

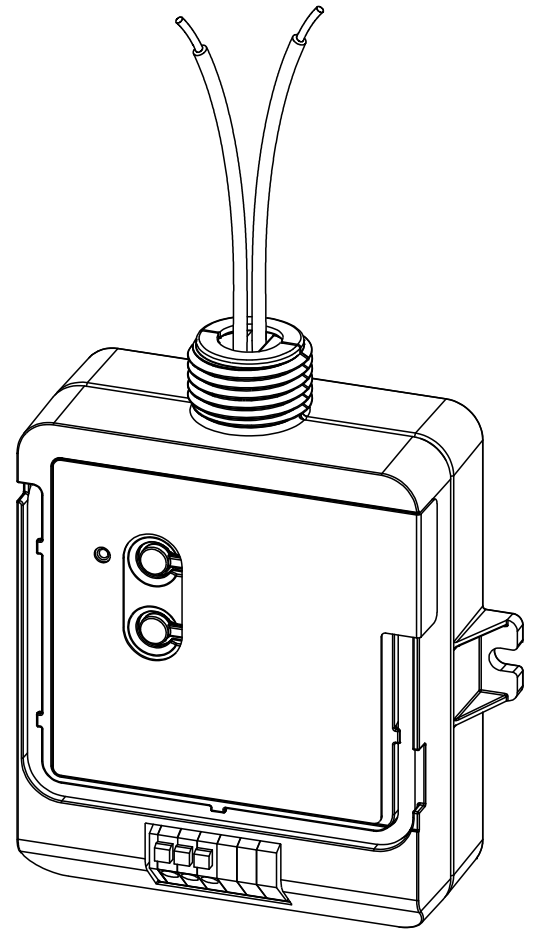
## PowPak™ CCO Module

The PowPak™ CCO Module is a low-voltage radio frequency (RF) control that provides a single dry contact closure output based on input from Pico® controls and Radio Powr Savr™ occupancy and daylight sensors. It can be powered by to 24 V~ or 24 V= for easy connection and integration into building management, HVAC, VAV, and other 3rd-party systems.

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

### Features

- Single contact closure output including both normally open (NO) and normally closed (NC) dry contacts
- Maintained output type
- Operates at 24 V~ or 24 V=
- Receives wireless inputs 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
- Screw tabs provided for surface mounting (recommended); junction box mounting available via half-inch (NPT trade size) threaded nipple
- Complies with requirements for use in a compartment handling environmental air (plenum) per NEC® 2011 300.22(C)(3)



Model Number	Frequency Band	Region
RMJ-CCO1-24-B	431.0 – 437.0 MHz	431.0 – 437.0 MHz
URMJ-CCO1-24B	431.0 – 437.0 MHz	431.0 – 437.0 MHz (BAA Compliant)
RMQ-CCO1-24-B	433.05 – 434.79 MHz	Hong Kong
RMM-CCO1-24-B	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.

<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	

# Specifications

## Regulatory Approvals

### RMJ & URMJ- models only

- UL Listed to US and Canadian Safety Standards
- UL 2043 Plenum Rated
- FCC approved. Complies with the limits for a Class B device, pursuant to Part 15 of the FCC rules.
- IC
- COFETEL

## Power

- NEC® Class 2
- Operating voltage: 24 V~ / 24 V==
- Operating current, nominal: 45 mA (24 V~)  
35 mA (24 V==)

## 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

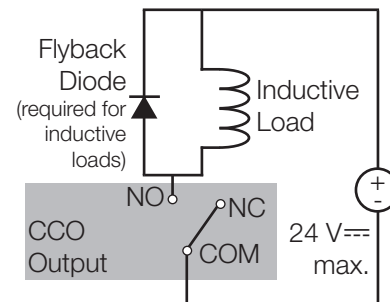
- Ambient operating temperature: 32 °F to 131 °F (0 °C to 55 °C)
- 0% to 90% humidity, non-condensing
- For indoor use only

## Contact Closure Output

- Accepts input voltages of 0-24 V~ / 0-24 V==; see chart below for load switching capacities

