PowPak® Fixture Controls Installation

Part of the Energi TriPak_® Family

| 041507 Rev. A 09/2015 | Please read before insta | llir |
|-----------------------------|---|------|
| FCJS-010 | 120-277 V \sim 50/60 Hz 1 A switching | |
| 0–10 V=== | 6 mA sink/source | |
| FCJS-ECO | 120-277 V \sim 50/60 Hz 1A switching | |
| Lutron® | | |

14 V== 6 mA

PowPak® Wireless Fixture Control

UL 2043 Plenum Rated

EcoSystem®

Controls up to 3 ballasts or drivers (IEC 60929 Annex E.2 requires each ballast or driver to limit the sink/source current draw to 2.0 mA maximum).

Provides IEC SELV/NEC₀ Class 2, 12 V==, 25 mA to a PowPak₀ fixture sensor (FC-SENSOR or FC-VSENSOR)

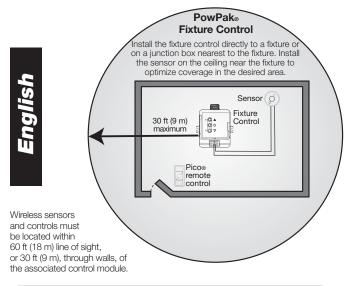
★ For set-up, programming, and troubleshooting with a Vive™ system, please refer to the installation instructions included with the Vive™ hub or at www.lutron.com

Note for Replacement:

FCJS - the "S" model can replace the non-"S" model

Important Notes:

- For installation by a qualified electrician in accordance with all local and national electrical codes.
- Use copper conductors only.
- · Check to see that the device type and rating is suitable for the application.
- DO NOT install if product has any visible damage.
- If moisture or condensation is evident, allow the product to dry completely before installation
- Operate between 32 °F and 104 °F (0 °C and 40 °C), ambient.
- 0% to 90% humidity, non-condensing.
- For indoor use only.



Default Functionality

Wireless Controls: All lights

On: 100%; Favorite: 50%; Off: 0%

Fixture Controls

Auto On level: FC-SENSOR only

(not applicable for FC-VSENSOR)

Varies with ambient light level when occupancy is triggered (e.g., 100% for a dark room, 10% for a bright room).

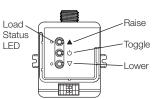
Timeout period: 15 minutes

For more information, see www.lutron.com/TechnicalDocumentLibrary/369866.pdf

Required Components

For each fixture, you will need:

One Fixture Control



PowPak, Wireless Fixture Control (FCJS-010 or FCJS-ECO)

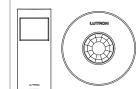
PIR Lens Daylight Lens Detection

PowPak_® Fixture Sensor (FC-SENSOR or FC-VSENSOR) (1 maximum)

Notes:

At least one of these transmitters (22 total allowed)

- . Fixture control can be used without a fixture sensor as long as at least one Radio Powr Savr™ sensor or Pico_® remote control is used.
- 2. Only one fixture control can be used per fixture sensor, and only one fixture sensor can be used per fixture control.



Radio Powr Savr™ Occupancy/Vacancy Sensor (10 maximum

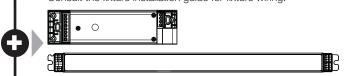


Radio Powr Savr Daylight Sensor (1 maximum)



Pico_® Remote Control (10 maximum)

FCJS-010: At least one 0-10 V Fluorescent Ballast or LED Driver FCJS-ECO: At least one Lutron® EcoSystem® Ballast or LED Driver Consult the fixture installation guide for fixture wiring.

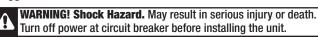


6 mA maximum for the control lines. Switches up to 1 A total (or maximum 3 ballasts or drivers). May be pre-installed in fixture.

