- > Works in 120-277VAC systems
- > Ideal for new construction or retrofits
- Quick and easy commissioning via optional handheld remote (GLPPA-REMOTE-PROG)
- > Wired or wireless link to central Crestron® system
- > 1, 2, and 3-channel models available
- > Switched and 0-10V dimming models available
- > Integrates with occupancy sensor and photo sensor
- > Supports up to three remote keypads
- > Easy keypad wiring using existing switch-loop wiring
- > Optional handheld remote for daily use (GLPPA-REMOTE-USER)
- > Real-time energy monitoring on select models
- > Adaptive zero-cross switching for extended life
- > Seamless integration with Crestron AV systems
- > CEC Title 24 2013 Compliant

The Crestron Green Light® Power Pack (GLPP) family delivers affordable room lighting control with the essential features for reducing energy usage. Available with up to three channels of switching or 0-10V dimming, each GLPP model includes inputs for a photo sensor and occupancy sensor to control lighting levels automatically based on the amount of natural light and the presence of people in a space, offering a cost-effective and powerful lighting-control solution for classrooms, small offices, and openplan offices.

Ideal for new construction as well as retrofitting existing buildings, GLPPs are designed to install and commission quickly and without hassle. Additionally, the GLPP can be connected to a central control system, enabling it to become an integral part of the building energy management system. The dimming models also include built-in power monitoring to track energy usage in real time, providing accurate metrics to assess real power savings. When installed as a standalone lighting system, the GLPP can be easily commissioned via an optional, wireless IR remote (the GLPPA-REMOTE-PROG).

Easy Installation

Designed to mount directly over a pair of adjacent 4" square electrical boxes, the GLPP is easy to prepare for and install. High- and low-voltage connections are made using the labeled, color-coded flying-lead wires. Once installed, each unit is instantly operational, providing out-of-the-box default settings adequate for many applications.

Further commissioning tweaks to the GLPP are a snap with the optional GLPPA-REMOTE-PROG remote. For added convenience, this remote can use the IR receiver on a GLS-ODT-C-NS or GLS-OIR-C-NS occupancy sensor connected to the GLPP to send commissioning and setup commands. If occupancy sensors are not present, the optional the GLPPA-IRGW-F flushmount, external IR receiver facilitates smooth operation of a GLPP remote in any size room.



Energy Efficiency

Occupancy sensor and photo sensor inputs drive the potential for significant energy savings. Lights will turn off automatically when the room is vacated, and rooms with adequate daylight will dim automatically. During the simple commissioning process, these cost-saving techniques can be made permanent to prevent users from overriding them.

Built-in Power Monitoring

Power monitoring, included on all dimming models^[1], tracks the real time energy usage of each GLPP, thereby delivering statistics 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.

User Interface Options

Recall specific scenes or manually adjust light levels in a space with up to three, 4-button GLPPA-KP keypads or the optional handheld user remote GLPPA-REMOTE-USER. To help promote installation in existing spaces, these discrete keypads can be installed in place of standard toggle switches while utilizing existing switch-loop wiring^[2].

Adaptive Zero-Cross Switching

The GLPP is built to last and extend the life of the connected ballasts and lamps. By using a proprietary, closed-loop zero-cross switching scheme, the GLPP ensures that relay contacts close under no load.

Crestron® Integrated Building Control System

As with all Crestron products, control goes beyond just a single room. While the GLPP is a great single room solution, it is designed to be part of a larger Crestron integrated building system, linked via wired or wireless communication to the central control system. With Crestron Fusion EM® software, building managers have total energy monitoring, management, and control capabilities over all GLPPs and other installed Crestron equipment.



Cresnet® Models - Wired Communication

Robust and reliable communications between the GLPP and a control system is provided over the Cresnet bus. The versatile topology of Cresnet means that installers can home-run, daisy-chain, or mix and match as needed. Cresnet connects to the GLPP via flying leads with wire nuts, eliminating any need for crimpers or connectors and making for a more secure, trouble-free termination.

infiNET EX® Models - Wireless Communication

Ultra-reliable infiNET EX wireless technology provides steadfast two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. Employing a 2.4 GHz mesh network topology, each infiNET EX device functions as an expander, passing command signals through to every other infiNET EX device within range (approximately 150 feet or 46 meters indoors), ensuring that every command reaches its intended destination without disruption^[3].

The GLPP communicates with a Crestron control system via an infiNET EX Wireless Gateway (model CEN-RFGW-EX, DIN-AP3MEX, or MC3^[4]). Up to 100 infiNET EX devices may coexist on a single wireless network, and every non-battery-powered device that is added to the network effectively increases the range and stability of the entire network by providing multiple redundant signal paths^[3].