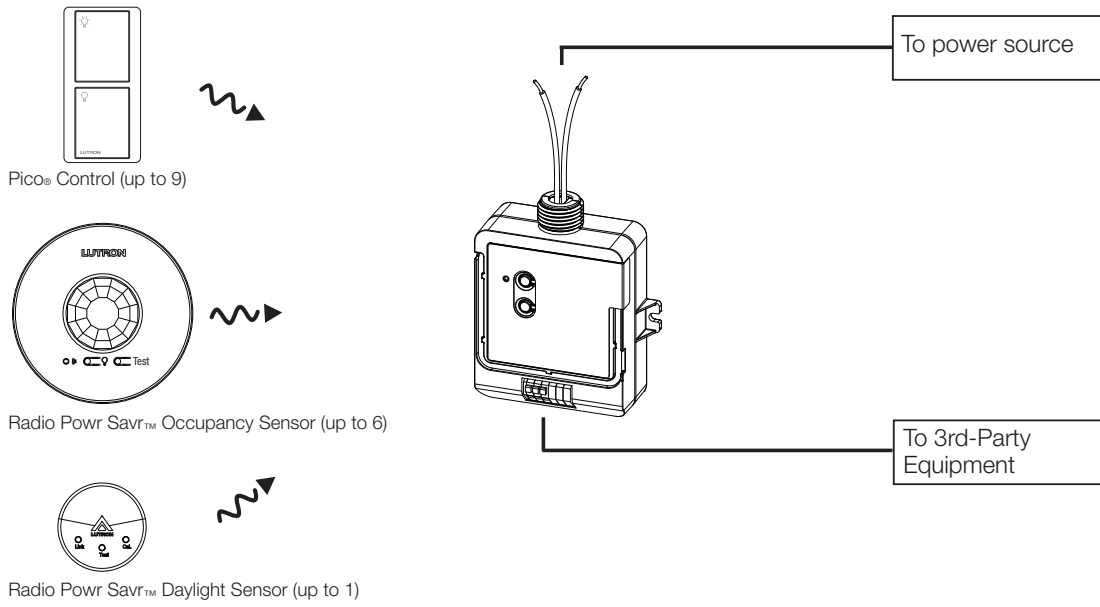
Switching Voltage	Resistive Load 
0-24 V==	1.0 A
0-24 V~	0.5 A

- Provides both normally open (NO) and normally closed (NC) dry contacts
- Maintained output type
- CCO terminals accept 20 to 16 AWG (0.5 to 1.5 mm<sup>2</sup>) solid or stranded wire
- Output is latching
- The CCO is not rated to control unclamped, inductive loads. Inductive loads include, but are not limited to, relays, solenoids, and motors. To control these types of equipment, a flyback diode must be used (DC voltages only). See diagram below. For more information, please see Application Note #434 (p/n 048434).

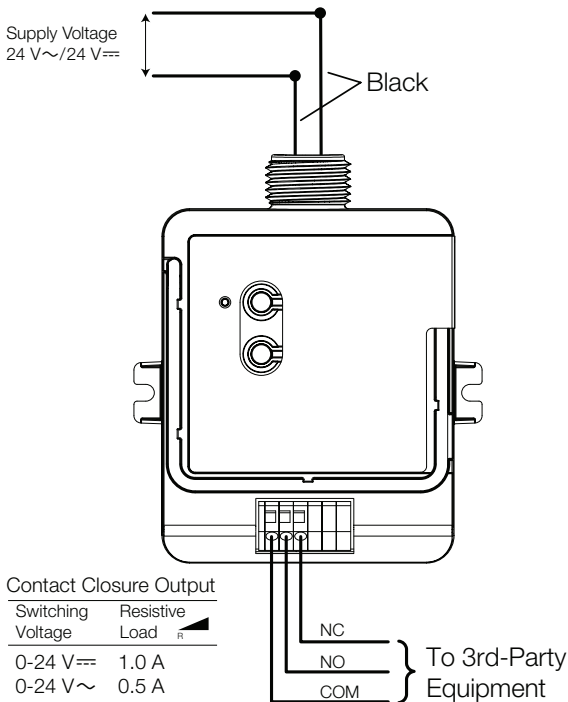


Job Name:	Model Numbers:
Job Number:	

