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 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.

(-DV)
(-DV-M)
(-347H)

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® 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.
- For indoor use only, 32 °F to 104 °F (0 °C to 40 °C), 0% to 90% humidity, non-condensing

(-SH)

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

* "U" denotes BAA compliance
** Lighting loads include (but are not limited to): Incandescent, MLV, ELV, Resistive, Inductive
*** PP-SH/UPP-SH counts as 1 device and each occupancy sensor counts as 1 device

☀LUTRON® SPECIFICATION SUBMITTAL   Page

Job Name:	Model Numbers:
Job Number:	

Specifications

Regulatory Approvals

- 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
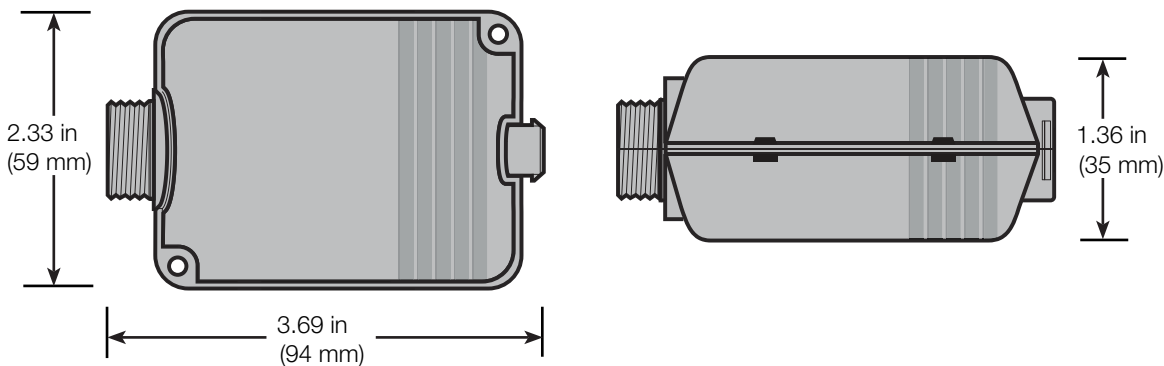- PP-347H: 347 V∼ 60 Hz only

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
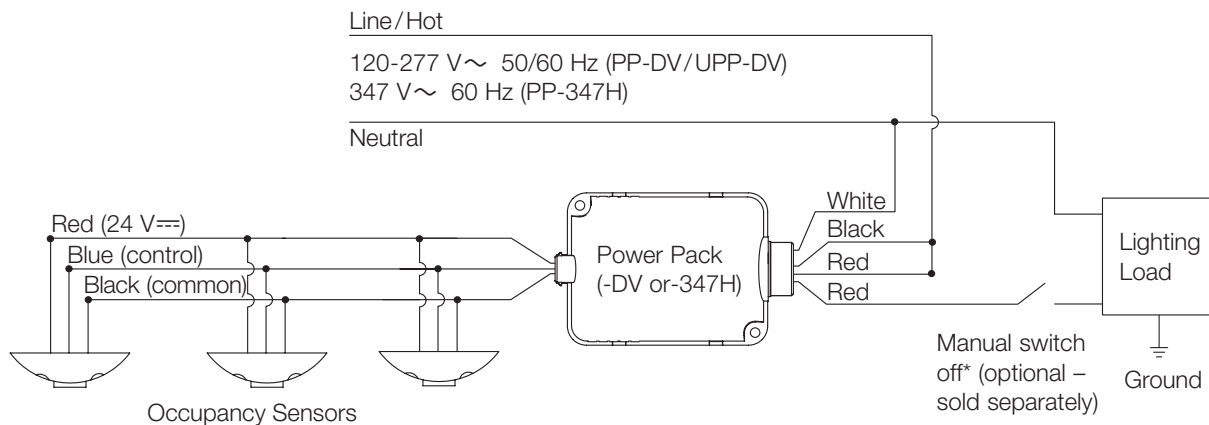
- Fits inside junction box or standard fluorescent fixture ballast cavity
- Mount with 6/32 in (5 mm) x 1¼ in (32 mm) pan head screws
- Mounts to standard 4 in x 4 in (102 mm x 102 mm) junction box through knockout, 30 in³ (762 mm³) recommended, with 1/2 in (13 mm) Electrical Metallic Tubing (EMT) threaded nipple.

