

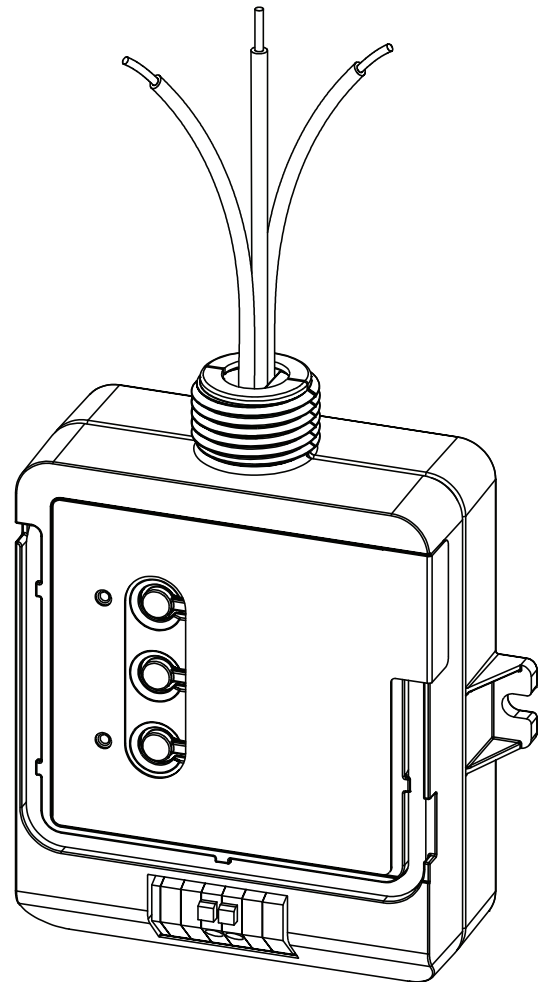
PowPak™ Dimming Module with EcoSystem®

The PowPak™ Dimming Module with EcoSystem® is a radio frequency (RF) control that operates up to 32 EcoSystem® ballasts based on input from Pico® controls and Radio Powr Savr™ sensors. Configurable for multiple zones in a single area, the Dimming Module with EcoSystem® is ideal for small areas such as classrooms, conference rooms, and private offices.

Communication with RF input devices, such as Pico® controls and Radio Powr Savr™ sensors, is accomplished using Lutron Clear Connect® RF Technology.

Features

- Controls up to 32 EcoSystem® fluorescent dimming ballasts and LED drivers
- Various operating voltages available — refer to model number chart below for details on voltage requirements
- Receives input from up to nine Pico® controls, six Radio Powr Savr™ occupancy/vacancy sensors, and one Radio Powr Savr™ daylight sensor
- Utilizes Lutron Clear Connect® RF Technology – refer to model number chart below for frequency band data
- Mounts to a junction box through a standard half-inch (NPT trade size) knockout
- Complies with requirements for use in a compartment handling environmental air (plenum) per NEC® 2011 300.22(C)(3)



Model Number	Operating Voltage	Frequency Band	Region
RMJ-ECO32-DV-B	120/277 V~	431.0 – 437.0 MHz	U.S.A., Canada, Mexico
URMJ-ECO32-DVB	120/277 V~	431.0 – 437.0 MHz	U.S.A., Canada, Mexico (BAA Compliant)
RMQ-ECO32-DV-B	220-240 V~	433.05 – 434.79 MHz	Hong Kong
RMM-ECO32-DV-B	220-240 V~	868.125 – 868.475 MHz	China and Singapore

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

RMJ & URMJ- models only

- 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
- COFETEL
- NOM

Power

- Operating voltage:
RMJ & URMJ- model 120/277 V~ 50/60 Hz 40 mA
RMQ- model 220-240 V~ 50/60 Hz 40 mA
RMM- model 220-240 V~ 50/60 Hz 40 mA

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 (10 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

EcoSystem® Link

- Communicates with up to 32 EcoSystem® enabled dimming ballasts, LED drivers, and interfaces such as C5-BMJ-16A
- EcoSystem® Digital Link can be wired Class 1 or Class 2 for maximum wiring flexibility
- Terminals accept 18 to 16 AWG (0.75 to 1.5 mm²) solid wire

NOTE: Must use Rapid Start sockets with EcoSystem® ballasts.

NOTE: The PowPak™ Dimming Module with EcoSystem® does NOT support the C5-XPJ-16A switching module.

