

PowPak™ Relay Module with SoftSwitch®

The *PowPak* Relay Module with *SoftSwitch* is a radio frequency (RF) device that uses Lutron patented *SoftSwitch* technology to control up to 16 A of general-purpose load based on input from Pico® controls and Radio Powr Savr™ occupancy and daylight sensors. An optional, low-voltage dry contact closure output is available to communicate occupancy status to 3rd-party systems such as HVAC controllers.

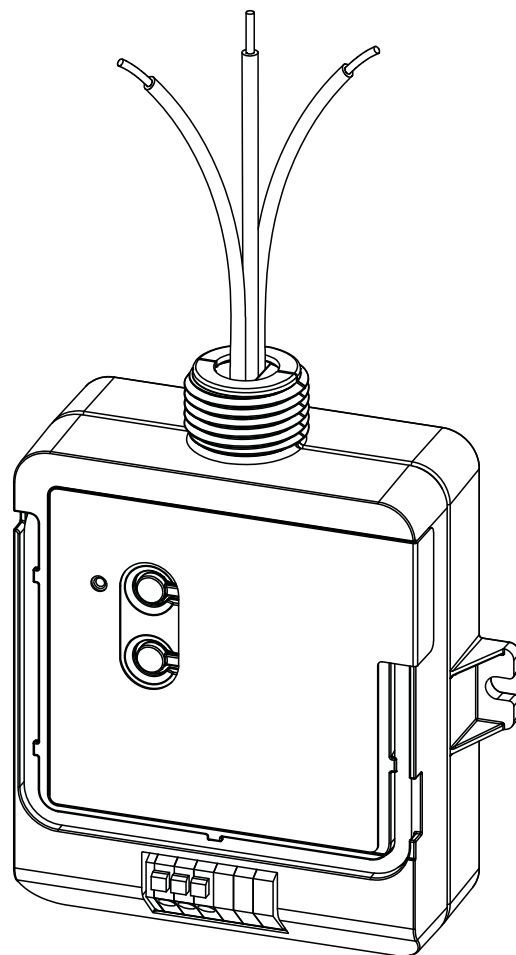
Communication between RF input devices such as *Pico* controls and *Radio Powr Savr* sensors is accomplished using Lutron Clear Connect™ RF Technology.

Features

- *SoftSwitch*: Lutron patented technology prevents arcing of relay contacts, extending product lifetime
- Receives wireless inputs from up to nine *Pico* controls, six *Radio Powr Savr* occupancy/vacancy sensors, and one *Radio Powr Savr* daylight sensor
- Lutron *Clear Connect* RF Technology – operates in a 434 MHz band
- Operates at 120 V~ or 277 V~
- Capable of switching 16 A of general-purpose loads
- Optional low-voltage dry contact closure output provides integration to building management systems, HVAC, VAV, etc.
- 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 Numbers:

- RMJ-16R-DV-B *PowPak* Relay Module with *SoftSwitch*
- RMJ-16RCCO1-DV-B *PowPak* Relay Module with *SoftSwitch* and Occupancy-Status CCO



Job Name:	Model Numbers:
Job Number:	

Specifications

Regulatory Approvals

- 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
- NOM and SCT (pending)

Power

- Operating voltage: 120 V~ / 277 V~ 50/60 Hz 1 W

System Communication

- Operates at 434 MHz via Clear Connect™ RF Technology for reliable wireless communication
- 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

SoftSwitch® (120 V~ / 277 V~)


- Patented *SoftSwitch* circuit eliminates relay arcing at mechanical contacts
- Extends relay life to an average of 1 million cycles

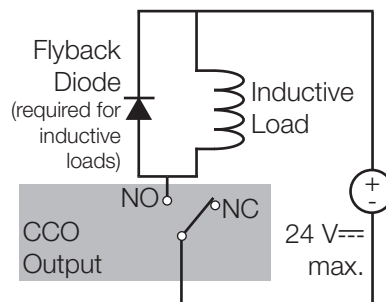
Load

- Maximum load: 16 A general purpose. No minimum load requirements.
- Load types include (but are not limited to):
 - Incandescent
 - MLV
 - ELV
 - Resistive
 - Inductive
 - Magnetic fluorescent
 - Electronic fluorescent
- Motor rating: 0.5 HP (120 V~), 1.5 HP (277 V~)

Contact Closure Output (CCO version only)

- Provides occupancy status to 3rd-party equipment such as building management systems, HVAC, and VAV controllers
- Provides both normally open (NO) and normally closed (NC) dry contacts
- Provides maintained output signals only
- CCO terminals accept 20 to 16 AWG (0.5 to 1.5 mm²) solid or stranded wire
- 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.
- Not for voltages greater than 24 V