### System Diagram

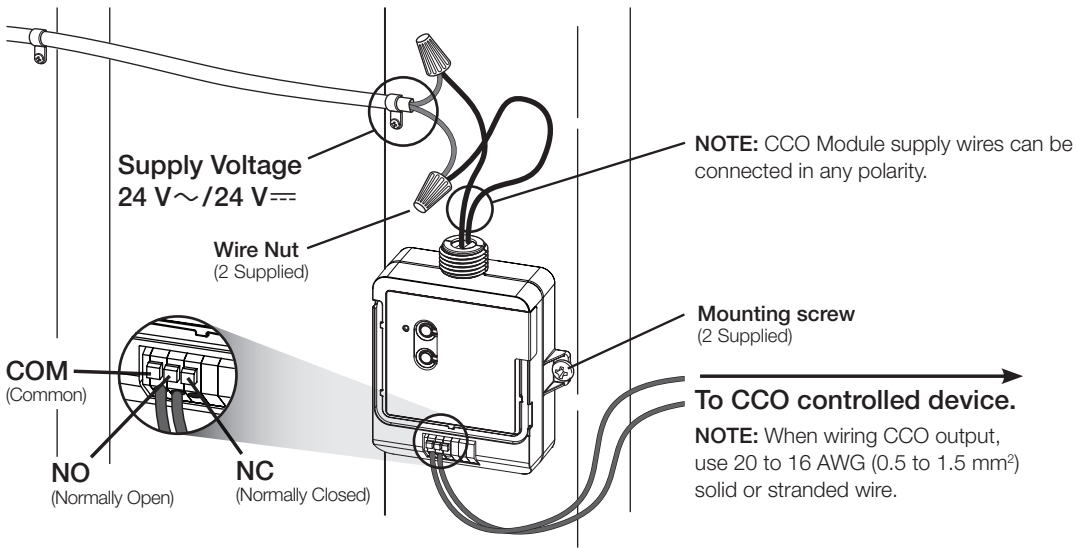


### Wiring Diagram



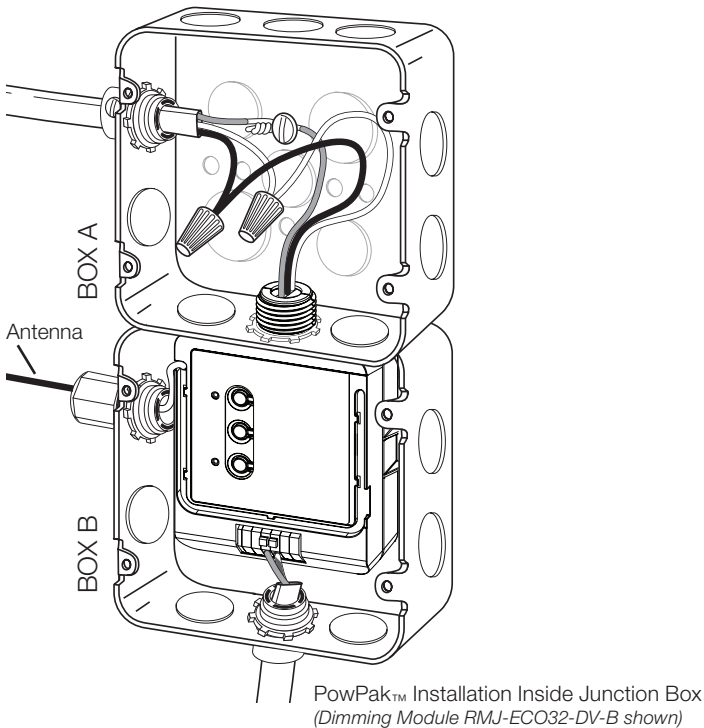
Job Name:	Model Numbers:
Job Number:	

# Wiring Diagram



**NOTE:** The CCO output may be wired using either the NO or NC terminal. Refer to the Default Operation chart on page 6 for more information regarding the behavior of the CCO output terminals.

