



# superbrightleds com PPA401S Wireless Dimming System User Manual

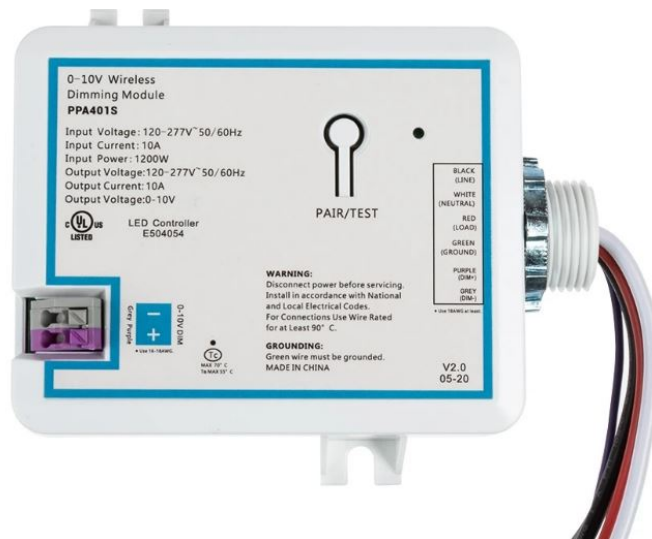
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**superbrightleds com PPA401S Wireless Dimming System**



**Important:** Read all instructions prior to installation.

**Wireless Dimming System**

**Specifications**

BMS401 Specifications	
Battery Type	AAA (x2, not included)
Detection Range	13.1–49.2 ft (4–15 m)
Detection Angle	120°

WP4013 Specifications	
Battery Type	CR2032 (x1 not included)

General Specifications	
Operating Temperature	-4°–104° F (-20°–40° C)
IP Rating	IP20
Radio Frequency	433.96 MHz
RF Range	98.4 ft (30 m)

Check product label for specific electrical specifications related to installation.  
Improper installation will void warranty.



## Safety and Notes

- Product should be installed and serviced in accordance with applicable national, state, and local building and electrical codes.
- To reduce the risk of electric shock, ensure that the main power source and circuit breakers are switched off before performing any installation or wiring procedures.
- Each dimming module can be paired with up to four PIR motion sensors (BMS401) and five dimmer switches (WP4013). Dimmer switches and PIR motion sensors can be paired with infinite number of dimming modules.
- Dimmer switches and motion sensors should be paired one at a time.

## Dimming Module (PPA401S) Installation

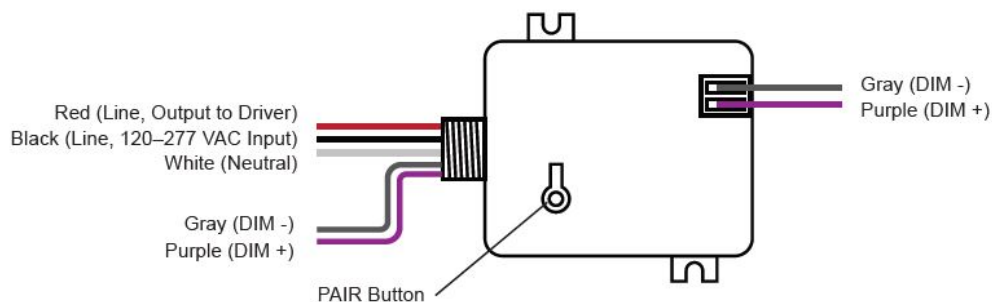
1. With supply power off, connect wiring as shown in diagram.

**Note:** Open knockout on fixture or junction box prior to this step if needed.

2. Mount dimming module.

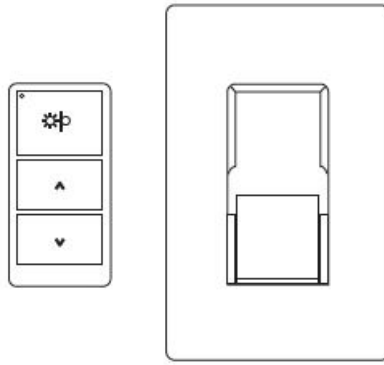
3. Follow pairing instructions for intended controller (PIR sensor or dimmer switch).

