

WIRELESS SOLUTIONS

RF433 MHZ WIRELESS DIMMING SOLUTION



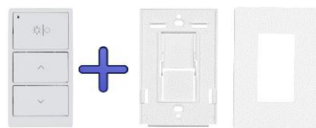
1. Single 0-10V dimming control

- Simply install the dimming module with J-BOX and let the wireless dimmer or sensor control all fixtures.
- One dimmer can control multiple dimming modules within 150 feet.
- Maximum 5 dimmers for one space.



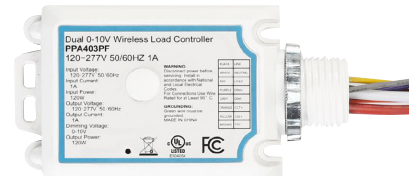
PQ-PPA4015
Dimming Control
module 10 amps

PQ-WP4013 Wireless Dimmer



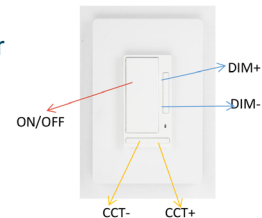
2. Dual 0-10V dimming control

- One 0-10V controls CCT, another controls wattage.
- Fixture mounted dual 0-10V dimming module.
- One 5 key dimmer controls CCT and wattage.



PQ-PPA402PF Color tuning control module 1 amp

PQ-WP4015 5 Key Dimmer
CCT & Wattage



3. Add sensor to have automatic control

- Three options for sensor control: PIR / photocell / daylight harvesting
- One sensor can control multiple dimming modules within 150 feet
- Set delay time and dimming level directly on sensor



PQ-BMS401 Wireless PIR
Occupancy/Vacancy sensor



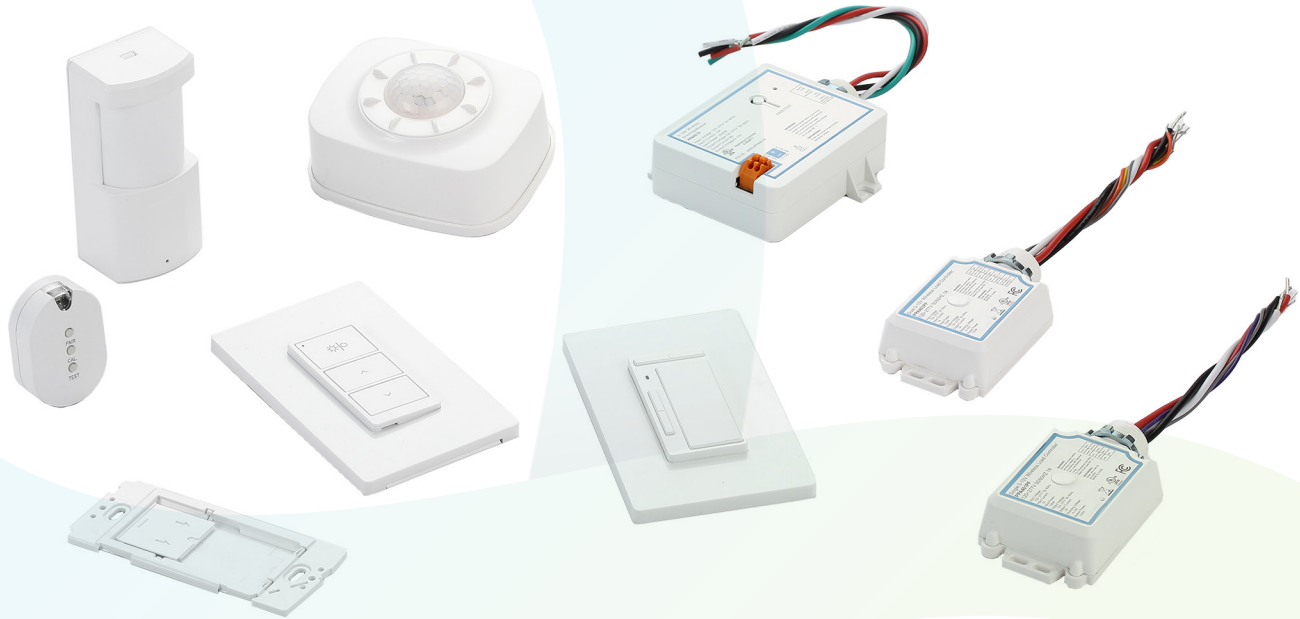
PQ-BCS401 Wireless PIR &
Photocell Bi-level Dimming Sensor



