

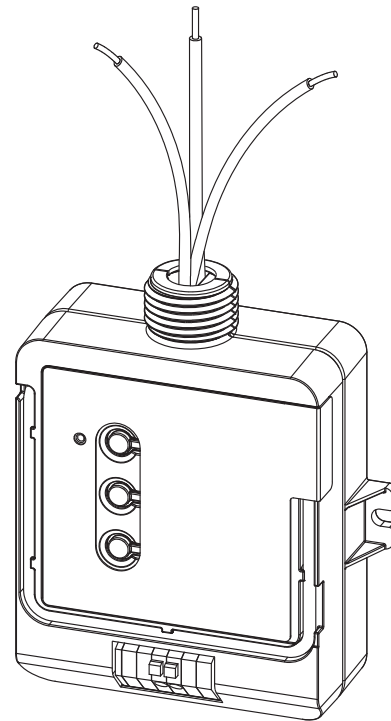
## Vive™ PowPak® Dimming Module with 0–10 V Control

The PowPak® Dimming Module with 0–10 V Control is a radio frequency (RF) control that operates 0–10 V controlled fluorescent ballasts or LED drivers based on input from Pico® remote controls and Radio Powr Savr™ sensors. The Dimming Module with 0–10 V Control is ideal for small areas (e.g., classrooms, conference rooms, private offices).

Communication with RF input devices (e.g., Pico® remote controls, Radio Powr Savr™ sensors) is accomplished by using Lutron® Clear Connect® RF Technology.

These products are also compatible with the Vive™ hub which enables a simple setup process using a standard web browser on any Wi-Fi enabled phone, tablet or computer. It also enables control and monitoring of all Vive™ devices. The Vive™ hub can be added at any time and preserves existing system setup by extracting local programming from each device. For a complete list of features supported with the Vive™ hub, see specification submittal 369902.

**Note for Replacement:** RMJS/URMJS - the “S” model can replace the non-“S” model.



### Features

- Controls up to 60 mA of 0–10 V controlled fixtures together
- Switches up to 8 A total
- 0–10 V control link automatically sources or sinks to the third party fixtures
- Configurable high- and low-end trim
- Various operating voltages available; refer to model number chart below for details on voltage requirements
- Receives wireless inputs from up to 10 Pico® remote controls, 10 Radio Powr Savr™ occupancy/vacancy sensors, and 1 Radio Powr Savr™ daylight sensor
- Utilizes Lutron® Clear Connect® RF Technology; refer to model number chart below for frequency band data
- Mounts to a US-style junction box through a standard-size knockout
- Complies with requirements for use in a compartment handling environmental air (plenum) per NEC® 2011 300.22(C)(3) (RMJS- and URMJS-)

Job Name:	Model Numbers:
Job Number:	

## Models

Model Number	Region	Operating Voltage	Frequency Band
RMJS-8T-DV-B	U.S.A., Canada, Mexico	120/277 V~	431.0–437.0 MHz
URMJS-8T-DV-B	U.S.A. (BAA Compliant)	120/277 V~	431.0–437.0 MHz

**NOTE:** Contact Lutron for frequency band compatibility for your geographic region if it is not indicated above.

Job Name:	Model Numbers:
Job Number:	

## Specifications

### Regulatory Approvals

#### RMJS- and URMJS- models

- UL® Listed
- UL® 2043 Plenum-Rated
- FCC approved. Complies with the limits for a Class B device, pursuant to Part 15 of the FCC rules
- CSA and IC (Canada)
- COFETEL (Mexico)
- NOM (Mexico)

### Power

- Operating voltage
  - **RMJS- and URMJS- models:** 120/277 V~ 50/60 Hz

### Output Ratings

- Switch rating of 8 AX. Rated for resistive or capacitive loads as defined by IEC/EN 60669-2-1
- 0–10 V control link for 60 mA maximum output, source or sink automatically configures

### Other Power Specifications

- Standby power:
  - 240–277 V~ 610 mW
  - 120 V~ 550 mW
- BTU/hour when fully loaded: 9

### System Communication

- Operates using Clear Connect® RF Technology for reliable wireless communication; refer to model number chart on page 1 for frequency band details
- RF range is 30 ft (9 m)

### Environment

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

### 0–10 V Control Link

- Communicates with up to 60 mA of fixtures
- Control link is IEC SELV/NEC® Class 2
- 0–10 V control can be installed using NEC® Class 1 or Class 2 wiring methods. Alternately, it can be wired to basic or double-insulated devices
- Terminals accept one 18 AWG to 16 AWG (0.75 mm<sup>2</sup> to 1.5 mm<sup>2</sup>) solid wire
- Always consult local wiring codes
- Compatible with ANSI E1.3 2001 (R2006), IEC 60929 Annex E

