



PPK Power Pack Series Provides low voltage power and line voltage control for Encelium Occupancy Sensors

Containing both a 24VDC supply and a line voltage relay the Encelium compact Power Pack provides low voltage power and line voltage control for Encelium Occupancy Sensors.

The internal relay can control up to 20A for 120, 230, 277VAC or 347VAC ballast loads and 120VAC incandescent loads. The Power Pack conveniently mounts in a knockout hole of a standard junction box. The unit can be placed inside or outside the junction box with a simple twist-on nut.

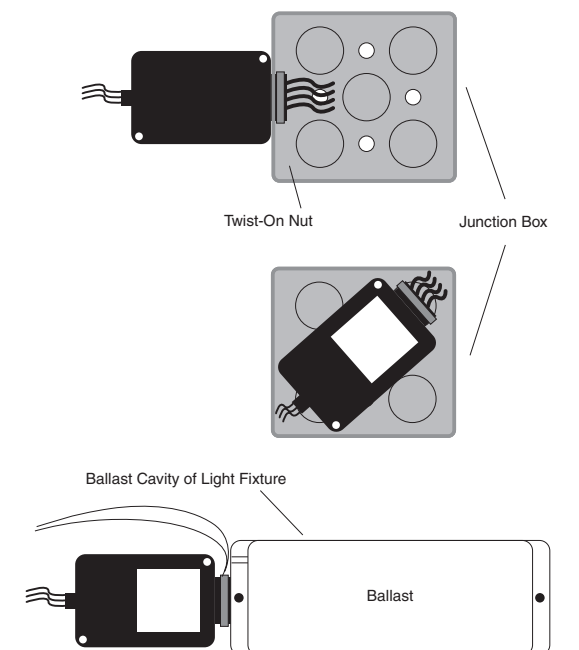
APPLICATIONS

Use an Encelium Power Pack with Encelium Occupancy Sensors in the following applications.

- Anywhere optimal lighting and energy savings are desired.
- Multi-circuit switching.
- Switch line-voltage loads under the control of low-voltage sensors.
- Increase the load-switching capacity of Encelium Universal I/O Modules.

PPK SERIES

EASY MOUNTING



PPK Series

FEATURES

PPK-020

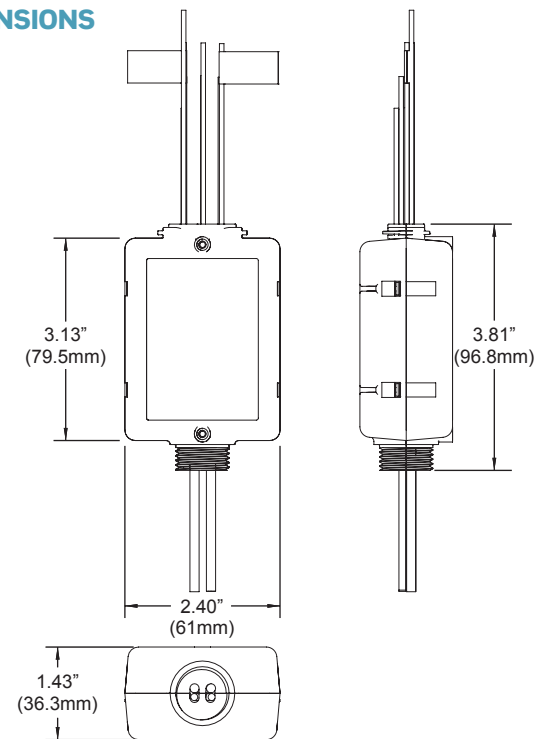
- Self-contained transformer and relay
- Internal voltage regulator - regulated 24VDC current, 150mA output
- Fast installation - mounts inside or outside junction box, or inside fluorescent ballast cavity with a simple twist-on nut
- Single or multiple luminaire control
- Zero crossing circuitry
- UL 2043 Plenum Rated
- Integrates seamlessly with Encelium Lighting Control System

PPK-347

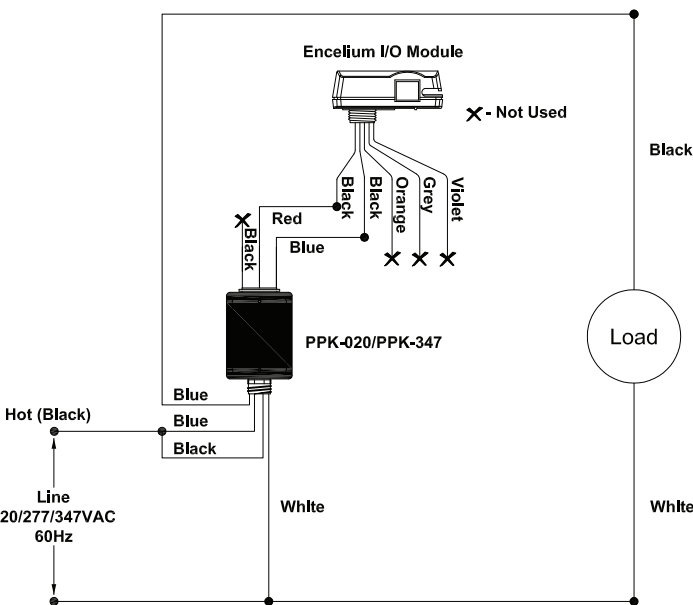
Includes the same features as the PPK-020, plus:

- Dry contact relay for combined sensor control of lighting and heating/air conditioning
- Dry contact for designing controlled closure
- Form A relay for interface to Building Automation/Management Systems (BAS/BMS)

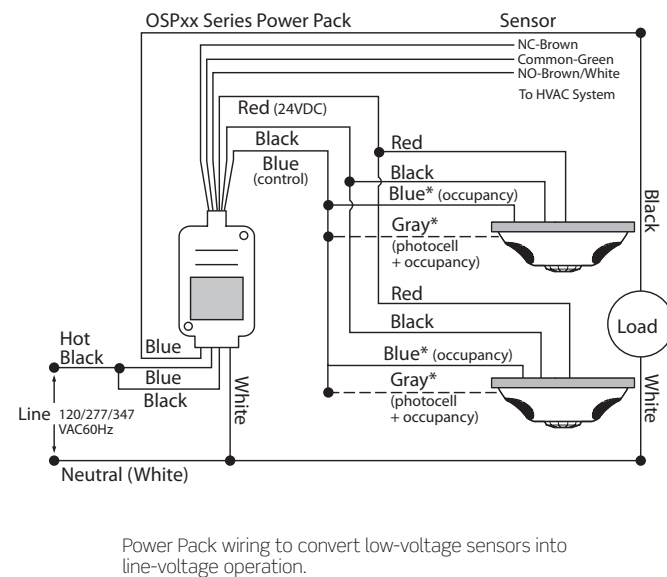
DIMENSIONS



PHYSICAL WIRING



Wiring to use Power Pack to increase the load-switching over an Encelium Universal I/O Module.



PPK Series

WIRING DESIGNATIONS

SIGNAL TYPE	COLOR	GAUGE
LINE VOLTAGE WIRES		
Line 120-277VAC	Black	18AWG
Neutral	White	18AWG
Load	Blue	14AWG
Load	Blue	14AWG
CLASS 2 WIRES		
Power (24VDC)	Red	22AWG
DC Return	Black	22AWG
Occupancy Auto-ON	Blue	22AWG

SIGNAL TYPE	COLOR	GAUGE
HVAC WIRES		
Dry Contact Common	Green	22AWG
Dry Contact NO (Normally Open)	Brown/White	22AWG
Dry Contact NC (Normally Closed)	Brown	22AWG

- All wires rated at 105°C, 600V insulation.
- Class 2 wires are Teflon jacketed, for plenum applications.
- Dry Contact wiring is Class 1 and Class 2 rated.

POWER PACK CAPACITY FORMULA

Encelium power packs can be used to provide power to one or more occupancy sensors. Since current consumptions of occupancy sensors may vary, the best way to ensure you order the correct number of power packs is by using this formula:

$$\begin{matrix} \# \text{ of sensor} \\ \text{Model As} \\ \times \\ \text{Sensor A current} \\ \text{consumption rating} \end{matrix} + \begin{matrix} \# \text{ of sensor} \\ \text{Model Bs} \\ \times \\ \text{Sensor B current} \\ \text{consumption rating} \end{matrix}$$

DESCRIPTION	CURRENT CONSUMPTION
SWP-HBAY, SWP-LRNG, SWP-WV00	15mA
SCP-0450, SCP-1500	20mA
SCM-500, SWM-1200	25mA
SCM-1000	35mA
SCM-2000	30mA

SPECIFICATIONS

ELECTRICAL	
Line Voltage	120-230-277 VAC
ENVIRONMENTAL	
Operating Temperature Range	32°F to 104°F (0°C to 40°C)
Relative Humidity	0% to 90% non-condensing, for indoor use only
OTHER	
Construction	Case: high impact, UL rated plastic Relay: class B (130°C) insulating material; silver alloy contacts Wire: 6" leads, 18AWG input; LV connections: 7" leads 22AWG
Dimensions	2.400"H x 3.811"W x 1.432"D (60.96mm x 96.80mm x 36.37mm)
Listings	UL/CUL Listed, FCC Certified, and meets ASHRAE 90.1 requirements
Warranty	Limited Five-Year Warranty

ORDERING INFORMATION

DESCRIPTION	CAT. NO.	POWER INPUT	RELAY RATING	CONTROL INPUT	POWER SUPPLY OUTPUT
Power Pack	PPK-020	120-277VAC, 50/60 Hz	20A fluorescent/incandescent @ 120V, 20A fluorescent @ 230-277V; 1HP @ 120V, 2HP @ 240V	5mA, 24VDC	150mA, 24VDC
Power Pack with Dry Contact Relay	PPK-347	347VAC, 60 Hz	15A fluorescent @ 347V; 1HP @ 120V, 2HP @ 240V; HVAC: 0.5A @ 120VAC, 1A @ 30VDC	5mA, 24VDC	120mA, 24VDC

* Consult factory for other models.