Project 37 | Installation

Part of the Energi TriPak® Family

041467 Rev. A 07/2014

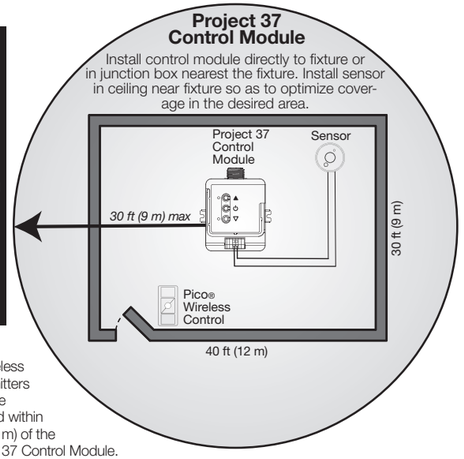
FC-1 (Project 37 Control Module) UL 2043 Plenum Rated	**120–277 V~ 50/60 Hz 1 A**
FC-0 (Project 37 Sensor)	**12 V⎓ 25 mA**

Control: 0–10 V⎓ 6 mA

Important Notes: ***Please read before installing.***
For installation by a qualified electrician in accordance with all local and national electrical codes.

- **Note:** 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 0 °C and 40 °C, ambient.
- 0% to 90% humidity, non-condensing.
- For indoor use only.

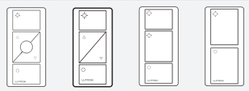
English



All Wireless Transmitters must be installed within 30 ft (9 m) of the Project 37 Control Module.

Default Functionality

Wireless Controls

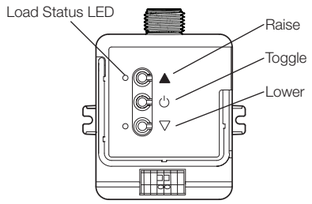


On	All lights 100%
Favorite	All lights 50%
Off	All lights off

Required Components

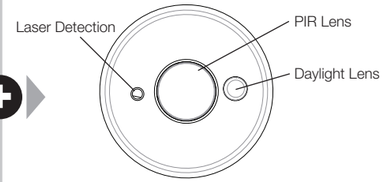
For each fixture, ensure that you have:

One Project 37 Control Module

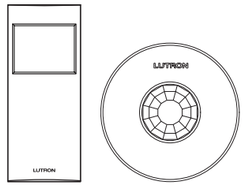


Project 37 Control Module with 0–10 V

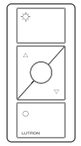
At least one Sensor or Pico® Wireless Control



Project 37 Occupancy/Vacancy and Daylight Sensor (1 maximum)
Note: Project 37 Control Module can be used without a Sensor



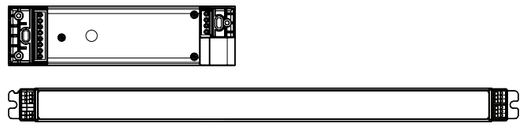
Radio Powr Savr™ Occupancy/Vacancy Sensor (10 maximum)



Pico® Wireless Control (10 maximum)

At least one 0–10 V Fluorescent Ballast or LED Driver

Consult third-party 0–10 V fixtures installation guide for fixture-specific wiring.



6 mA maximum for the control lines. Switches up to 1 A total. May be pre-installed in light fixture.

Start Here

1 Install Project 37 Control Module and Sensor

Suggested Installation Location: Close to the Fixture/Troffer.