### Default Operation

- Associated wireless input devices control all connected fixtures together
- Occupancy Sensors:
  - Occupied: 100%; Unoccupied: 0% (OFF)
- Pico® Remote Controls:
  - On: 100%; Favorite Level: 50%; Off: 0% (OFF)
- Daylight Sensor: Decreases electric light in response to additional available daylight

Job Name:	Model Numbers:
Job Number:	

## Specifications (continued)

### Key Design Features

- LED status indicator shows load status and provides programming feedback
- Configurable high-end and low-end trim
- Power failure memory: If power is interrupted, connected loads will return to the previous level prior to interruption
- 0–10 V control miswire protection up to 30 V<sub>rms</sub>
- Programming lockout can be enabled for public spaces
- 0–10 V control can be programmed to be inverted for 10–0 V control
- Daylight override: Pressing the raise button on an associated Pico® remote control will temporarily override daylighting for all fixtures wired to the PowPak® Dimming Module with 0–10 V control
  - Daylighting will be re-enabled for all the fixtures wired to the PowPak® Dimming Module with 0–10 V control when one of the following occurs:
    - Two hours have passed since the override.\*
    - ON, OFF or Preset button has been pressed on a Pico® remote control controlling the fixtures wired to the PowPak® Dimming Module with 0–10 V control.
    - All associated Occupancy Sensors have reported unoccupied.

\* Each time a daylighting override occurs for any control associated to the PowPak® Dimming Module with 0–10 V control, the two-hour timer is reset.

## Advanced Configurations

### Pico® Remote Controls

- Up to 10 Pico® remote controls
- Favorite levels can be set for each Pico® remote control

### Radio Powr Savr™ Daylight Sensor

- The Radio Powr Savr™ daylight sensor will affect all connected ballast and LED drivers equally
- For multiple rows of daylighting, a separate PowPak® Dimming Module with 0–10 V must be used for each daylighting row

### Minimum Light Level Setting (optional)

- Certain applications, such as hallways, may require that the lights never turn off. For these areas, select the minimum light level option and the load will lower to programmed low-end level. Default operation lowers to OFF.

### High- and Low-End Trim

- High-end and low-end trim affect all connected fixtures equally, and can be configured from the PowPak® Dimming Module.
- Adjustable low-end trim (0–45%). Trimmable low-end can ensure a stable light level. Some fixtures will flicker or drop out if trimmed too low.
- The maximum light output of connected fixtures can be decreased down to 55% for energy savings in over-lit spaces.

**Note:** The perceived light output of low-end trim may vary between fixture manufacturers and model numbers. For best results, do not mix different ballasts or drivers on the same 0–10 V circuit.

### Radio Powr Savr™ Occupancy Sensors

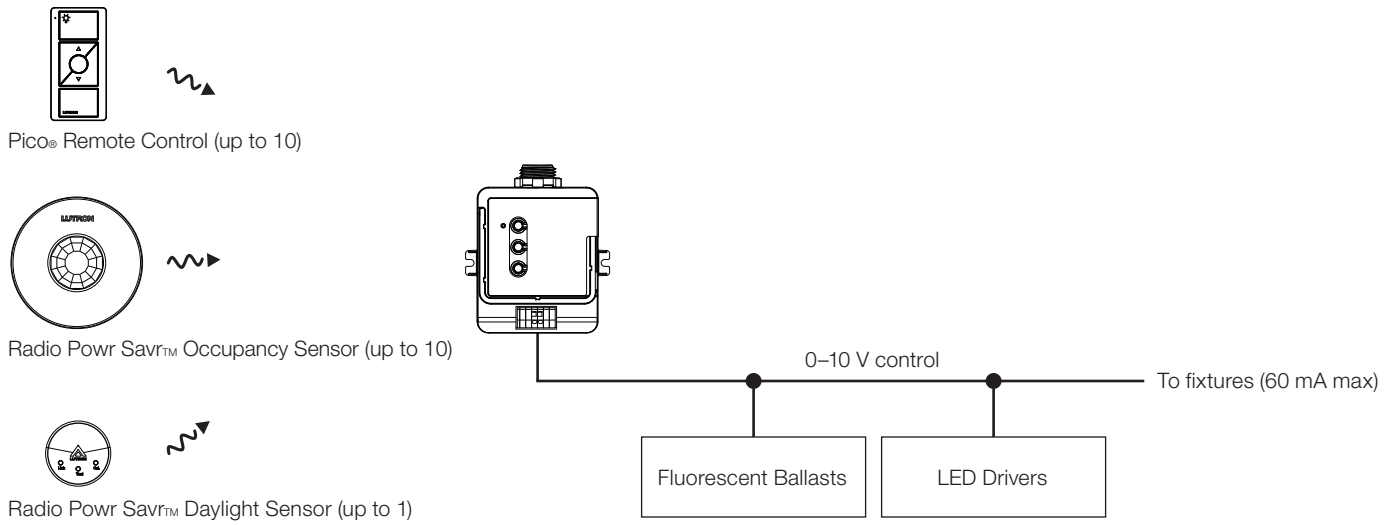
- Radio Powr Savr™ occupancy and vacancy sensors control all connected ballasts or drivers.
- Pico® remote controls can be used to adjust the Occupied levels of fixtures that they control from 1% to 100% (of output signal) or can make them unaffected by Occupancy events.
- Vacancy events (area becomes unoccupied) turn all ballasts and driver models off or to minimum light level.