NOTE: Wired sensors connected to EcoSystem® devices are NOT supported.

Default Operation

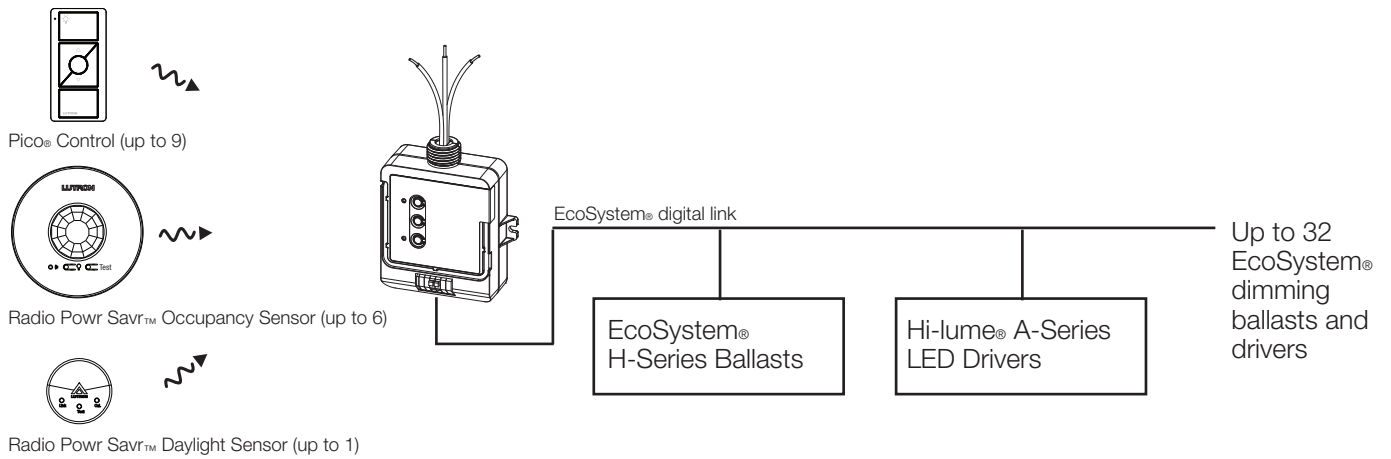
- Associated wireless input devices control all connected EcoSystem® ballasts and drivers
- Occupancy Sensors:
 - Occupied: 100%; Unoccupied: 0% (OFF)
- Pico® Controls:
 - On: 100%; Favorite Level: 50%; Off: 0% (OFF)
- Daylight Sensor: Decreases electric light in response to additional available daylight

Key Design Features

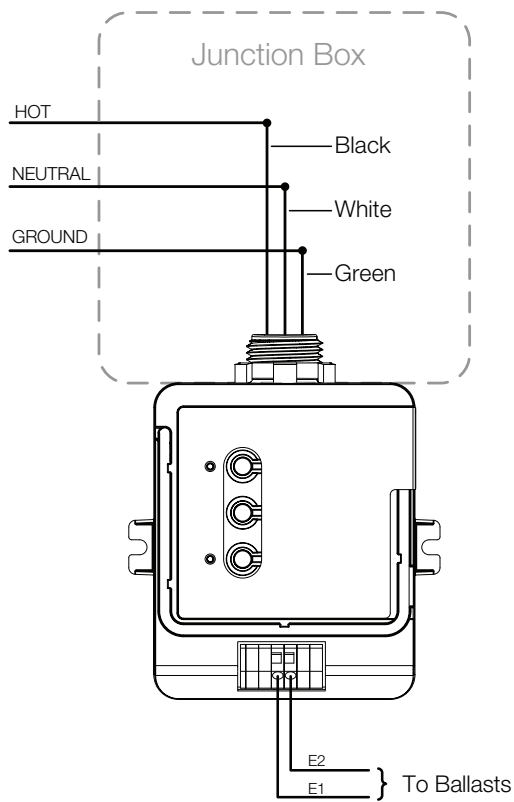
- LED status indicators show communication status and provide programming feedback
 - Power failure memory: If power is interrupted, connected loads will return to the previous level prior to interruption
 - EcoSystem® link miswire protection up to 347 V~
 - Daylight override: Pressing the raise button on an associated Pico® will temporarily override daylighting for the fixtures in that Pico® group
 - Daylighting will be re-enabled for that Pico® group when one of the following occurs:
 - Two hours have passed since the override.*
 - ON, OFF or Preset button has been pressed on a Pico® controlling that group.
 - All associated Occupancy Sensors have reported unoccupied.
- * Each time a daylighting override occurs for any Pico® group, the two hour timer is reset.