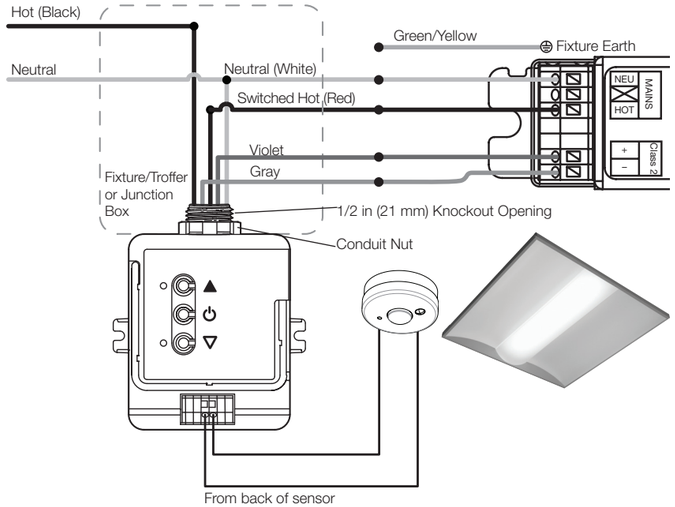
WARNING! Shock Hazard. May result in serious injury or death. Turn off power at circuit breaker before installing the unit.

The Project 37 Control Module can be installed in a fixture/troffer, junction box or marshalling box using the conduit nut (provided) or with mounting screws (not provided). Please consult local and national electric codes for proper installation.

If installing unit inside a junction box, please see Application Note #423 at www.lutron.com/TechnicalDocumentLibrary/048423.pdf

B Ideally mount the sensor to the ceiling tile close to the fixture using the wire form or using the command strips (included). The 2 communication wires from the sensor attaches to the control module poke in connectors.

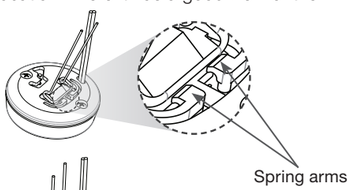
C Once installed, energize the Project 37 Control Module.



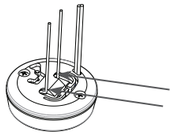
2 Install the Sensor

The Project 37 sensor mounts to the ceiling surface with a supplied wireform clip. Two wires connect to the control module and can either be routed through a hole in the ceiling or across the ceiling surface. DO NOT install on ceilings higher than 12 ft (3.7 m). The sensor should be installed in a location where it has a good view of the space that it is meant to cover.

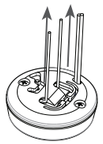
A Slide closed end of wire form under the two retention arms on the back of the sensor



B While continuing to push against the retention arms, rock the other side of the wireform down against the sensor and slide them into place under the loop retention features



C Push wireform through tile and bend on the backside of the tile to complete the mounting.



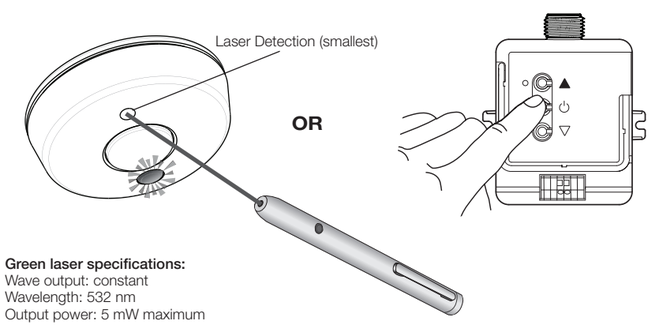
Note: For solid ceilings or others where the wireform cannot be utilized, use the supplied Command strips to adhere sensor to desired location on ceiling or fixture.

3 Associate Wireless Transmitters to Project 37 Control Module

Before beginning this step, make sure that there are no other Project 37 Control Modules being set up in the building which are currently in this association mode.. It is possible that wireless transmitters from other systems can be incorrectly associated to this module.

A Initiate association mode on the Project 37 Control Module by shining a green laser pointer at the laser detection hole on the sensor until the load attached to the Project 37 Control Module starts flashing every 2 seconds.

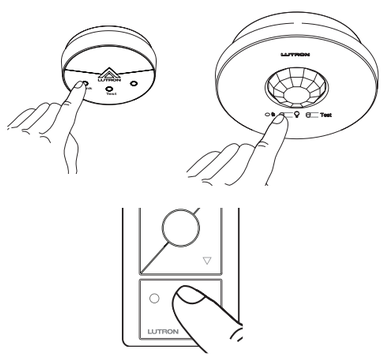
Alternatively, press and hold the toggle button for 6 seconds on the Project 37 Control Module to initiate association mode.



