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PowPak_® 20 A Receptacle Control Relay Module

The PowPak_® 20 A Relay Receptacle Control Module is a radio-frequency (RF), receptacle switching solution that is capable of controlling 20 A receptacles based on input from Pico_® remote controls and Radio Powr Savr_™ occupancy sensors.

Communication with RF input devices, such as Pico_® remote controls and/or Radio Powr Savr_™ occupancy/vacancy sensors, is accomplished using Lutron_® Clear Connect_® RF Technology.

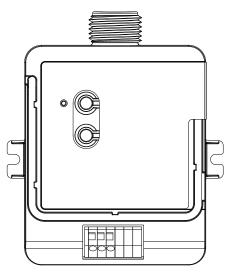
These products are also compatible with the Vive_{TM} hub which enables a simple setup process using a standard web browser on any Wi-Fi enabled phone, tablet or computer. The hub also enables control and monitoring of all Vive_{TM} devices. The Vive_{TM} hub can be added at any time and preserves existing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

Note for Replacement: RMJS-20R-DV-B or RMJS-20RCCO1DV-B can replace RMJ-H20R-DV-B.

NOTE: Not intended for control of permanently installed lighting fixtures.

Features

- Softswitch_®: Lutron_® patented technology prevents arcing of relay contacts, extending product lifetime
- Optional low-voltage dry contact closure output provides integration to HVAC, VAV, etc.
- Receives wireless inputs from up to 10 Pico_® remote controls, and 10 Radio Powr Savr™ occupancy/vacancy sensors



RMJS-20RCCO1DV-B model shown

- RoHS Compliant
- Able to control 20 A receptacles
- Capable of switching general-purpose loads
- Utilizes Lutron_® Clear Connect_® RF Technology
- Mounts to a U.S. style junction box through a standard 1/2 in (12.7 mm) size knockout
- Complies with requirements for use in a compartment handling environmental air (plenum) per NEC_® 2014 300.22(C)(3)
- Includes required controlled outlet labels for code compliance
- Provides a fail safe mechanism to turn on the output in the event of a missing sensor

Model Numbers

Description	Model Number	Region	Operating Voltage	Frequency Band
PowPak _® 20 A Receptacle Control Relay Module	RMJS-20R-DV-B	USA, Canada, Mexico (TAA/NAFTA approved)	120/277 V∼	431.0 – 437.0 MHz
PowPak _® 20 A Receptacle Control Relay Module with Contact Closure Output	RMJS-20RCCO1DV-B	USA, Canada, Mexico (TAA/NAFTA approved)	120/277 V∼	431.0 – 437.0 MHz

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Specifications

Regulatory Approvals

- UL 508 Listed (USA)
- UL 2043 Plenum Rated (USA)
- FCC approved. Complies with the limits for a Class B device, pursuant to Part 15 of the FCC rules. (USA)
- IC (Canada)
- CSA compliant (Canada)
- NOM and COFETEL compliant (Mexico)

Power

- Operating voltage:
 120/277 V ~ 50/60 Hz
- Standby Power Consumption (all models): < 1.25 W

System Communication

- Operates using Clear Connect_® RF Technology for reliable wireless communication.
- RF range is 30 ft (9 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

Softswitch_®

- Patented Softswitch_® circuit eliminates relay arcing at mechanical contacts
- Output is non-latching

	Relay Ratings	
Load Type	120-277 V∼ single phase only RMJS-20R-DV-B RMJS-20RCCO1DV-B	
Tungsten	20 A	
AC General Use	20 A	
Resistive	20 A	
Inductive	20 A	
Motor	1.0 HP 120 V∼ 2.0 HP 277 V∼	

Load

- 20 A; No minimum load requirements. Rated to control 20 A receptacles.
- Motor rating:
 - 1.0 HP (120 V~), 2.0 HP (277 V~)
- The 20 A Receptacle Control Relay Module may be used with, but is not limited to, the following:
 - Monitors– Fans
 - Humidifiers– Printers

NOTE: Refer to the manufacturer's guidelines for acceptable switching methods.