### Programming Lockout

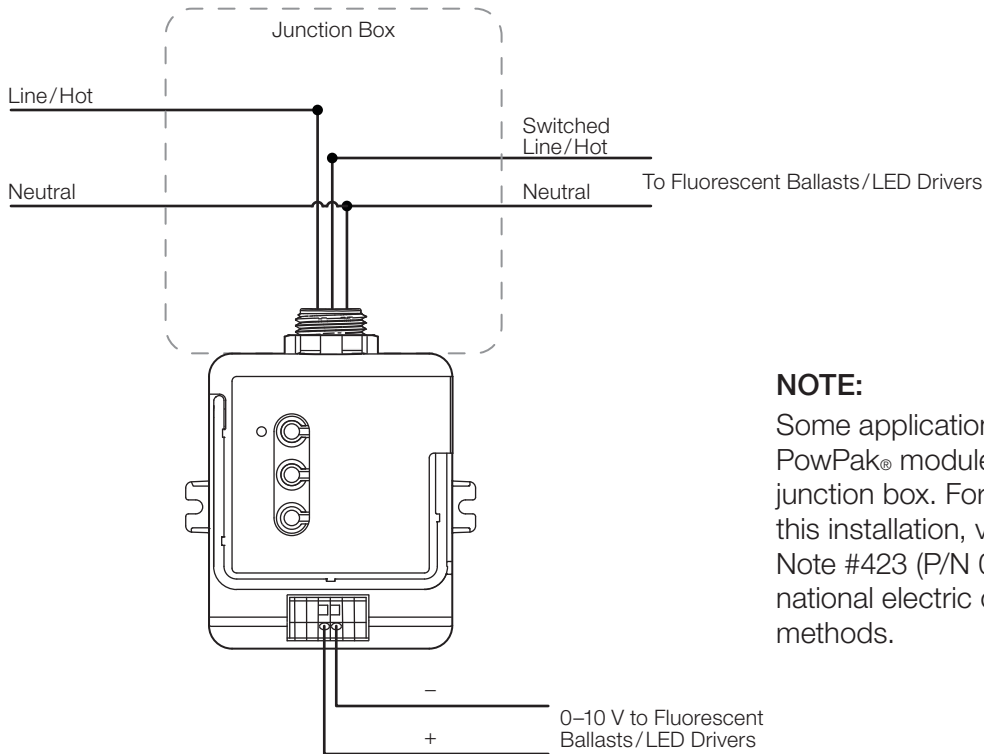
- Once enabled, all Pico® remote controls can no longer perform programming or set favorite levels.
- To change settings, programming lockout must be unlocked by a button combination directly on the PowPak® Dimming Module.

Job Name:	Model Numbers:
Job Number:	