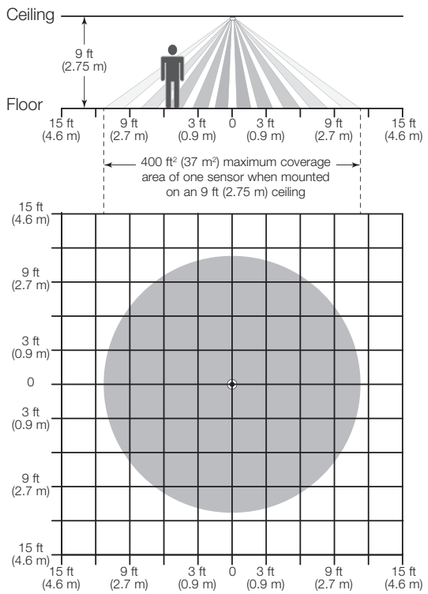
Green laser specifications:

- Wave output: constant
- Wavelength: 532 nm
- Output power: 5 mW maximum

B Hold the indicated button on each transmitter for 6 seconds. The fixture will flash to show that wireless transmitters have been associated. To associate another transmitter, repeat steps **4A** and **4B**.



Sensor Detection Range



LUTRON®
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Coopersburg, PA 18036-1299 U.S.A.

Project 37 Load Control Module | Programming

Part of the Energi TriPak® Family

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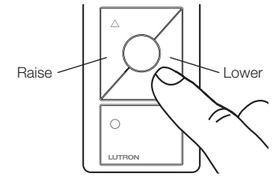
ALL PROGRAMMING IS OPTIONAL
Programming is not required for default functionality

- **Set a favorite light level**
- **Set high-end and low-end trim for all fixtures**

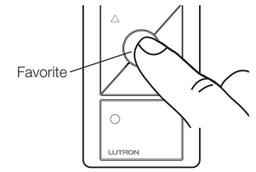
4 Set a Favorite Light Level

For Pico® Wireless Controls with a **Favorite** Button.

A Adjust lights to desired level:
Use **Raise** button "△" or **Lower** button "▽" on Pico® wireless control.

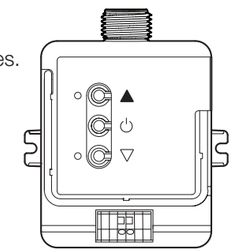


B Save favorite level:
Press and hold **Favorite** button for 6 seconds.
The load flashes 3 times to confirm that the set level is saved.



5 Set Low-End and High-End Trim

For best results, minimize the amount of sunlight entering the room before performing the following procedures.



Low-End Trim

A Enter low-end trim adjustment mode:
Press and hold **Lower** button "▽" for 12 seconds.
Lights will flash high-low-high and LED will begin flashing.

B Adjust the low-end trim:
Use **Raise** button "▲" and **Lower** button "▽" to adjust and set the lights to the desired low-end (1 to 45%).

C Save the low-end trim:
Press and hold **Toggle** button "⏻" for 6 seconds to save setting.
LED will begin flashing and then turn solid to indicate new level has been saved.

High-End Trim

D Enter high-end trim adjustment mode:
Press and hold **Raise** button "▲" for 12 seconds.
Lights will flash high-low-high and LED will flash.

E Adjust the high-end trim:
Use **Raise** button "▲" and **Lower** button "▽" to adjust and set the lights to the desired high-end (55 to 100%).

F Save the high-end trim:
Press and hold **Toggle** button "⏻" for 6 seconds to save setting.
LED will begin flashing and then turn solid to indicate new level has been

Notes

Depending on the fixture manufacturer or load, low-end and high-end trim may need to be adjusted.