- The 20 A Receptacle Control Relay Module may NOT be suitable for use with devices that require any of the following:
 - Shut-down process before power is interrupted, such as computers.
 - Cool-down process before power is interrupted, such as projectors.
 - Programming, such as clocks or DVRs.
 - Long warm-up cycle.
- Not for use with loads that present a hazard if automatically energized. For example, heaters.
- Any receptacles that are controlled by an automatic control device must be marked with "∪"located on the controlled receptacle outlet where visible after installation as stated in 2014 NEC_® Article 406.3(E).

NOTE: Labels with this marking "o" are included with the product.

Key Design Features

- LED status indicator illuminates when a button is pressed and turns off 2 seconds after the button is released
- Power failure memory: If power is interrupted, connected receptacles will return to the state prior to the power interruption.

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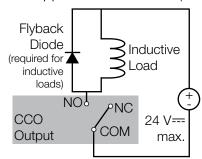
Specifications (cont.)

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
- Maintained output type
- CCO terminals accept 20 AWG to 16 AWG (0.5 mm² to 1.5 mm²) solid or stranded wire

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

- Output is latching
- Not for voltages greater than 24 V===
- 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).



NOTE: Do not tie the CCO to ground.

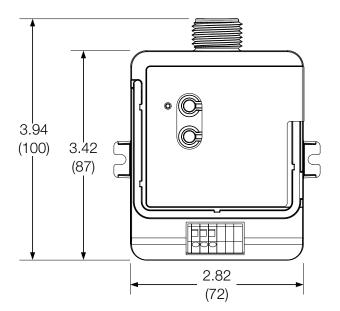
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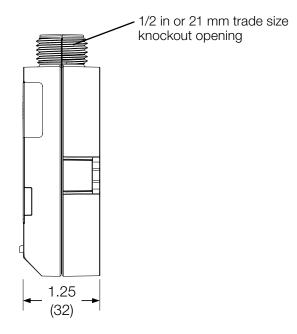
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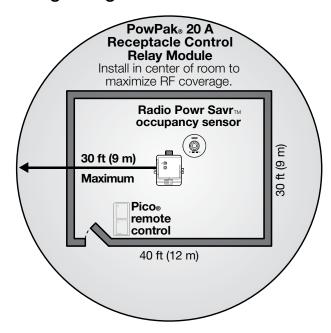
Dimensions

Dimensions are shown as: in (mm)





Range Diagrams



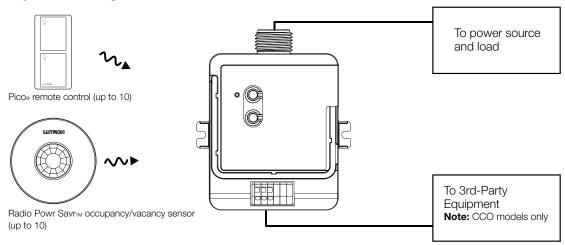
All Wireless Transmitters must be installed within 30 ft (9 m) of the PowPak_® Receptacle Control Relay Module.

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System Diagram



Default Operation

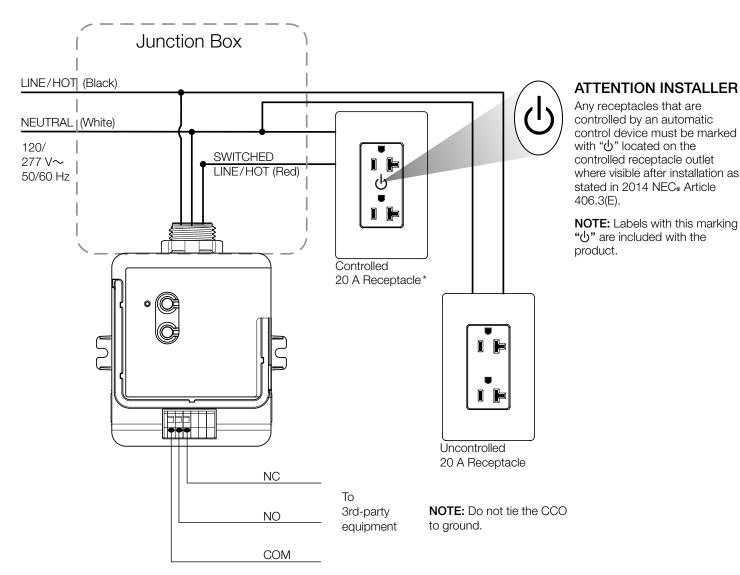
Transmitting Device	Transmitted Command	Softswitch _® Relay Default Action	CCO Default Action
Pico _®	On	Close	No Action
remote control	Off	Open	No Action
	Raise	No Action	No Action
	Lower	No Action	No Action
	Preset	Close	No Action
Radio Powr Savr™	Occupied	Close	NO = Close, NC = Open
occupancy sensor	Unoccupied	Open	NO = Open, NC = Close
Radio Powr Savr™	Occupied	Close	NO = Close, NC = Open
vacancy sensor	Unoccupied	Open	NO = Open, NC = Close