### System Diagram (RMJS- and URMJS- models)



### Wiring Schematic (RMJS- and URMJS- models)

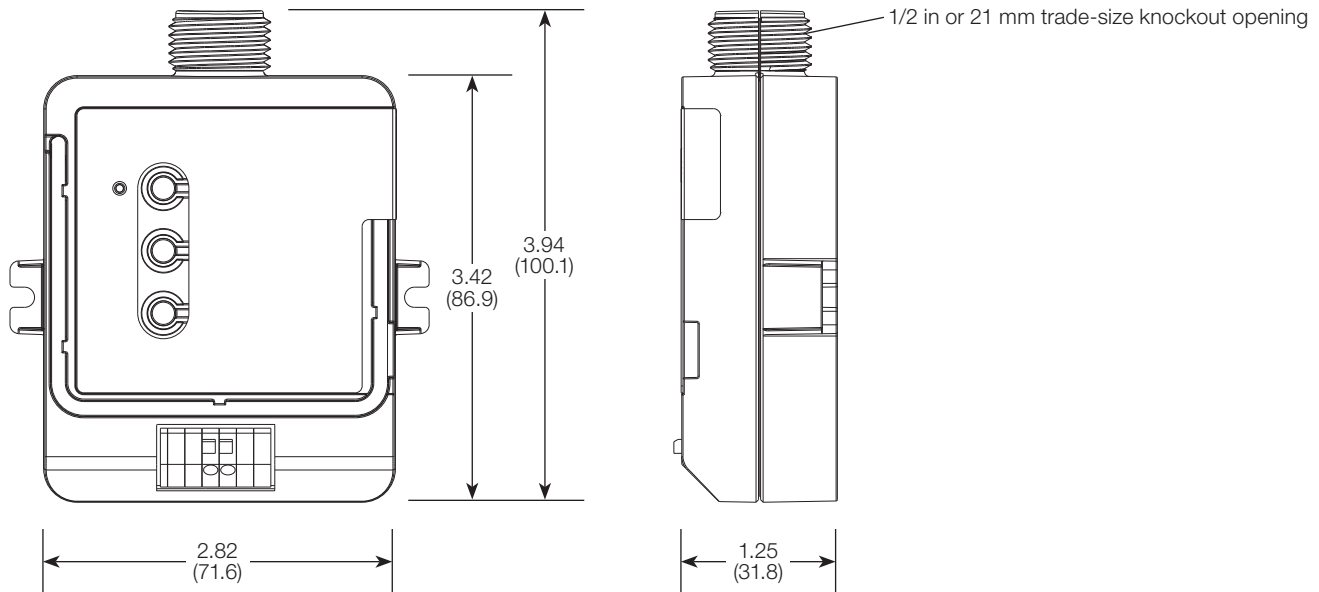


**NOTE:**  
 Some applications (in the U.S.A.) require the PowPak® module to be installed inside an additional junction box. For information about how to perform this installation, visit [www.lutron.com](http://www.lutron.com), Application Note #423 (P/N 048423). Please consult all local and national electric codes for proper installation methods.

Job Name:	Model Numbers:
Job Number:	

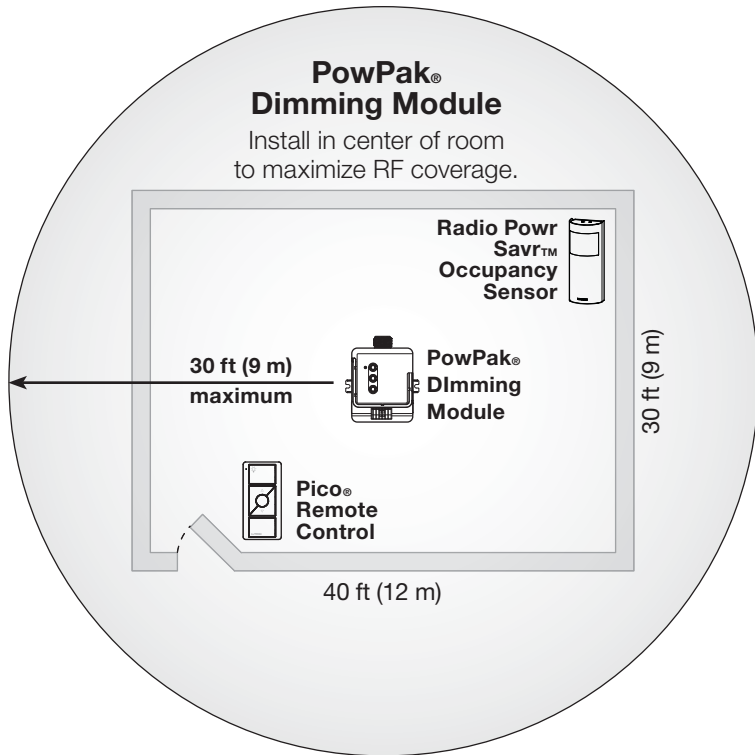
### Dimensions

Dimensions are shown as: in (mm)



### Range Diagram

All wireless transmitters must be installed within 30 ft (9 m) of the PowPak® Dimming Module.



Contact Lutron first for applications using foil-backed or metallic ceiling tiles.

Job Name:	Model Numbers:
Job Number:	