)

NET-C: (1) Yellow LED; indicates communication with main control processor (if being used)

NET-L: (1) Yellow LED; indicates communication with local devices

MSG: (1) Red LED; indicates control system has generated an error message

OVR: (1) Red LED and (1) miniature pushbutton for enabling override mode

ON/OFF: (8) Red LEDs and (8) miniature pushbuttons for individual manual channel activation and dimming

Enclosure

Surface mount metal box enclosure, suitable for mounting in plenum airspace

Environmental

Temperature: 32° to 104° F (0° to 40° C)

Humidity: 10% to 90% RH (non-condensing)

Dimensions

Height: 12.13 in (308 mm)

Width: 14.13 in (359 mm)

Depth: 4.06 in (103 mm)

Electrical Regulatory Certifications

Relays tested and certified for Electronic Ballasts according to UL508, Section 41 (Endurance Test) and Section 61C (Electronic Ballasts) IEC60669-2-1, Section 19.102 (Contact mechanisms incorporated in electronic switches, intended for fluorescent lamp circuits or other capacitive loads)

CE

UL924 Listed upon request

CEC Title 24 2013 Compliant

MODELS & ACCESSORIES

Available Models

GLPAC-DIMFLV4: Green Light Integrated Lighting System, 4-Channel

GLPAC-DIMFLV4-CP: Green Light Integrated Lighting System, 4-Channel, Chicago Plenum Enclosure

GLPAC-DIMFLV Crestron Green Light® Integrated Lighting System

GLPAC-DIMFLV4-PM: Green Light Integrated Lighting System, 4-Channel, Power Monitoring

GLPAC-DIMFLV4-PM-CP: Green Light Integrated Lighting System, 4-Channel, Power Monitoring, Chicago Plenum Enclosure

GLPAC-DIMFLV8: Green Light Integrated Lighting System, 8-Channel

GLPAC-DIMFLV8-CP: Green Light Integrated Lighting System, 8-Channel, Chicago Plenum Enclosure

GLPAC-DIMFLV8-PM: Green Light Integrated Lighting System, 8-Channel, Power Monitoring

GLPAC-DIMFLV8-PM-CP: Green Light Integrated Lighting System, 8-Channel, Power Monitoring, Chicago Plenum Enclosure

GLPAC-DIMFLV8-4E: Green Light Integrated Lighting System, 2 Isolated 4-Channel Outputs, UL924 Listed

GLPAC-DIMFLV8-4E-CP: Green Light Integrated Lighting System, 2 Isolated 4-Channel Outputs, UL924 Listed, Chicago Plenum Enclosure

GLPAC-DIMFLV8-4E-PM: Green Light Integrated Lighting System, 2 Isolated 4-Channel Outputs, UL924 Listed, Power Monitoring

GLPAC-DIMFLV8-4E-PM-CP: Green Light Integrated Lighting System, 2 Isolated 4-Channel Outputs, UL924 Listed, Chicago Plenum Enclosure, Power Monitoring

Available Accessories

CNX-B2B Series: Designer Keypads

C2N-CBD-E Series: Cameo® Express Keypads

C2N-CBD-P Series: Cameo® Keypads, Standard Mount

C2N-CBF-P Series: Cameo® Keypads, Flush Mount

GLS-SIM: Crestron Green Light® Sensor Integration Module

GLS-LEXT: Crestron Green Light® Photocell, Exterior

GLS-LOL: Crestron Green Light® Photocell, Open-Loop

GLS-LCL: Crestron Green Light® Photocell, Closed-Loop

GLS-ODT-C-CN: Dual-Technology Occupancy Sensor with Cresnet®, 2000 Sq. Ft.

GLS-ODT-C-NS: Dual-Technology Ceiling Mount Occupancy Sensor

GLS-ODT-C-2000: Crestron Green Light® Dual-Technology Ceiling Mount Occupancy Sensor, 2000 Sq. Ft.

GLS-ODT-W-1200: Crestron Green Light® Dual-Technology Wall Mount Occupancy Sensor, 1200 Sq. Ft.

GLS-OIR-C-CN: Passive Infrared Occupancy Sensor with Cresnet®

GLS-OIR-C-NS: Passive Infrared Ceiling Mount Occupancy Sensor

GLS-OIR-W-2500: Crestron Green Light® Passive Infrared Wall Mount Occupancy Sensor, 2500 Sq. Ft.