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

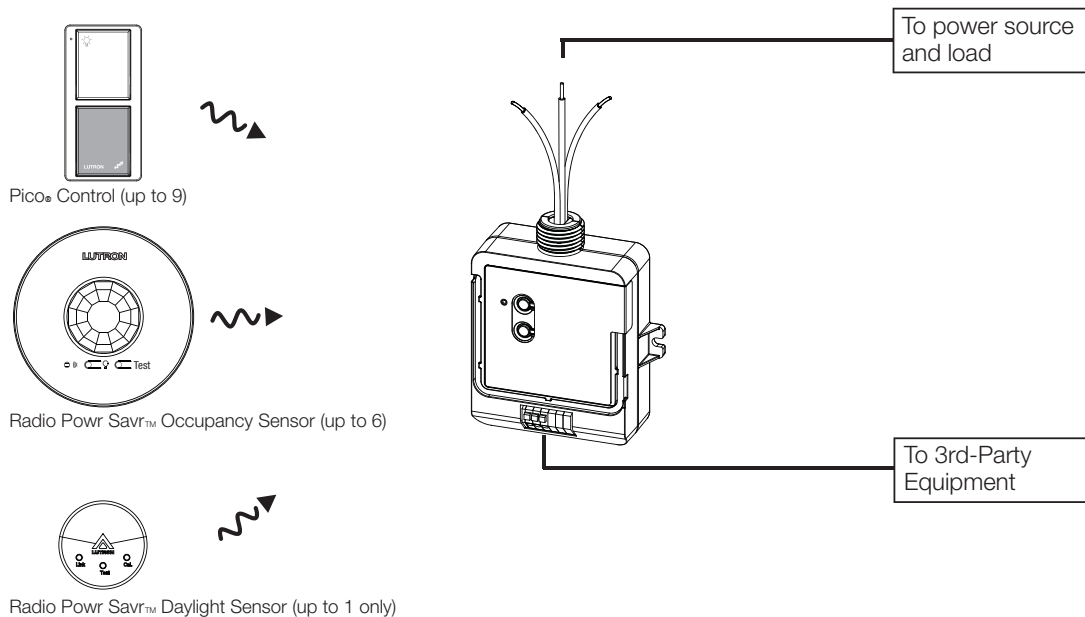


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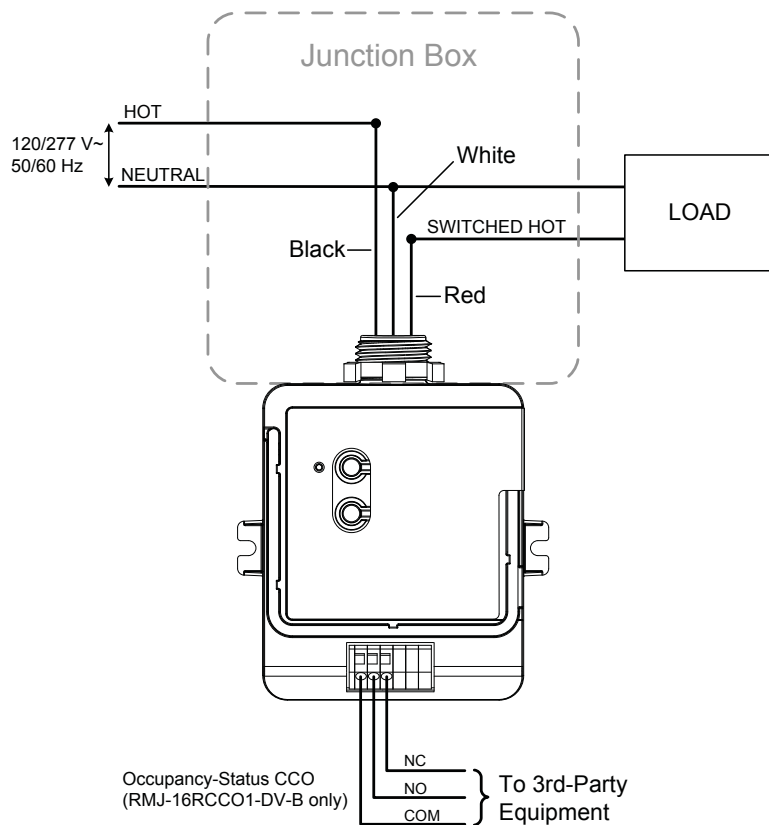
Model Numbers:

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System Diagram



Wiring Diagram



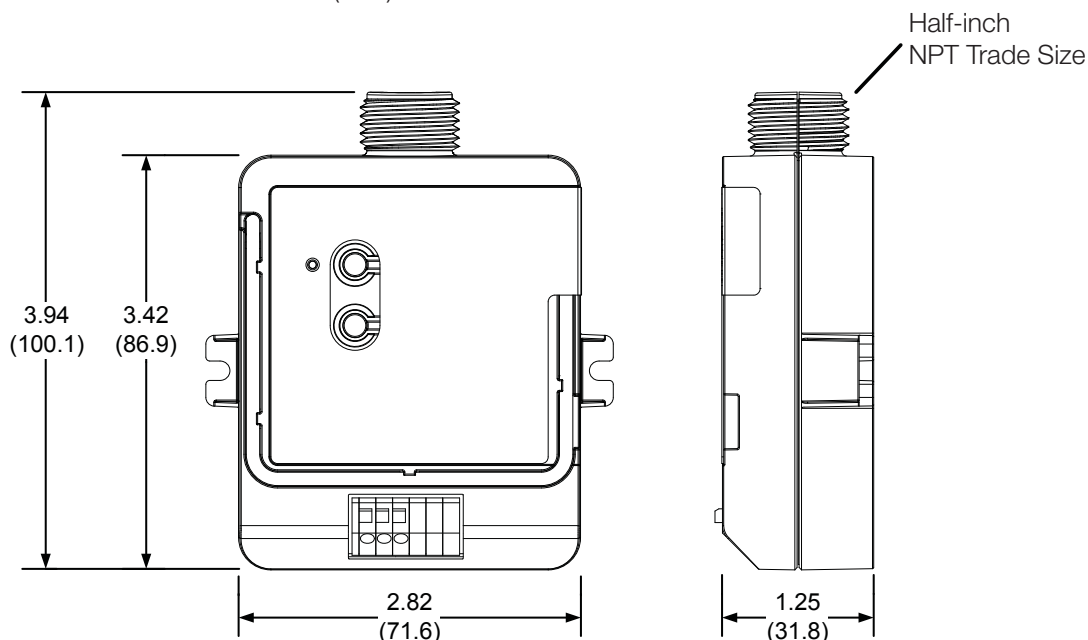
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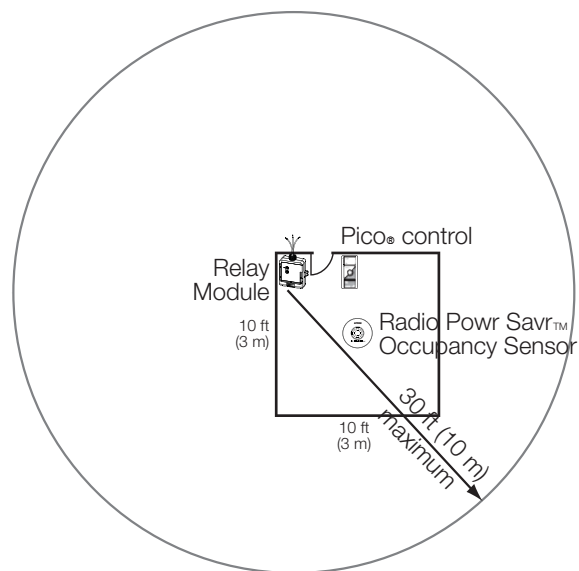
Dimensions

Dimensions are in inches (mm)



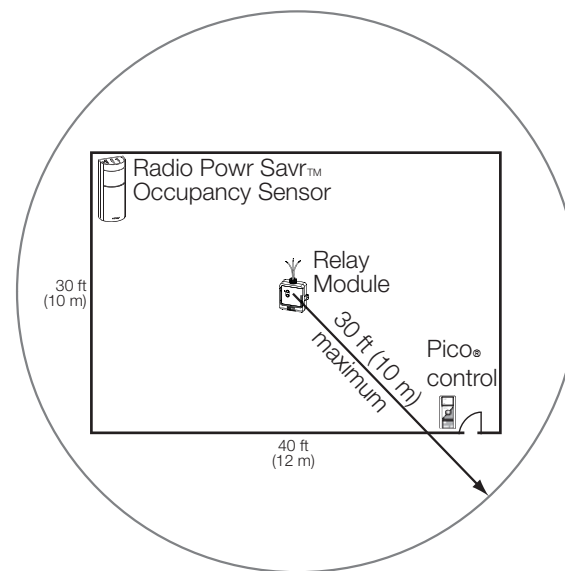
Range Diagrams

Smaller Space



In smaller spaces such as private offices (where the longest room dimension is less than 21 ft/6 m), place the module above the door to facilitate locating it after installation.

Larger Space



In larger spaces such as conference rooms (where the longest room dimension is greater than 21 ft/6 m), place the module in the center of the room to ensure RF coverage.

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

Job Name:	Model Numbers:
Job Number:	

Default Operation

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

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