Job Name:	Model Numbers:
Job Number:	

System Diagram

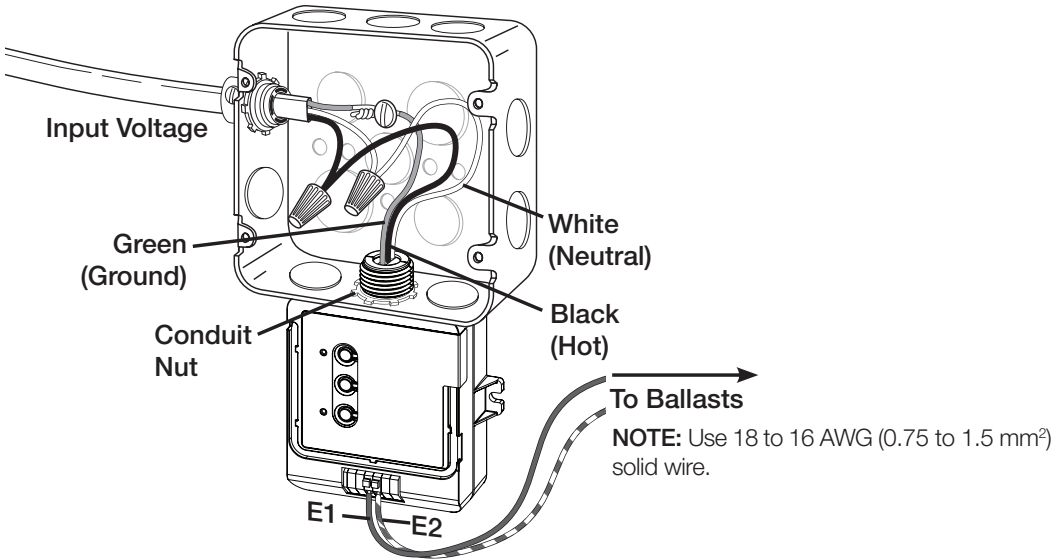


Wiring Diagram

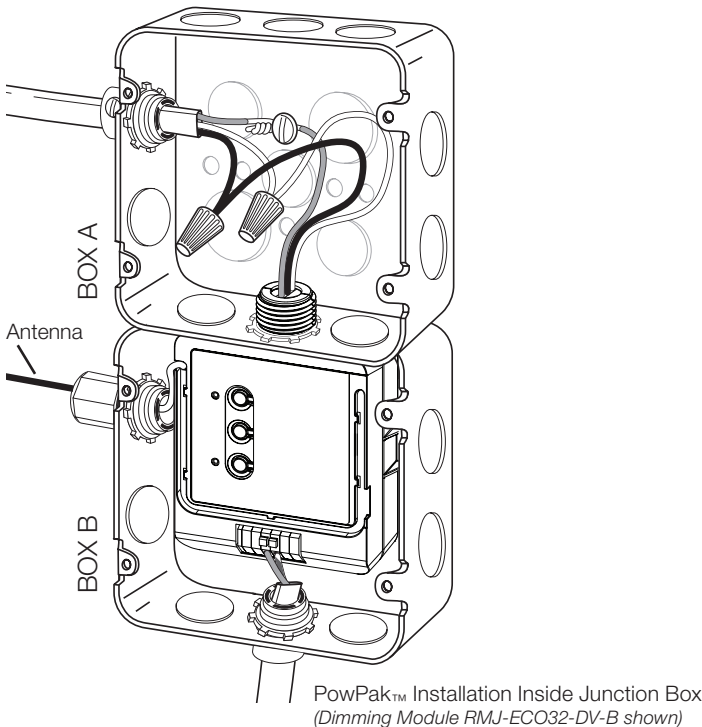


Job Name:	Model Numbers:
Job Number:	