PQ-BDS401
Daylight Harvesting Sensor

WIRELESS SOLUTIONS

RF433 WIRELESS LIGHTING CONTROL SYSTEM



ITEM #	DESCRIPTION	FUNCTION	ADVANTAGE
PQ-PPA4015	Power pack 0-10V dimming module with 10A relay, 120-277VAC	Wire connected inside main junction box or connected with fixtures, max 10 amp load, works as a receiver, installed on the ceiling	<ol style="list-style-type: none"> 1. Easy installation on ceiling 2. 10A load, can control 15 panels or 10 high bay
PQ-WP4013	Wireless dimmer, CR2032 battery	Works as a dimmer, will send commands: switch on/off/dim command to power pack to control lights wirelessly	<ol style="list-style-type: none"> 1. Wireless, can be put anywhere to control all lights 2. Can have second dimmer, put on desk or other place 3. Same look as existing switch
PQ-BMS401	Wireless PIR sensor, AAA battery	Wall mount PIR sensor, will send commands: switch on/off/dim command to power pack Can set delay time, dimming level on sensor	<ol style="list-style-type: none"> 1. Wireless, can be placed anywhere to detect people, not limited by distance 2. One sensor can control all lights, save equipment and labor costs 3. Change settings at any time 4. Can be attached with magnet to warehouse shelves
PQ-BCS401	Wireless PIR and Photocell bi-level dimming sensor, CR123A battery	Dual tech PIR and daylight sensor, combines PIR sensor with photocell	<ol style="list-style-type: none"> 1. Dual tech PIR and daylight sensor 2. Ceiling mount, wide detection angle, photocell control, one sensor controls all lights
PQ-BDS401	Daylight harvesting sensor, CR2450 battery	Daylight harvesting sensor	Daylight harvesting, balance the electric light with daylight and save additional energy.

WIRELESS SOLUTIONS

1. What's the greatest benefit in using this system?

- No need to run dimming wires to the wall, which saves labour costs.
- One power pack and one sensor control handles multiple fixtures, which saves equipment costs.

2. What's the communication distance between power pack and wireless device?

- Line distance is about 150 feet. Since the power pack is installed on the ceiling, the distance is usually sufficient.

3. What's the detect distance of the PIR sensor?

- Line distance 50 feet. Since the sensor is not installed with the fixture, you can put it anywhere you want to detect the presence of people.

4. How many dimmers or sensors can control one power pack?

- See diagram below.



One remote, multiple power packs

One wireless dimmer or sensor can control unlimited pre-matched power packs within a communication range of 200 feet



Multiple remotes, one power pack

One pre-matched power pack can be controlled by a maximum of 5 dimmers, 4 PIR sensors and one daylight sensor.

5. Can you recommend different component setups for different situations?

- power pack + dimmer + daylight harvesting / for office dimming, panels or troffers
- power pack + daylight harvest for common area
- power pack + PIR sensor for restroom, warehouse, high bay

WIRELESS SOLUTIONS

ENERGY SOLUTIONS FOR DIFFERENT SPACES

Area dimming and sensing

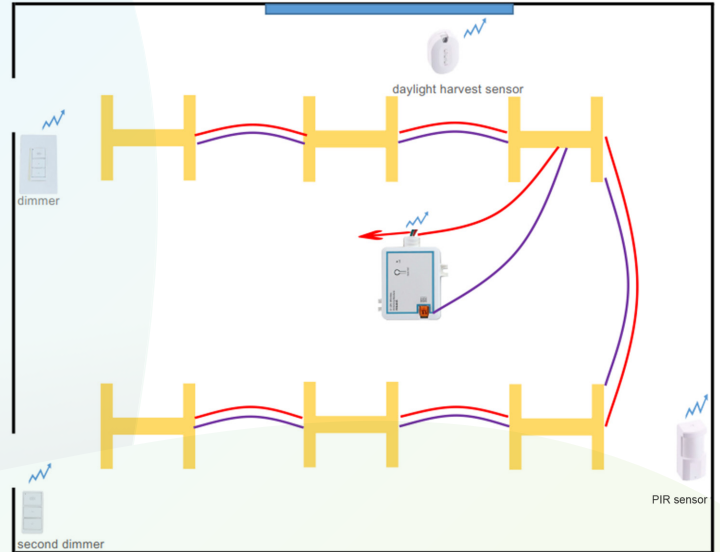
For office, classroom, hospital, parking lot...

Switch on/off and dim a group of lights with wireless manual control dimmer and sensor, which saves additional energy with daylight harvesting.



Dimming Module / Dimmer / Pir Sensor / Daylight Sensor

Install the dimming module in standard junction box, gather all dimming wire then feed into the 0-10V terminal. Put two wireless dimmers near the entrance and exit, add a daylight sensor near the window to save additional energy.



Line voltage wire

Dimming wire

RF Communication
Max 200 feet

Warehouse

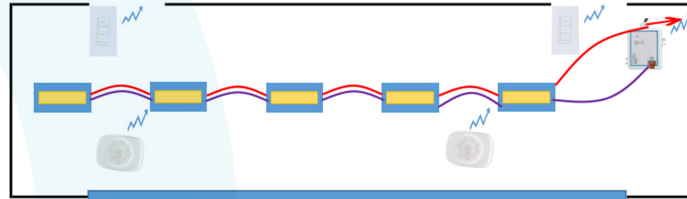
Where wire connection between each light is difficult, control multiple power packs with several wireless devices.



WIRELESS SOLUTIONS

Corridor, hallway, yard where daylight sensor is needed

Switch on/off a group of lights based on daylight and human activity. Save energy with multi-level dimming.



Design the wireless lighting control to meet your needs

The wireless transmitter can control unlimited paired power packs within a line distance of 200 feet.

The power pack can be controlled by at most 5 dimmers + 4 PIR sensors + 1 daylight sensor.



One remote, multiple power packs

One wireless dimmer or sensor can control unlimited pre-matched power packs within a communication range of 200 feet



Multiple remotes, one power pack

One pre-matched power pack can be controlled by a maximum of 5 dimmers, 4 PIR sensors and one daylight sensor.



Dual-tech PIR and photocell sensor with auto-mode and streetlight mode

