

# Power Pack Series

# OSP Power Pack OSA Add-A-Relay

The internal relay can control up to 20 amps at either 120, 230, or 277 VAC ballast load, 15 amp for 347 VAC ballast load.

### OSP SERIES FEATURES

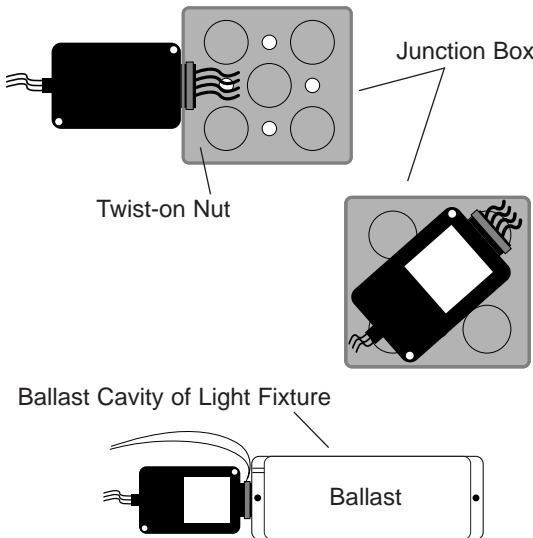
- Self-contained Transformer & Relay
- Regulated 24 VDC current, 150 mA output
- Mounts Inside or Outside Junction Box, or Inside Fluorescent Ballast Cavity
- Fast Installation
- Single or Multiple Luminaire Control
- Companion ADD-A-Relay provides additional capacity
- HVAC Relay Option
- Zero crossing circuitry provides increased durability

### GENERAL OPERATION

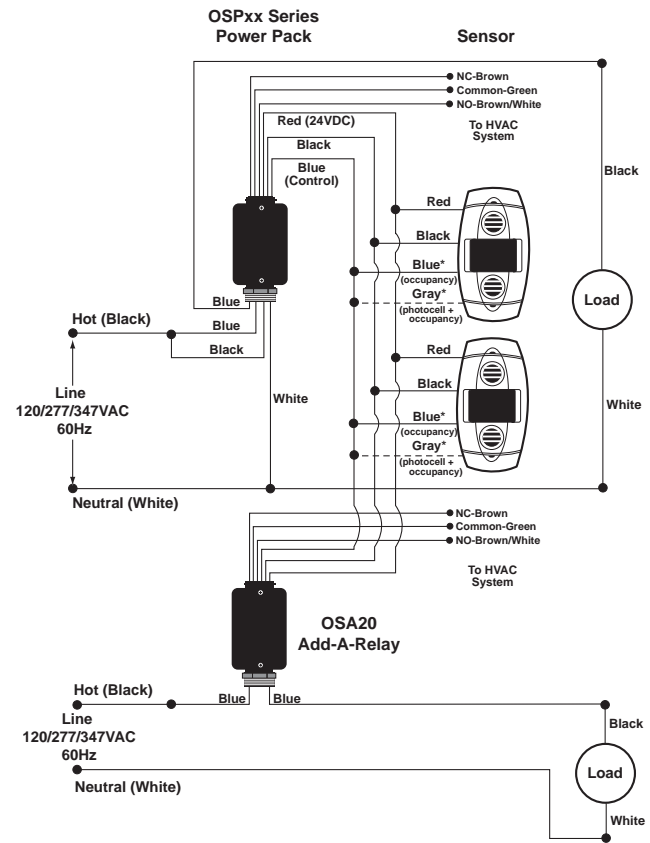
Containing both a 24 VDC supply and a 20 amp line voltage relay for most models, this compact power pack will provide the low voltage power and the line voltage control for Leviton occupancy sensors. The OSP Power Pack Series is also used to supply power to the OSA, the add-a-relay model.

### COMPACT SIZE, EASY MOUNTING

The Power Pack mounts in the knock-out hole of a junction box. The unit can be placed outside or inside the box with a simple twist-on nut.



### SENSOR WIRING



\*When the photocell function is not being used, connect the Blue Occupancy Sensor lead to the Blue Power Pack lead. When using the Photocell function, connect the Gray Occupancy Sensor lead to the Blue Power pack lead—Do not use the Blue Occupancy Sensor lead for the photocell function.