Wiring Diagram



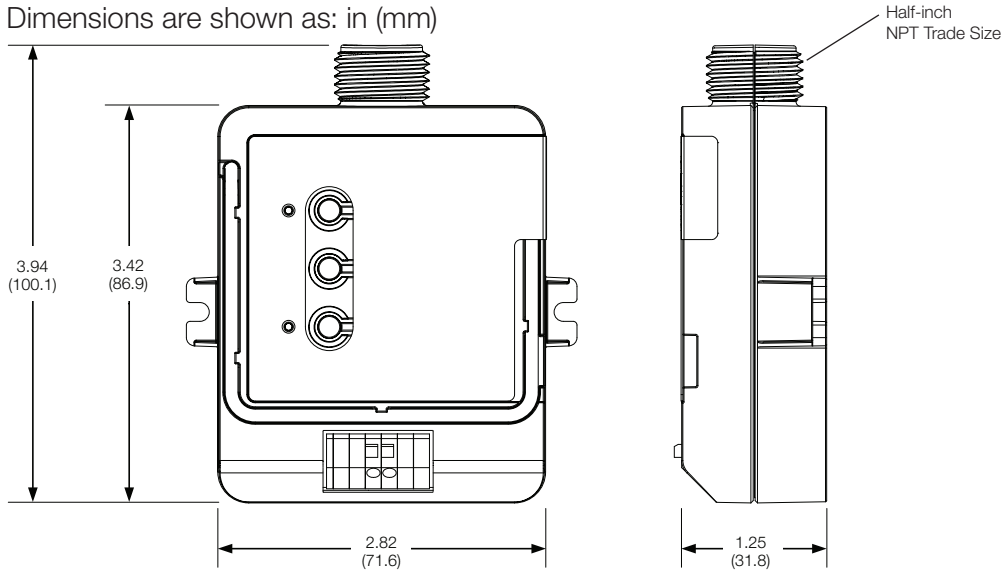
In some applications, a PowPak™ module can be installed inside a 4 in x 4 in (102 mm x 102 mm) junction box. For information about how to perform this installation, please see Application Note #423 (p/n 048423).



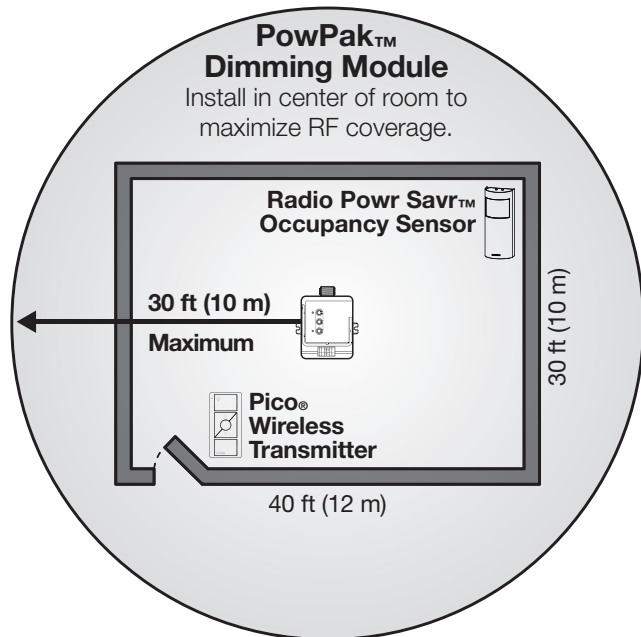
Job Name:	Model Numbers:
Job Number:	

Dimensions

Dimensions are shown as: in (mm)



Range Diagram



All Wireless Transmitters must be installed within 30 ft (10 m) of the PowPak™ Dimming Module.

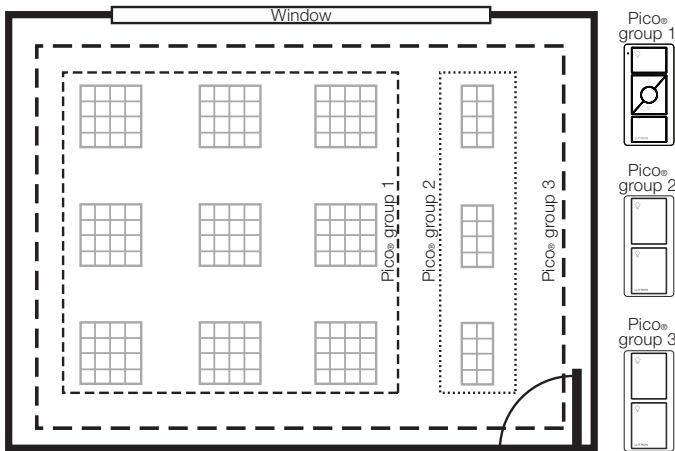
- Contact Lutron first for applications using foil-backed or metallic ceiling tiles.

