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#### PP and UPP Series Power Packs

PP and UPP\* Series Power Packs provide both the 24 V== power supply to operate Lutron® wired occupancy sensors, as well as the 16 A line-voltage relay to control the load, in one compact housing. The unit can be mounted inside a ballast enclosure or inside/outside a junction box.

The manual-ON Power Pack (-DV-M) is used to provide a vacancy solution when paired with Lutron® wired occupancy sensors. A low-voltage momentary switch should be used to manually turn ON the load while the sensor automatically shuts the load OFF when unoccupied. Pressing the momentary switch can also turn the load OFF.

The auxiliary Power Pack (-SH) must be used in conjunction with at least one line-voltage Power Pack and one Lutron wired occupancy sensor to switch additional loads.

#### **Features**

- High-impact UL94 flammability-rated plastic case construction
- Relay: Class B 266 °F (130 °C) insulating material; silver alloy contacts
- Complies with requirements for use in a compartment handling environmental air (plenum) per NEC<sub>®</sub> 2011 300.22(C)(3)
- Power Pack units (PP-DV/UPP-DV, PP-347H, PP-DV-M/UPP-DV-M) power up to 3 total devices.
   PP-SH/UPP-SH counts as 1 device, each occupancy sensor counts as 1 device.
- $\bullet$  For indoor use only, 32 °F to 104 °F (0 °C to 40 °C), 0% to 90% humidity, non-condensing





Model	Power Input	Relay Contact Rating	Control Input	IEC PELV/ NEC®
				Class 2 Output
PP-DV	120-277 V∼	• 120-277 V∼ 16 A;	24 V== 5 mA	24 V=== 150 mA
UPP-DV	50/60 Hz	All lighting loads**		up to 3 Devices ***
PP-DV-M	6.5 W	• 120-277 V ~ 1 HP Motor Load		
UPP-DV-M				
PP-347H	347 V∼ 60 Hz	• 347 V~ 15 A Ballast	24 V== 5 mA	24 V=== 100 mA
	6.5 W			up to 3 Devices ***
PP-SH	24 V===	● 120-277 V~ 16 A;	24 V== 5 mA	N/A
UPP-SH	(At least one	All lighting loads**		
	line-voltage Power	• 120-277 V ~ 1 HP Motor Load		
	Pack must be used)			

<sup>\* &</sup>quot;U" denotes BAA compliance

<sup>\*\*</sup> Lighting loads include (but are not limited to): Incandescent, MLV, ELV, Resistive, Inductive

<sup>\*\*\*</sup> PP-SH/UPP-SH counts as 1 device and each occupancy sensor counts as 1 device

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# **Specifications**

#### **Regulatory Approvals**

- UL® and cUL® Listed
- Complies with requirements for use in a compartment handling conditioned air (plenum)

#### Power / Performance

- PP-DV, UPP-DV, PP-DV-M, UPP-DV-M:
  120-277 V∼ 50/60 Hz
- PP-347H: 347 V ∼ 60 Hz only

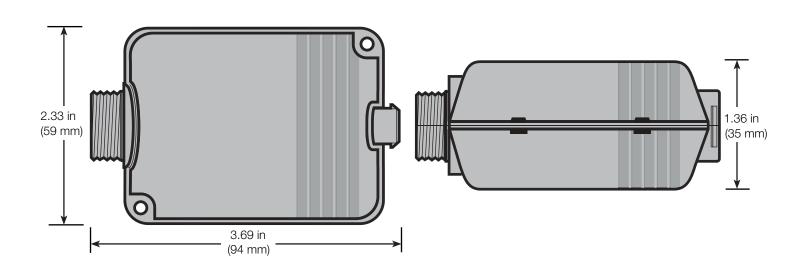
### Wiring

• 7 in (178 mm) wire leads, 18 AWG (0.75 mm²) input; 7 in (178 mm) leads, 16 AWG (1.5 mm²) contacts.

### Mounting

- Fits inside standard 4 in x 4 in (102 mm x 102 mm) junction box or standard fluorescent fixture ballast cavity
- Mount with 6/32 in (5 mm) x 1½ in (32 mm) pan head screws
- Mounts inside junction box through knockout, with 1/2 in (13 mm) Electrical Metallic Tubing (EMT) threaded nipple. Recommended volume is 30 in<sup>3</sup> (762 mm<sup>3</sup>).