Dimensions

2.33 in (59 mm)

3.69 in (94 mm)

1.36 in (35 mm)

Wiring

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

Line/Hot

120-277 V∼ 50/60 Hz (PP-DV/UPP-DV)
347 V∼ 60 Hz (PP-347H)

Neutral

Red (24 V⎓)
Blue (control)
Black (common)

Power Pack (-DV or-347H)

White
Black
Red
Red

Lighting Load

Manual switch off* (optional – sold separately)

Ground

Occupancy Sensors

Note: Maximum 3 occupancy sensors can be used with PP-DV/UPP-DV or PP-347H.

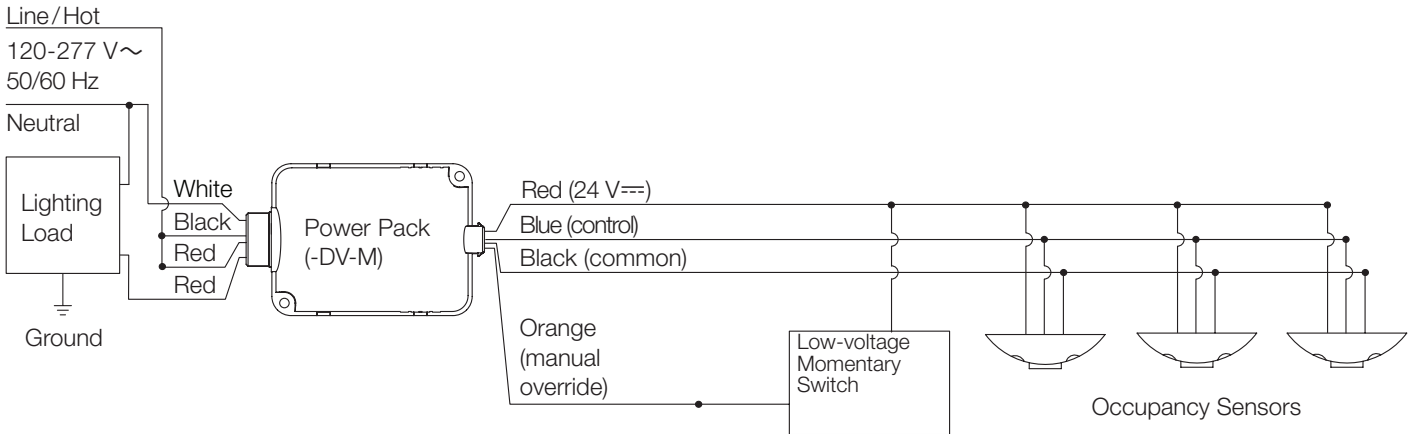* When lights are manually turned off, switch must be returned back to the on position for occupancy sensors to function as set.

Wiring *(continued)*

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

Line / Hot
120-277 V∼
50/60 Hz

Neutral

Lighting Load

Ground

White
Black
Red
Red

Power Pack (-DV-M)

Red (24 V⎓)
Blue (control)
Black (common)

Orange (manual override)

Low-voltage Momentary Switch

Occupancy Sensors

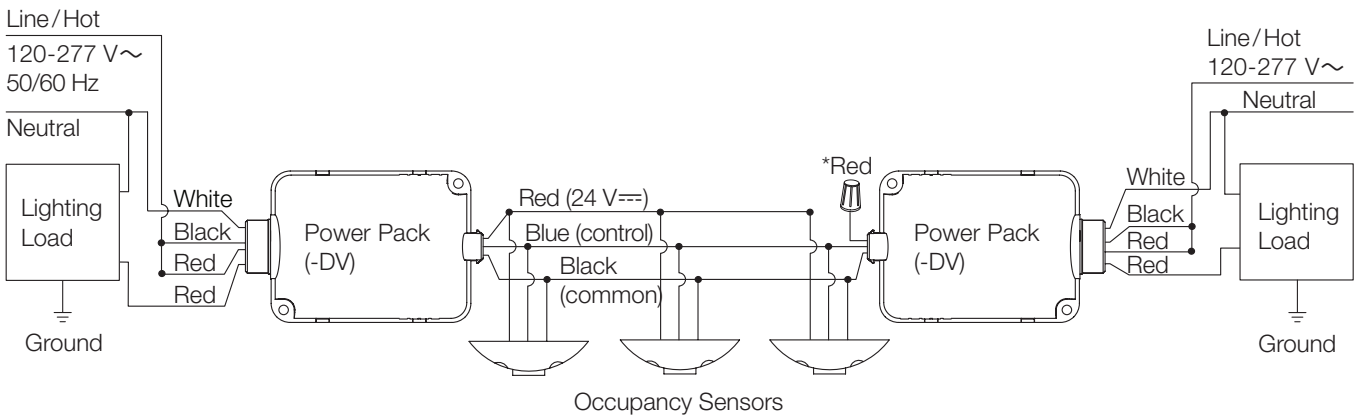**NOTE:** Maximum of 3 devices can be used with PP-DV-M / UPP-DV-M. Each PP-SH / UPP-SH counts as 1 device, each occupancy sensor counts as 1 device.

