

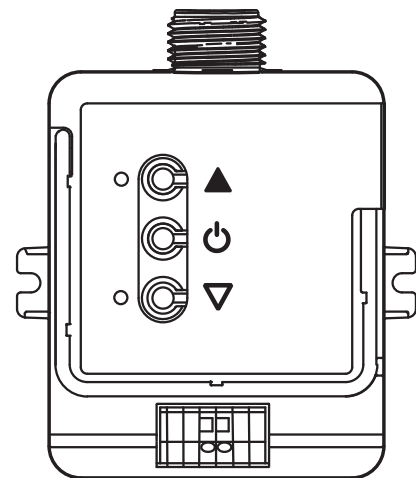
## Vive PowPak Fixture Controls

The PowPak wireless fixture control is a radio-frequency (RF) device that controls either the Lutron EcoSystem or 0–10 V $\overline{\text{ac}}$  electronic fluorescent ballasts and LED drivers (depending on model). This is based on RF input from Pico remote controls, Radio Powr Savr wireless sensors, or wired inputs from the PowPak fixture sensor. The control module mounts to a fixture or a U.S.-style junction box. Communication with RF input devices is accomplished using Lutron Clear Connect RF Technology. See **Applications and Selecting the Right Control** for more details on selecting the appropriate controls for your application.

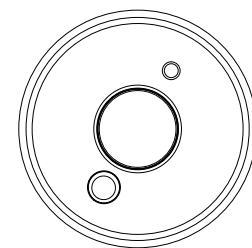
The PowPak fixture sensor (optional) mounts to the ceiling or to a fixture and measures light in the space (daylighting) while detecting people moving within an area to determine passive infrared occupancy. The sensor controls the lights to balance light level in the space, combining convenience, exceptional energy savings, and ease of installation. The sensor contains two wires which connect to the PowPak wireless fixture control.

These products are also compatible with the Vive hub which enables a simple setup process using a standard web browser on any Wi-Fi $\text{\textsuperscript{®}}$  enabled phone, tablet or computer. It also enables control and monitoring of all Vive devices. The Vive hub can be added at any time. System reprogramming will be required. For a complete list of features supported with the Vive hub, see specification submittal 369902 at [www.lutron.com](http://www.lutron.com)

**Note for Replacement:** FCJS - the “S” model can replace the non-“S” model.



PowPak Wireless Fixture Control



PowPak fixture sensor

### Models Available

Model Number	Description
FC-SENSOR	PowPak fixture sensor (occupancy)
FC-VSENSOR	PowPak fixture sensor (vacancy) <sup>1</sup>
FCJS-010 <sup>2</sup>	PowPak wireless fixture control for 0-10 V $\overline{\text{ac}}$ ballasts and drivers
FCJS-ECO <sup>3</sup>	PowPak wireless fixture control for EcoSystem ballasts and drivers
FCJS-010-EM	Emergency PowPak wireless fixture control for 0-10 V $\overline{\text{ac}}$ ballasts and drivers
FCJS-ECO-EM	Emergency PowPak wireless fixture control for EcoSystem ballasts and drivers

<sup>1</sup> Lights do not turn on automatically with a vacancy sensor. A Pico remote control is needed to turn on the lights.

<sup>2</sup> For a bulk pack of 8 pieces, order FCJS-010-BULK8.

<sup>3</sup> For a bulk pack of 8 pieces, order FCJS-ECO-BULK8.

<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	

## Applications and Selecting the Right Control

### Suggested applications:

#### PowPak Fixture Sensor:

- Great for individual control in cubicles
- Maximize energy savings (fixtures in unoccupied spaces do not turn on)
- Simplifies the determination of what's needed for a job

#### Radio Powr Savr Sensors:

- Cover large areas with a single sensor
- Sensor can mount anywhere in the space
- Fixtures assigned to Radio Powr Savr occupancy sensors turn on and off together
- In order to have a row of fixtures dim up or down together in response to daylight, a Radio Powr Savr daylight sensor must be used

### Daylighting:

#### Radio Powr Savr vs. PowPak Fixture Sensor

PowPak wireless fixture controls have two options for daylighting. The PowPak fixture sensor can be used for simple, out-of-the-box daylighting. The Radio Powr Savr wireless daylight sensor can be added for the ability to adjust and fine tune daylighting settings.