SPECIFICATIONS

Load Ratings

Dim/Switched Channels: 1, 2, or 3 switched or dimmed (0-10V) loads (depending on model)

Per Unit: 16 Amps @ 100-277VAC, 50/60Hz (20 Amps, de-rated to 80%) Dim Load Types (for dimming models): 0-10 Volt fluorescent ballast (4-wire); 0-10V LED drivers; 60 mA max current sink

Switch Load Types: Fluorescent Ballast, Incandescent, Magnetic Low-Voltage, Electronic Low-Voltage, Neon/Cold Cathode, High-Intensity Discharge

Relay Lifetime: 1,000,000 cycles

Power Requirements

Power Consumption: Wired Models: 1.5 Watts @ 120-277V, with no sensors or keypads attached

Wireless Models: 2 Watts @ 120-277V, with no sensors or keypads attached

Main Power: 100-277 Volts AC, 50/60Hz

Available Sensor Power: 2.5W @ 24 Volts DC (sufficient for powering

multiple sensors)

Controls & Indicators

POWER: (1) Green LED; indicates line voltage supplied to unit

STATUS: (1) Red LED; indicates unit is in setup mode STATUS: (1) Recessed push button; toggles setup mode

IR RECEIVER: (1) IR window for use with commissioning remote control

Connections (Class 1)

HOT: (1) 14 AWG Class 1 flying lead, black, line in (100-277 VAC)

NEUT: (1) 14 AWG Class 1 flying lead, white

SW HOT: (1, 2 or 3) 14 AWG Class 1 flying lead(s), red, switched hot

labeled with channel number

GROUND: (1) 14 AWG Class 1 flying lead, green w/yellow stripe

Connections (Class 1) - Dimming Models Only

0-10V dim(+): (1, 2 or 3) 18 AWG Class 1 flying lead(s), violet, labeled with channel number

0-10V dim(-): (1) 18 AWG Class 1 flying lead, gray

Connections (Class 2)

COM: (1) 18 AWG Class 2 flying lead, black; common for sensors, IR and Cresnet®

24V: (1) 18 AWG Class 2 flying lead, red, sensor power

OCC: (1) 18 AWG Class 2 flying lead, orange, signal for occupancy sensor PHOTO: (1) 18 AWG Class 2 flying lead, yellow, signal for photo sensor IR: (1) 18 AWG Class 2 flying lead, brown wire, connects to IR terminal of GLS-ODT-C-NS or GLS-OIR-C-NS occupancy sensor; if sensors are not present, brown wire can also connect with optional flush-mount, external IR receiver (GLPPA-IRGW-F)

KEYPAD: (2) 18 AWG Class 2 flying leads, white w/black stripe; supports up to three (3) GLPPA-KP Power Pack Keypads

Connections (Class 2) - Cresnet Models Only

CNET Z: (1) 18 AWG Class 2 flying lead, blue, Cresnet Data Z CNET Y: (1) 18 AWG Class 2 flying lead, white, Cresnet Data Y

Connections (Class 2) - infiNET EX Models Only

Antenna: (1) connection for supplied antenna

Enclosure

20-gauge galvanized steel enclosure; designed for mounting to two (2) adjacent standard 4" square electrical junction boxes^[5]; 3-channel versions require a box depth of 2.125 in (54 mm)

Environmental

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

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

Dimensions

Height: 4.25 in (108 mm)

Width: 8.63 in (219 mm); 9.88 in (251 mm) with antenna at 90° angle

(wireless model only)

Depth: 2 in (51 mm)

Weight

2 lb (907 g)



Standards & Certifications

UL916

FCC

Title 24

Relays listed under UL508 Section 41 (Endurance Test) and Section 61C (Electronic Ballasts)

CEC Title 24 2013 Compliant

MODELS & ACCESSORIES

Available Models

GLPP-SWCN: Crestron Green Light® Power Pack, 1-Channel Switch w/ Cresnet®

GLPP-1SW2CN: Crestron Green Light® Power Pack, 2-Channel Switch w/ Cresnet®

GLPP-1SW3CN: Crestron Green Light® Power Pack, 3-Channel Switch w/ Cresnet®

GLPP-DIMFLVCN-PM: Crestron Green Light® Power Pack, 1-Channel 0-10V Dimmer w/Cresnet® & Built-in Power Monitoring

GLPP-1DIMFLV2CN-PM: Crestron Green Light® Power Pack, 2-Channel

0-10V Dimmer w/Cresnet® & Built-in Power Monitoring

GLPP-1DIMFLV3CN-PM: Crestron Green Light® Power Pack, 3-Channel

0-10V Dimmer w/Cresnet® & Built-in Power Monitoring GLPP-SWEX: Crestron Green Light® Power Pack, 1-Channel Switch w/

infiNET EX® Wireless

GLPP-1SW2EX: Crestron Green Light® Power Pack, 2-Channel Switch w/infiNET EX® Wireless