- Trim low-end to ensure a stable light level because some loads will flicker or drop out if trimmed too low.
- Be sure that you can turn on the lights to the low-end trim level without any abnormal operation.
- The factory default high-end trim will normally be sufficient for most applications. Trim as desired.

Reset Factory Defaults

Note: In some instances, it may be necessary to reset the PowPak® Dimming Module and connected devices back to factory default settings. Before beginning, make sure that all devices are connected and powered.

A Triple-tap any button on the PowPak® Dimming Module and hold until the LED begins to flash slowly; release button.

B Within 3 seconds of the start of flashing, triple-tap the same button again and the LEDs will flash rapidly indicating that the unit has been reset to factory defaults.

Note: Any associations or programming previously set up with the PowPak® will be erased and will need to be re-programmed.

Troubleshooting

www.lutron.com

Ballasts cannot be controlled locally from PowPak® Dimming Module.	• Ensure that the breaker(s) to the PowPak® Dimming Module are energized. • Ensure that the PowPak® Dimming Module switched hot lead is wired to the ballast(s). • Ensure that the PowPak® Dimming Module 0–10 V control lines are wired to the ballast(s). Reset to factory defaults.
Lights do not dim or turn ON as expected.	• Ensure that 0–10 V control lines are wired properly. • Ensure that fixture does not require an inverted signal (10–0 V control). • Ensure that the wires are connected between the Project 37 Sensor and Project 37 Control Module
Lights do not respond to Wireless Transmitter(s).	• Ensure that the breaker(s) to the PowPak® Dimming Module and ballasts are energized. • Ensure that Wireless Transmitters are associated to the PowPak® Dimming Module. Reset to factory defaults.
Lights are unstable at low-end or flash/flicker at turn-on or turn-off.	• Adjust low-end trim.
Wireless Transmitter(s) cannot be associated to PowPak® Dimming Module.	• The maximum number of Wireless Transmitters have been associated to the PowPak® Dimming Module. To remove a previously set up Wireless Transmitter, tap a Wireless Transmitter button three times; on the third tap hold for three seconds and then tap three more times.

FCC Information (FC-0, FC-1 and FC-2 only)
This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation. Modifications not expressly approved by Lutron Electronics Co., Inc. could void the user's authority to operate this equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Limited Warranty

Lutron EA Ltd. ("Lutron EA") warrants each unit to be free from defects in material and workmanship and to perform under normal use and service. To the extent permitted by law, Lutron EA and Lutron Electronics Co. Inc. ("Lutron") make no warranties or representations as to the units except as set forth herein. This warranty shall run for a period of two years from the date of purchase and Lutron's obligations under this warranty are limited to remedying any defect, replacing any defective part or replacement (at Lutron EA's sole option) and shall be effective only if the defective unit is shipped to Lutron EA postage prepaid within 24 months after purchase of the unit. Repair or replacement of the unit does not affect the expiry date of the warranty. This warranty does not cover damage or deficiencies due to abuse, misuse, inadequate wiring or insulation or use or installation other than in accordance with instructions accompanying the unit.

To the extent permitted by law, neither Lutron EA nor Lutron shall be liable for any other loss or damage including consequential or special loss or damages, loss of profits, loss of income, or loss of contracts arising out of or relating to the supply of the unit or the use of the unit and the purchaser assumes and will hold harmless Lutron EA and Lutron in respect of all such loss or damage. Nothing in this warranty shall have the effect of limiting or excluding Lutron EA's or Lutron's liability for fraud or for death or personal injury resulting from its own negligence, or any other liability, if and to the extent that the same may not be limited or excluded as a matter of law.

This warranty does not affect the statutory rights of consumer purchasers of this product.

Although every attempt is made to ensure that catalogue information is accurate and up-to-date, please check with Lutron EA before specifying or purchasing this equipment to confirm availability, exact specifications, and suitability for your application.

For information on other products, please see the Warranty enclosed with the product.

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