Start Here

Install Fixture Control and Optional Fixture Sensor

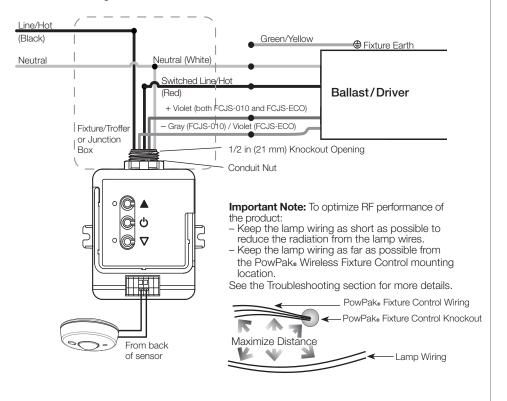
Suggested Installation Location: Close to the Fixture/Troffer.



electric codes for proper installation.

The fixture control can be installed on a fixture/troffer, junction box or marshalling box using the conduit nut (provided) or with mounting screws (not provided). Please consult local and national

- A Ideally, mount the sensor to the ceiling tile close to the fixture using the wireform or using the adhesive strip (included). The two communication wires from the sensor attach to the fixture control stab-in connectors. The wires are interchangeable to eliminate miswiring.
- **B** Once installed, energize the control module. The fixture will turn on.



2 Associate Transmitters to Fixture Control*

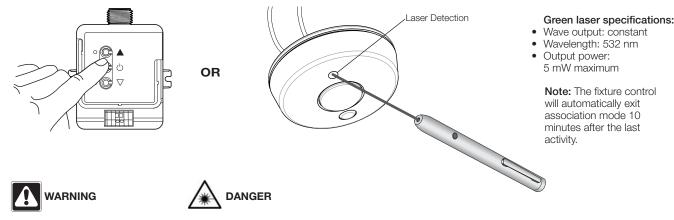
Before beginning this step, make sure that there are no other fixture controls being set up in the building which are currently in association mode. It is possible that wireless transmitters from other systems can be incorrectly associated to this module.

- A Initiate association mode on the fixture control in one of two ways:
 - 1 Press and hold the **Toggle** button " ϕ " for 6 seconds on the fixture control until the load attached to the fixture control starts flashing (every 2 seconds).

Technical Assistance | 1.800.523.9466 USA, Canada, and the Caribbean | +44.(0)20.7702.0657 Europe | +1.610.282.3800 Others | www.lutron.com

2 Alternatively, shine a green laser pointer (available at hardware or office supply stores) at the laser detection hole on the sensor until the load attached to the fixture control starts flashing (every 2 seconds).

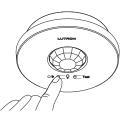
Note: Multiple fixture controls can be placed into association mode by repeating one of the two above methods for the next fixture control prior to moving to Step 2B.

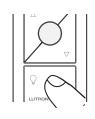


Eye injury and/or blindness hazard; avoid direct eye exposure to laser beam.

- 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.
- **B** Hold the indicated button on each transmitter for 6 seconds. The fixture will flash to show that wireless transmitters have been associated. Alternatively, for Radio Powr Savr™ occupancy/vacancy and daylight sensors, the green laser pointer can be used. See Application Note #407 on www.lutron.com for more information. To associate another transmitter, repeat steps 2A and 2B.







- 1. Control wires (Violet/Gray for FCJS-010 or Violet/Violet for FCJS-ECO) can be run as either Class 1 or Class 2.
- 2. 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.
- 3. To install unit inside a junction box, please see Application Note 423 on www.lutron.com
- 4. The fixture control needs to be accessible for some programming steps. Record where it is mounted so that it can be easily located later.
- 5. When using a Radio Powr Savr™ daylight sensor in conjunction with both a PowPake wireless fixture control and PowPake fixture sensor, the Radio Powr Savr™ daylight sensor will provide the daylighting input to the control module, and the PowPake fixture sensor daylighting input will be ignored.
- 6. When using a Radio Powr Savr™ occupancy sensor in conjunction with both a PowPake wireless fixture control and PowPake fixture sensor, occupancy data from both sensors is used; either one detecting occupancy will turn the lights on, and the lights turn off only when both sensors have gone vacant (no longer detect occupancy).
- 7. For more information on the PowPake fixture sensor, see: Document 369866 or 048556 on www.lutron.com

For FC-SENSOR and FC-VSENSOR installation guide visit www.lutron.com