Job Name:	Model Numbers:
Job Number:	

Advanced Configurations

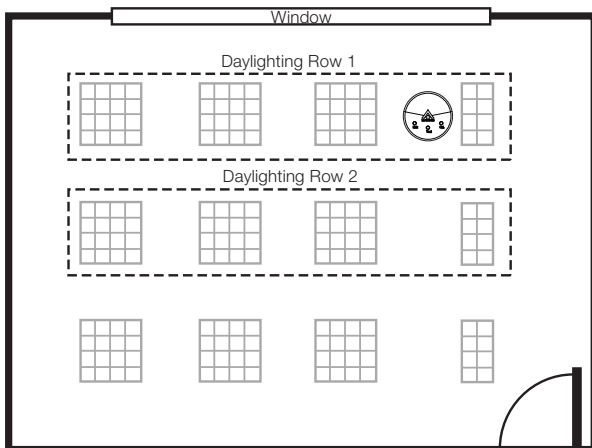
Pico® Wireless Controls

- Up to nine Pico® devices, each with their own control group
- Each group can include any of the connected ballasts or drivers or drivers
- Favorite levels can be set for each Pico® wireless control



Radio Powr Savr™ Daylight Sensor

- Up to two daylighting rows can be configured
- The Radio Powr Savr™ daylight sensor group can include up to 32 ballasts or drivers



Minimum Light Level Setting (optional)

- Certain applications, such as hallways, may require that the lights never turn off. For these areas, select the 10% minimum light level option.

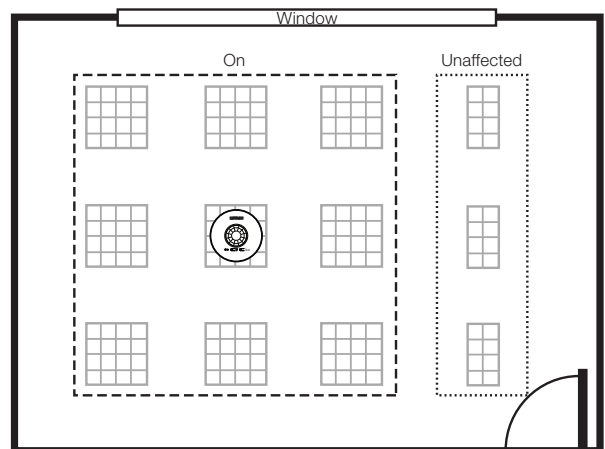
High-End Trim

- The maximum light output of connected ballasts can be decreased by up to 50% for energy savings in over-lit spaces
- High-End Trim affects all connected ballasts and drivers equally, and can be configured from the dimming module or from any associated Pico®

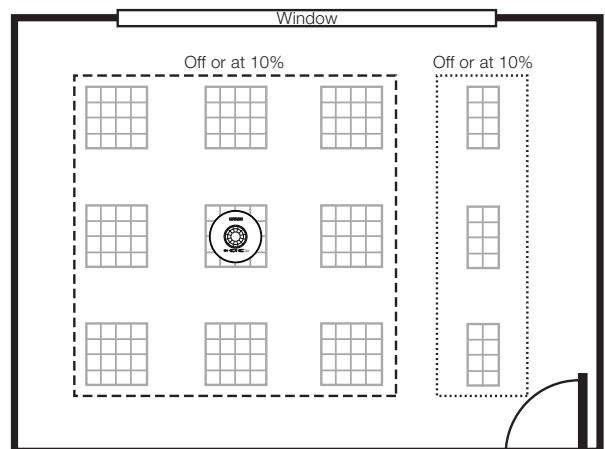
Radio Powr Savr™ Occupancy Sensors

- Radio Powr Savr™ occupancy and vacancy sensors control all connected ballasts or drivers
- Grouped Pico® controls can be used to adjust the Occupied levels of ballasts or drivers that they control from 1% to 100% or can make them unaffected by Occupancy events
- Vacancy events (area becomes unoccupied) turn all ballasts and drivers off or to 10%, if minimum light level is set

Occupied



Unoccupied



Job Name:	Model Numbers:
Job Number:	