**Note:** To unpair, hold the PAIR button for 5 seconds. You will hear four beeps to confirm unpairing is complete.



Multiple lights can be controlled with one dimming module so long as the maximum load (10 A) is not exceeded. Dimming wires can be connected through conduit-side wires or external connector on controller body, but should not be connected to both simultaneously.

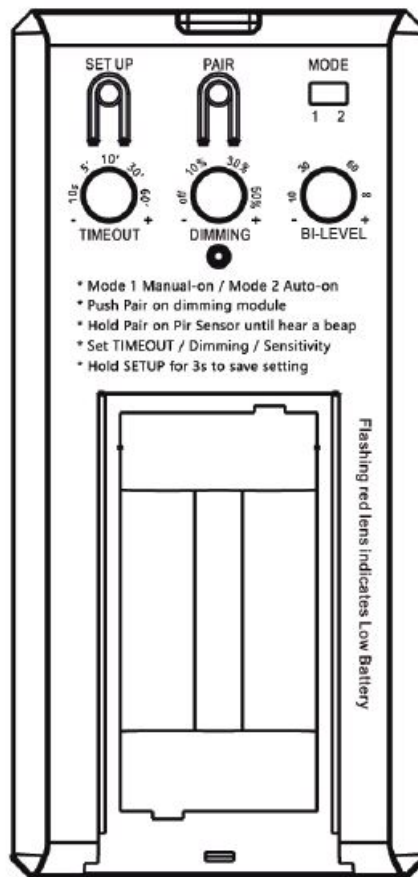
## Dimmer Switch (WP4013) Installation



1. Being careful to avoid any live wires, install the full wall plate or adapter plate with the tab on the bottom side as shown.
2. Install CR2032 battery (not included) into remote, but do not install remote into wall plate at this time.
3. With dimming module powered on, press the PAIR button on the module. The LED on the module will flash quickly.
4. Hold ON/OFF button on remote for 3 seconds to pair with dimming module.  
An audible beep indicates the remote has been paired with the dimming module.
5. Test remote to confirm successful pairing.  
**Note:** Up/Down buttons respond to individual presses and will not make continual adjustments if held down.
6. Once pairing is complete, slide remote into wall plate.  
**Note:** Removal of remote will require removal of the wall plate.

## PIR Motion Sensor (BMS401) Installation

Motion sensor has two modes of operation. Mode 1 uses default settings and will switch light(s) off after 30 minutes with no motion detected. Mode 2 uses custom settings. Indicator LED will flash red to indicate low batteries. PIR sensor requires line of sight to function properly. Do not mount near anything hot or sources of radiant heat.

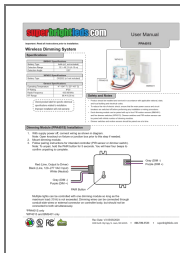


1. Install batteries (depress tab on top of sensor, and gently pry casing apart).
2. With dimming module powered on, press PAIR button on dimming module.  
The LED on the module will flash quickly.
3. Hold PAIR button on PIR sensor for 3 seconds to pair with dimming module.  
An audible beep indicates the remote has been paired with the dimming module.
4. Set sensor to desired mode.
5. If mode [2] is selected, use the following settings to set sensor parameters.  
Timeout sets the amount of time before the light dims to the standby level after no motion is detected. Dimming level sets brightness during standby time. Bi-level sets the amount of time before light turns off after standby time begins.  
Timeout – 10 seconds, 5 minutes, 10 minutes , 30 minutes, or 60 minutes  
Dimming Level – OFF, 10%, 30%, or 50%  
Bi-level -10 minutes, 30 minutes, 60 minutes, or infinite (light remains at dimming level indefinitely)
6. Once all settings are adjusted, hold SETUP for 3 seconds to save the settings. The small LED on the PIR sensor will flash twice to indicate setup has been saved.  
**Note:** Every time you change a setting, remember to hold SETUP for 3 seconds to save the new setting.
7. Finally, switch the mode (e.g. from 1 to 2) and then switch it back to the original mode to enable the newly saved settings.

<sup>1</sup>PPA401S only

<sup>2</sup>WP4013 and BMS401 only

## Documents / Resources



[superbrightleds.com PPA401S Wireless Dimming System](#) [pdf] User Manual  
PPA401S Wireless Dimming System, PPA401S, Wireless Dimming System, Dimming System