LP24 Peanut Plus Lighting Control Panels

PROJECT

LOCATION/TYPE

Product Overview

Description

WattStopper's LP24 Peanut Plus Lighting Control Panels provide simple, effective zone-based control of exterior and interior lighting in small applications. Panels control up to eight channels or zones of lighting. Zones respond to control signals from the system clock (or other signalling device) to turn lighting on and off. LP24 Panels ship pre-assembled in easy-to-install packages. They consist of relays, a system clock, panel intelligence, power supply, large tub with DIN rails for mounting up to twelve contactors (shipped separately) and cover.

Operation

For exterior applications, the system clock provides astronomic control (based on sunrise and sunset), or an optional EM Photocell can be added for light-level control. For interior applications, AS-100 Automatic Control Switches or other low voltage switches can automate after-hours lighting shutoff while providing manual override control.

System Clock

The LP24 system clock provides automation and features a seven-day format with holiday scheduling. Set-up and programming is simple with an easy-to-navigate keypad, backlit LCD and user-friendly help menus. Preprogrammed control scenarios include: scheduled-on/off and manual-on/scheduled-off. Manual-on/sweep-off is available with an AS-100 switch. Astronomic or photocell on/off, and astronomic or photocell with schedule on/off available by adding an EM Photocell.

Applications

LP24 Panels save energy by turning lights off when not needed, while providing a secure illuminated space when occupants are present. They are ideal for areas with two-pole loads and a small amount of zones in both interior (i.e., gymnasiums, elevator lobbies, commercial warehouses and parking garages) and exterior (i.e., parking lots, courtyards, sports fields and driveways) applications. LP24 Panels integrate with a wide range of control devices such as switches and occupancy sensors to create a flexible lighting shutoff strategy.

Features

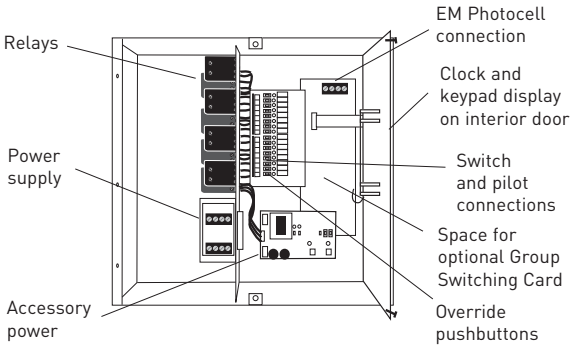
- Preprogrammed control scenarios; seven-day scheduling with holiday, astronomic control and automatic daylight savings
- Time retained during power outage; nonvolatile program memory
- Eight universal switch inputs for low voltage switches, occupancy sensors, photocells or other devices to directly control each relay
- Uses individually replaceable HDR5P Mechanically Latching Relay with integral manual override
- Controls single and multiphase loads
- Optional group of eight universal switch inputs for pushbutton grouping of relays (Smartwiring™)
- Pushbuttons for manual override of each relay
- LED for visual indication of relay status
- Accepts most types of switch inputs
- Separate high and low voltage sectors for user protection
- DIN rail accepts up to 12 four-pole contactors

Specifications

- Multiple power supplies available: 115/277 VAC, 220-240 VAC, 115/347 VAC; 50/60 Hz
- Relay: Mechanically latching
  Integral manual override
  Individually replaceable
  UL 20 listed for receptacle circuit control
  Ratings: 20 Amp tungsten @ 120 VAC
  30 Amp ballast @ 277 VAC
  20 Amp ballast @ 347 VAC
  30 Amp resistive @ 347 VAC
  1.5 hp @ 120 VAC
- Eight universal switch inputs; compatible with 3-wire momentary or maintained, 2-wire momentary or maintained, or 24 VDC input
- Contactor Ratings for LP24: Ballast load 30Amp @ 600 V (magnetic, electronic, HID ballasts); Tungsten load 20 Amp @ 277 V; Resistive load 30 Amp @ 480 V; Motor load 5 hp @ 460 V, 3 phase
- Accessory power 800 mA at 24 VDC/VAC/VACR
- Four universal group switch inputs; allows pushbutton grouping of relays
- Ambient temperature 32-139°F (0-60°C); 5-95% RH noncondensing
- Dimensions: 31.38" x 23.88" x 4.62" (797.1mm x 605.5mm x 117.3mm) L x W x D
- UL and cUL listed; one-year warranty

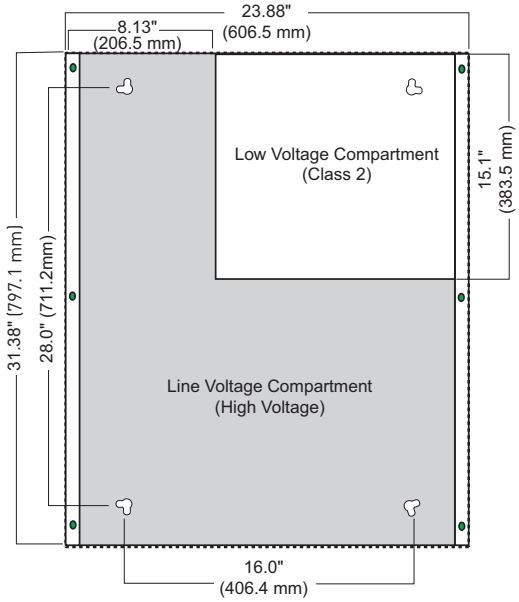
Wiring & Installation

LP24 Panel Layout



Shown with interior door open

LP24 Dimensions



Ordering Information

Catalog No.	Description	Door Mounting	# Relays	Group Switching Card	Voltage
☐ LP24S-8-115	LP24 Peanut Plus Lighting Control Panel	Surface	8 Relays	none	115/277 VAC
☐ LP24S-8-G-115	LP24 Peanut Plus Lighting Control Panel	Surface	8 Relays	included	115/277 VAC
☐ LP24S-8-347	LP24 Peanut Plus Lighting Control Panel	Surface	8 Relays	none	347 VAC
☐ LP24S-8-G-347	LP24 Peanut Plus Lighting Control Panel	Surface	4 Relays	included	347 VAC
☐ LP24F-8-115	LP24 Peanut Plus Lighting Control Panel	Flush	4 Relays	none	115/277 VAC
☐ LP24F-8-G-115	LP24 Peanut Plus Lighting Control Panel	Flush	8 Relays	included	115/277 VAC
☐ LP24F-8-347	LP24 Peanut Plus Lighting Control Panel	Flush	8 Relays	none	347 VAC
☐ LP24F-8-G-347	LP24 Peanut Plus Lighting Control Panel	Flush	8 Relays	included	347 VAC
☐ LP24S-4-115	LP24 Peanut Plus Lighting Control Panel	Surface	4 Relays	none	115/277 VAC
☐ LP24S-4-347	LP24 Peanut Plus Lighting Control Panel	Surface	4 Relays	none	347 VAC
☐ LP24F-4-115	LP24 Peanut Plus Lighting Control Panel	Flush	4 Relays	none	115/277 VAC
☐ LP24F-4-347	LP24 Peanut Plus Lighting Control Panel	Flush	4 Relays	none	347 VAC
Optional system enhancements:					
☐ EM-24A2	Exterior Photocell, low voltage				24VAC
☐ AS-100	Automatic Control Switch				120/277VAC
☐ DCC2	Decorator Low Voltage Momentary Switch				12 VAC/VDC, 24 V Rectified, 24 VAC/VDC

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