Switching Multiple Loads with 1 Power Pack and 1 Auxiliary Power Pack

Line / Hot
120-277 V∼ (-DV)
50/60 Hz;
347 V∼ 60 Hz (-347H)

Neutral

Lighting Load

Ground

Red
Red

Auxiliary Power Pack (-SH)

Red (24 V⎓)
Blue (control)
Black (common)

Power Pack (-DV or -347H)

White
Black
Red
Red

Lighting Load

Ground
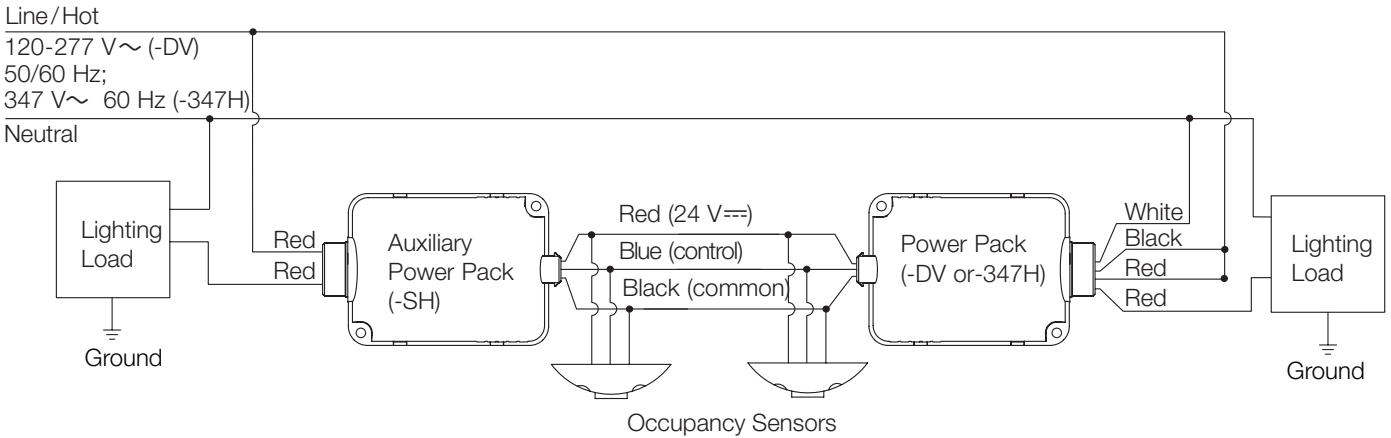
Occupancy Sensors

NOTES: Maximum of 3 devices* can be used with PP-DV, UPP-DV, or PP-347H.
* PP-SH / UPP-SH counts as 1 device, each occupancy sensor counts as 1 device.

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

Line / Hot
120-277 V∼
50/60 Hz

Neutral

Lighting Load

Ground

White
Black
Red
Red

Power Pack (-DV)

Red (24 V⎓)
Blue (control)
Black (common)

*Red

Power Pack (-DV)

Line / Hot
120-277 V∼

Neutral

White
Black
Red
Red

Lighting Load

Ground

Occupancy Sensors

* Only 1 Power Pack (PP-DV / UPP-DV) should power the Occupancy Senors. This 24 V⎓ output is left disconnected.

Job Name:	Model Numbers:
Job Number:	