GLPP-1SW3EX: Crestron Green Light® Power Pack, 3-Channel Switch w/infiNET EX® Wireless

GLPP-DIMFLVEX-PM: Crestron Green Light® Power Pack, 1-Channel 0-10V Dimmer w/infiNET EX® Wireless & Built-in Power Monitoring GLPP-1DIMFLV2EX-PM: Crestron Green Light® Power Pack, 2-Channel 0-10V Dimmer w/infiNET EX® Wireless & Built-in Power Monitoring GLPP-1DIMFLV3EX-PM: Crestron Green Light® Power Pack, 3-Channel

0-10V Dimmer w/infiNET EX® Wireless & Built-in Power Monitoring

Available Accessories

GLPPA-KP-W-S: In-wall Keypad for GLPP, White Smooth

GLPPA-KP-B-S: In-wall Keypad for GLPP, Black Smooth

GLPPA-KP-A-S: In-wall Keypad for GLPP, Almond Smooth

GLPPA-REMOTE-PROG: Commissioning Remote for GLPP

GLPPA-REMOTE-USER: User Remote for GLPP

GLPPA-IRGW-F: IR Gateway for GLPP, Flush Mount

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

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

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

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

GLS-LEXT: Crestron Green Light® Photocell, Outdoor

CEN-RFGW-EX: infiNET EX® Wireless Gateway (Only for: GLPP-1DIM-FLV2EX-PM, GLPP-1DIMFLV3EX-PM, GLPP-1SW3EX, GLPP-1SW3EX,

DIMFLVEX-PM, GLPP-SWEX)

CEN-RFGW-EX-PWE: infiNET EX® Wireless Gateway w/PoE Injector (Only for: GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, GLPP-1SW2EX, GLPP-1SW3EX, GLPP-DIMFLVEX-PM, GLPP-SWEX)

MC3: 3-Series Control System® w/infiNET EX® (Only for: GLPP-1DIM-FLV2EX-PM, GLPP-1DIMFLV3EX-PM, GLPP-1SW2EX, GLPP-1SW3EX, GLPP-DIMFLVEX-PM, GLPP-SWEX)

DIN-AP3MEX: DIN Rail 3-Series® Automation Processor w/infiNET EX® (Only for: GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, GLPP-1SW2EX, GLPP-1SW3EX, GLPP-DIMFLVEX-PM, GLPP-SWEX)

CLW-EXPEX-GD-W-T: infiNET EX® Wireless Expander, Ground Pin Down, White Textured (Only for: GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, GLPP-1SW2EX, GLPP-1SW3EX, GLPP-DIMFLVEX-PM, GLPP-SWEX)
GLA-EXPEX: Crestron Green Light® Wireless Expander for infiNET EX®

GLA-EXPEX: Crestron Green Light® Wireless Expander for infiNET EX® Networks (Only for: GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, GLPP-1SW2EX, GLPP-1SW3EX, GLPP-DIMFLVEX-PM, GLPP-SWEX)

Notes:

- 1. Models with suffix "-PM"
- 2. Two dedicated wires are required from the keypad location to the GLPP.
- Any infiNET EX device that provides expander functionality will effectively extend the range of the wireless network beyond the initial range of the gateway. Battery-powered infiNET EX devices do not provide expander functionality.
- 4. Item(s) sold separately.
- 5. Some models may need a box extension to meet code requirements.

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.

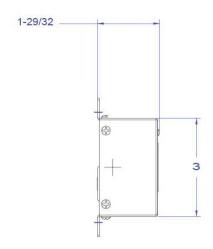
The specific patents that cover Crestron products are listed online at: patents.crestron.com.

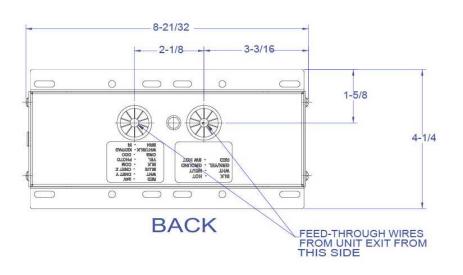
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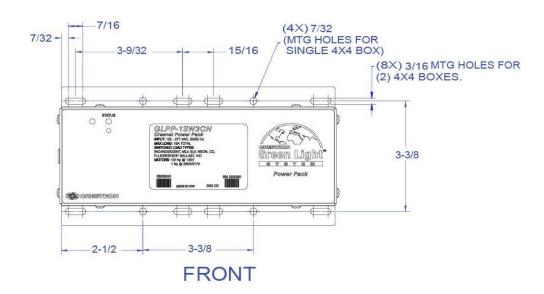
CAD DRAWINGS

GLPP-1SW3CN Shown









APPLICATION DIAGRAMS