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Wiring Diagram - for Duplex Receptacle



NOTE: Some applications (in USA) require the PowPak_® 20 A Receptacle Control Relay Module to be installed inside an additional junction box. For information about how to perform this installation, please visit www.lutron.com, Application Note #423 (P/N 048423). Please consult all local and national electric codes for proper installation methods.

* Important Note



WARNING: Entrapment Hazard. To avoid the risk of entrapment, serious injury, or death, these controls must not be used to control equipment which is not visible from every control location or which could create hazardous situations such as entrapment if operated accidentally.



WARNING: Fire Hazard. To avoid the risk of fire, serious injury, or death, these controls must not be used to control equipment which is not visible from every control location or which could create hazardous situations such as fire if operated accidentally.

Examples of such equipment which must not be operated by these controls include (but are not limited to) motorized gates, industrial doors, space heaters, etc. It is the installer's responsibility to ensure that the equipment being controlled is visible from every control location and that only suitable equipment is connected to these controls. Failure to do so could result in serious injury or death.

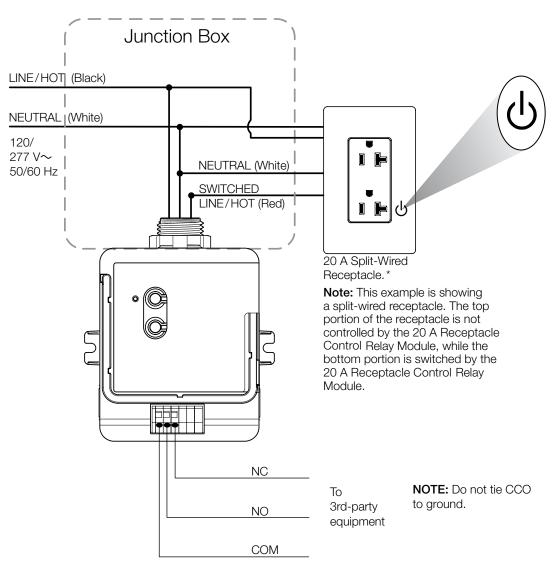
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Wiring Diagram - for Split-Wired Duplex Receptacle



ATTENTION INSTALLER

Any receptacles that are controlled by an automatic control device must be marked with "\u00f3" located on the controlled receptacle outlet where visible after installation as stated in 2014 NEC_® Article 406.3(E).

NOTE: Labels with this marking " \circlearrowleft " are included with the product.

NOTE: Some applications (in USA) require the PowPak® 20 A Receptacle Control Relay Module to be installed inside an additional junction box. For information about how to perform this installation, please visit www.lutron.com, Application Note #423 (P/N 048423). Please consult all local and national electric codes for proper installation methods.

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WARNING: Fire Hazard. To avoid the risk of fire, serious injury, or death, these controls must not be used to control equipment which is not visible from every control location or which could create hazardous situations such as fire if operated accidentally.

Examples of such equipment which must not be operated by these controls include (but are not limited to) motorized gates, industrial doors, space heaters, etc. It is the installer's responsibility to ensure that the equipment being controlled is visible from every control location and that only suitable equipment is connected to these controls. Failure to do so could result in serious injury or death.

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