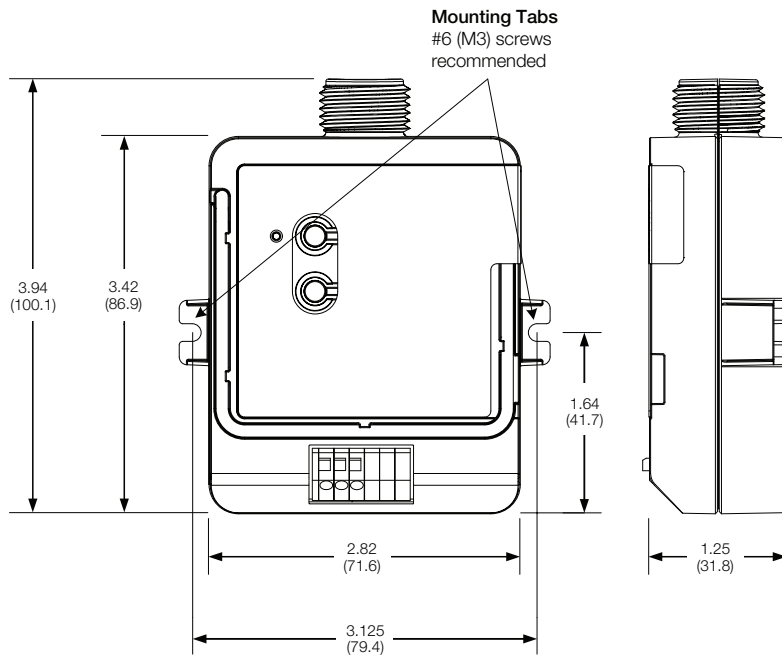
In some applications, a PowPak™ module can be installed inside a 4 in x 4 in (102 mm x 102 mm) junction box. For information about how to perform this installation, please see Application Note #423 (p/n 048423).



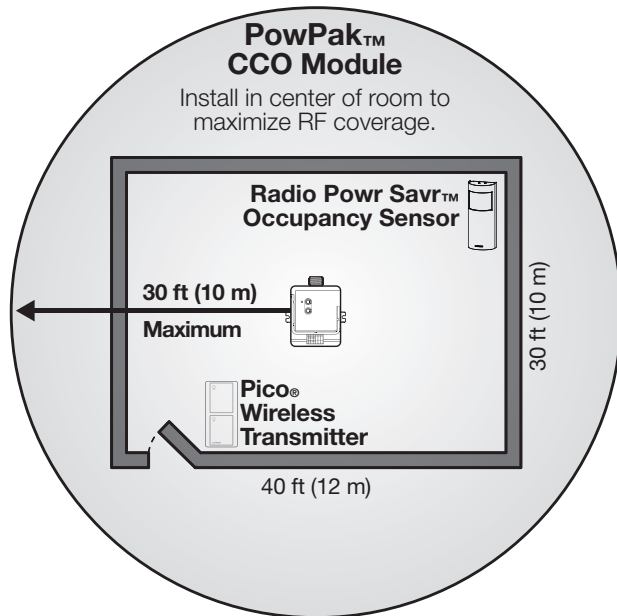
<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	

## Dimensions

Dimensions are shown as: in (mm)



## Range Diagram



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

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

Job Name:	Model Numbers:
Job Number:	

## Default Operation

Transmitting Device	Transmitted Command	CCO Default Action
Pico® Wireless Control	On	NO = Close, NC = Open
	Off	NO = Open, NC = Close
	Raise	No Action
	Lower	No Action
	Preset	NO = Close, NC = Open
Radio Powr Savr™ Occupancy Sensor	Occupied	NO = Close, NC = Open
	Unoccupied	NO = Open, NC = Close
Radio Powr Savr™ Vacancy Sensor	Occupied	No Action
	Unoccupied	NO = Open, NC = Close
Radio Powr Savr™ Daylight Sensor	Ambient Light Below Target Level	NO = Close, NC = Open
	Ambient Light Above Target Level	NO = Open, NC = Close

<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	