### LEVITON SPECIFICATION SUBMITTAL

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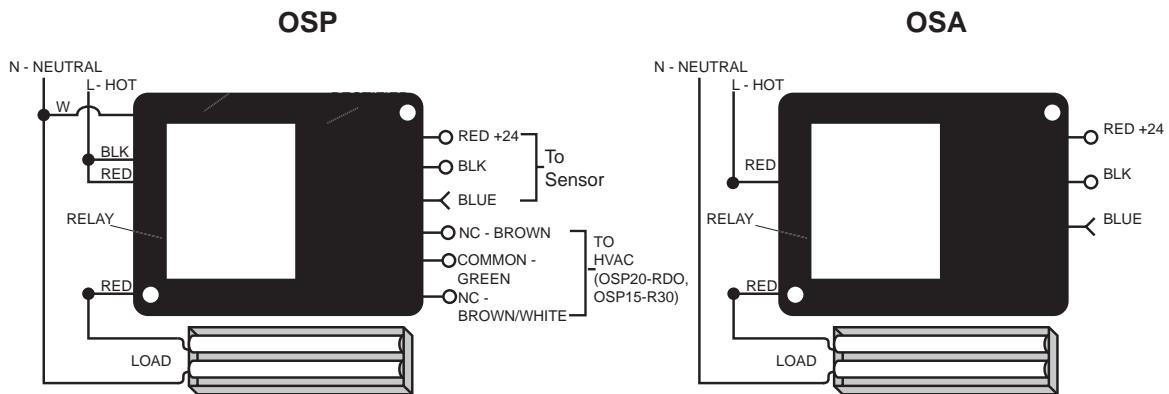
# Power Pack Series

# OSP/OSA

## PRODUCT SPECIFICATIONS

Models					
Part Number	Power Input	Rating	Control Input	Power Output	HVAC Relay Option
001-OSP20-0DO	120/220/277VAC, 60HZ	20A	24VDC, 5mA	24VDC, 150Ma	
002-OSP20-RDO	120/220/277VAC, 60HZ	20A	24VDC, 5mA	24VDC, 150Ma	✓
002-OSP15-R30	347VAC, 60HZ	15A	24VDC, 5mA	24VDC, 120Ma	✓
002-OSA20-R00	N/A	15A	24VDC, 5mA	N/A	

## WIRING



**Wiring Tip:** For best operation, wire the power pack to the continuously power-on line, before the wall switch. This keeps the detector powered even if the switch is off.  
Note: OSA needs +24VDC Input from an OSP in order to operate.

## SPECIFICATIONS

### Construction:

Case -- High impact, UL rated plastic. Relay -- Class B (130°C) insulating material. Silver alloy contacts Switching power supply-- 120/230/277VAC. Wire -- 6" leads 14 AWG input, LV connections: 7" leads 22 AWG.

**Length:** 3.811" x Width 2.400" x Depth 1.432"

**Color:** Black.

**Power Requirements:** 120, 277 or 347 VAC (depending upon model number) @ 60Hz. - OSP Series. OSA: 50 MA@24VDC

**Output:** 24 VDC. 150 mA nominal, full-wave rectified and filtered, unregulated. (Each Leviton sensor contains an internal voltage regulator.)

### Relay Contact Rating:

20 A -- 120/230/277V Fluorescent Ballast, Incandescent 15 A -- 347V Fluorescent Ballast

**Operating Environment:** 32°F to 104°F (0°C to 40°C); 0% to 90% non-condensing, relative humidity. For indoor use only.

**Warranty:** Five years.

**Optional:** HVAC Relay 0.5A 125 VAC 1.0A 30 VDC



## Power Pack Capacity Formula

Leviton 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 and add-a-relays is by using this formula:

$$\left[ \begin{array}{l} \# \text{ of sensor} \\ \text{Model As} \\ \times \\ \text{Sensor A current} \\ \text{consumption rating} \end{array} \right] + \left[ \begin{array}{l} \# \text{ of sensor} \\ \text{Model Bs} \\ \times \\ \text{Sensor B current} \\ \text{consumption rating...} \end{array} \right] + \left[ \begin{array}{l} \# \text{ of Add a} \\ \text{Relays} \\ \times \\ 50\text{mA} \end{array} \right] \leq 150\text{mA} \text{ per power pack}$$

SENSOR	CURRENT CONSUMPTION
OSC04-I, OSC15-I, OSWHB-I, OSWLR-I, OSWWV-I	20mA
OSC05-M, OSC05-U, OSW12-M	30mA
OSC20-M, OSC20-U	32mA
OSC10-M, OSC10-U	40mA
OSA20-R00 Add a Relay	50mA

## LEVITON SPECIFICATION SUBMITTAL

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