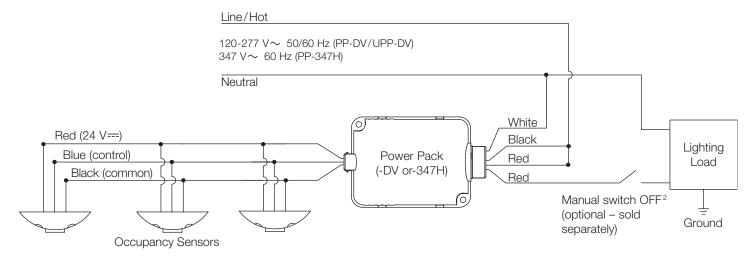
#### **Dimensions**



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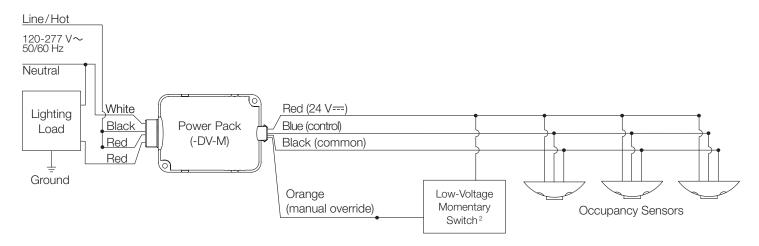
# Wiring

#### 3 Sensors with Power Pack (PP-DV, UPP-DV or PP-347H)1



- <sup>1</sup> Maximum 3 occupancy sensors can be used with PP-DV/UPP-DV or PP-347H.
- <sup>2</sup> When lights are manually turned off, switch must be returned back to the on position for occupancy sensors to function as set.

#### 3 Sensors with Power Pack - Vacancy Solution (PP-DV-M, UPP-DV-M)1



Maximum 3 devices (excluding low-voltage momentary switches) can be used with PP-DV-M/UPP-DV-M. Each PP-SH/UPP-SH counts as one device, each occupancy sensor counts as one device.

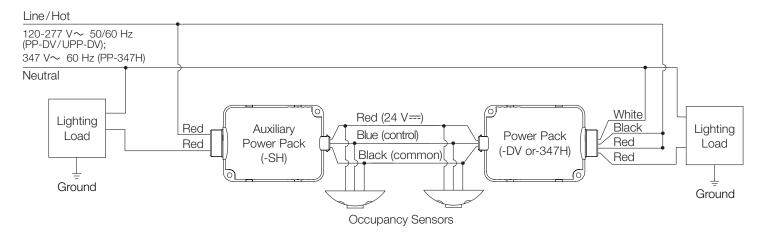
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<sup>&</sup>lt;sup>2</sup> NTRCS-1 (Nova T<del>\*</del> momentary switch) or any low voltage momentary switch rated for at least 24 V==-, 100 mA.

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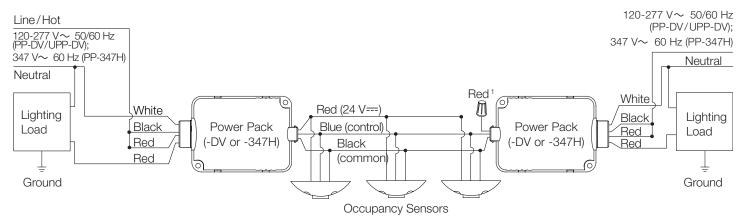
# Wiring (continued)

#### Switching Multiple Loads with 1 Power Pack and 1 Auxiliary Power Pack<sup>1</sup>



Maximum of 3 devices can be used with PP-DV, UPP-DV, or PP-347H. Each PP-SH/UPP-SH counts as one device, each occupancy sensor counts as one device.

### Switching Multiple Loads with 2 Power Packs (PP-DV/UPP-DV)



<sup>1</sup> Only 1 Power Pack (PP-DV/UPP-DV) should power the occupancy senors. This 24 V==- output is left disconnected.