- Radio Powr Savr daylight sensors provide the ultimate flexibility in daylighting: target light level (tuning) and gain value (through calibration) can be adjusted independently. Daylighting rows/zones can be setup so that multiple fixtures dim in unison (also known as "grouping"). Radio Powr Savr daylight sensors can be placed anywhere since they are completely wireless, and performance can be optimized through placement and fine tuning.
- PowPak fixture sensors are an easy way to add simple daylighting to a localized area without requiring setup. PowPak fixture sensors are quick to install with a two-wire connection, and calibrate automatically. Each PowPak fixture sensor should be mounted within 2 ft (0.6 m) of the fixture it is controlling.

<p>Job Name:</p>  <p>Job Number:</p>	<p>Model Numbers:</p>
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## Specifications

### PowPak Fixture Sensor

#### Regulatory Approvals

- FC-SENSOR, FC-VSENSOR:
  - cULus Listed
- Complies with requirements for use in other spaces used for environmental air (plenums) per NEC® 2014 300.22(C)(3)

#### Power/Load

- Operating voltage: 12 V<sub>DC</sub>
- Operating current: 25 mA
- IEC SELV/NEC® Class 2

#### Environmental

- Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0%–90% humidity, non-condensing; indoor use only

#### Warranty

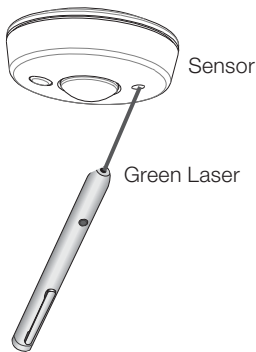
- 5 Year Limited Warranty. For additional Warranty information, please visit: [www.lutron.com/TechnicalDocumentLibrary/Sensor\\_Warranty.pdf](http://www.lutron.com/TechnicalDocumentLibrary/Sensor_Warranty.pdf)

#### Wiring

- Sensor wires are IEC SELV/NEC® Class 2 rated

#### Settings

- Occupancy sensor timeout (fixture sensor): 15 minutes
- Utilizes a green laser pointer (by others, not a Lutron product) to associate Pico remote controls and Radio Powr Savr sensors to PowPak wireless fixture controls via RF. See Lutron Application Note #407 (P/N 048407 at [www.lutron.com](http://www.lutron.com)) for more information.
  - Green laser specifications:
    - Wave output: constant
    - Wavelength: 532 nm
    - Output power: 5 mW maximum
- 2-wire connection between a PowPak fixture sensor and a PowPak wireless fixture control
  - The wires are interchangeable to eliminate miswiring
  - The sensor comes with 2 ft (0.6 m) of wires
  - If hanging pendant fixtures, the maximum wire length between fixture sensor and fixture control is 12 ft (3.7 m). Sensor should be mounted no more than 2 ft (0.6 m) from the fixture.



**WARNING**



**DANGER**

**Eye injury and/or blindness hazard;** avoid direct eye exposure to laser beam.

- Use of laser pointer is NOT recommended for use with Lutron products located near reflective surfaces.
- Do NOT aim or shine laser pointers at any person, pet, vehicle, or aircraft directly, or through reflection by mirrors or other shiny surfaces. Do NOT view the laser beam through binoculars, magnifying glass, or other optical devices.
- Do NOT allow children to use laser pointers.
- **Read and follow the laser pointer manufacturer's instructions on safe use.** In the event of injury, get medical attention immediately.

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