GLS-PLS-120/277: Power Loss Sensor, 3-Phase, 120 or 277 Volts

DIN-PWS50: DIN Rail 50 Watt Cresnet Power Supply

GLA-PWS50: Wall Mount 50 Watt Cresnet® Power Supply

Notes:

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

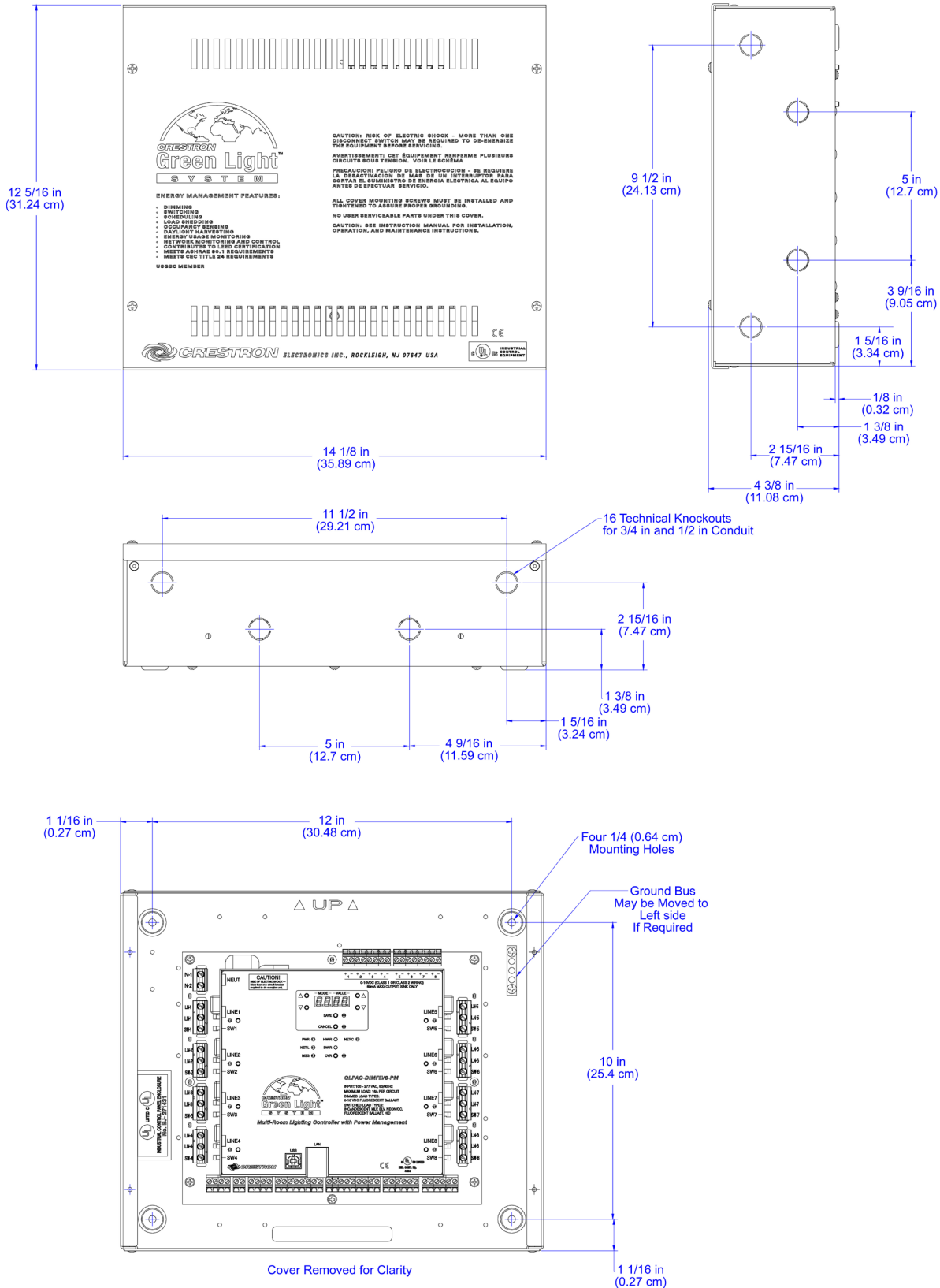
The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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GLPAC-DIMFLV Crestron Green Light® Integrated Lighting System

CAD DRAWING

(GLPAC-DIMFLV8-PM SHOWN)



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APPLICATION DIAGRAM

