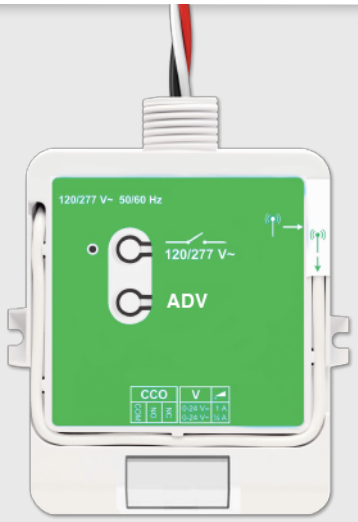
Project name _____

Prepared by _____

Date / /

AirLink™ enabled by Lutron® 20AMP Plug Load Controller



Catalog#: **ALPP 20A or ALPP 20ACC**

Part #: **624097 or 655228**

The 20AMP plug load controller is a radio-frequency (RF), receptacle switching solution that is capable of controlling 20A receptacles based on input from wireless switches and ceilingmounted wireless occupancy sensors. Communication with RF input devices, such as wireless switches and/or ceiling-mounted wireless occupancy/vacancy sensors, is accomplished using Lutron Clear Connect RF Technology.

Applications Small offices | Conference rooms | Classrooms | Lounges

Features

- All AirLink wireless controls are compatible with the wireless 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 wireless devices
- Able to control 20A receptacles
- Capable of switching general-purpose loads
- Receives wireless inputs from 10 wireless switches and 10 ceiling-mounted wireless occupancy/vacancy sensors
- Mounts to a U.S. style j-box via a standard size knockout
- Heavy duty mechanically held, latching relays, with silver alloy contacts
- Zero cross switching
- Required controlled outlet labels for code compliance
- Provides a fail safe mechanism to turn on the output in the event of a missing sensor
- LED status indicator shows current load status and provides programming feedback
- If power is interrupted, connected receptacles will return to the state prior to the power interruption
- Zero cross switching and heavy-duty relays
- Patented Softswitch circuit eliminates relay arcing at mechanical contacts, output is non-latching

Specifications

Regulatory Approvals

- UL® 508 Listed (USA)
- FCC approved. Complies with the limits for a Class B device, pursuant to Part 15 of the FCC rules (USA)
- IC and CSA (Canada)
- NOM and COFETEL (Mexico)
- Complies with requirements for use in other spaces used for environmental air (plenum) per NEC® 2014 300.22(C)(3)
- Listed in accordance to CAN/ULC S102.2-2010 with a Flame Spread Rating of 0 and a Smoke Developed Classification of 40, with a minimum spacing of 6ft (1.83m) off center

Certifications & Affiliations

UL LISTED | LUTRON Clear Connect Wireless | FC | IC Canada: Industry Canada (IC) | NOM | CSA

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Specifications (continued)

Power / Load

- Operating voltage: 120 – 277 V ~ 50/60 Hz
- Standby power consumption < 1.25W
- 20A: No minimum load requirements
- Load types include (but are not limited to): Incandescent, MLV, ELV, Resistive, Inductive
- Motor rating: 1.0 HP (120V ~), 2.0 HP (277V ~)
- Able to control 20A of receptacles
- The 20A plug load controller may be used with (but not limited to): monitors, fans, printers, humidifiers (Note: refer to manufacturer's guidelines for acceptable switching methods)
- The 20A plug load controller 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 NECR Article 406.3(E).

Environmental

Ambient Operating Temperature: 32°F to 131°F (0°C to 55°C), 0–90% humidity, non-condensing; indoor use only

Range

- Lutron Clear Connect RF Technology allows for 30ft (10m) of range

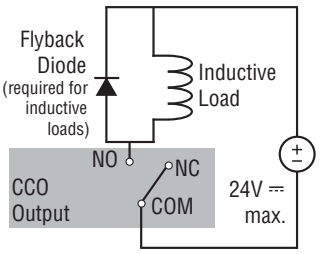
Other

- Warranty: limited 5-year warranty

Contact Closure Output (CC version only)

- Provides occupancy status to 3rd-party equipment such as building management systems, HVAC, and VAV controllers
- Provides both normally open (MNO) and normally closed (NC) dry contacts
- Maintained output type
- CCO terminals accept 20 to 16AWG (0.5 to 1.5mm2) solid or stranded wire
- Output is latching
- Not for voltages greater that 24V
- The CCO is not rated to control unclamped inductive loads. Inductive loads include, but not limited to: relays, solenoids and motors. To control these equipment types, a flyback diode must be used (DC voltages only)

Conact Closure Output Diagram



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

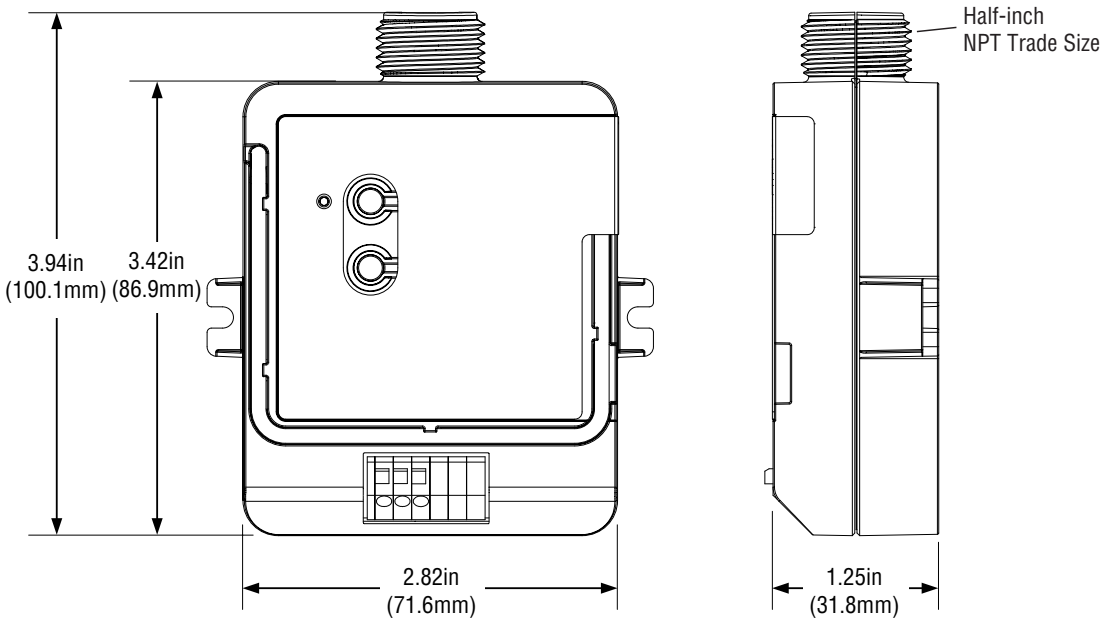
Ordering Information

Part #	Catalog #	Description
624097	ALPP 20A	AirLink System — 20AMP Plug Load Controller
655228	ALPP 20ACC	AirLink System — 20AMP Plug Load Controller, contact closure

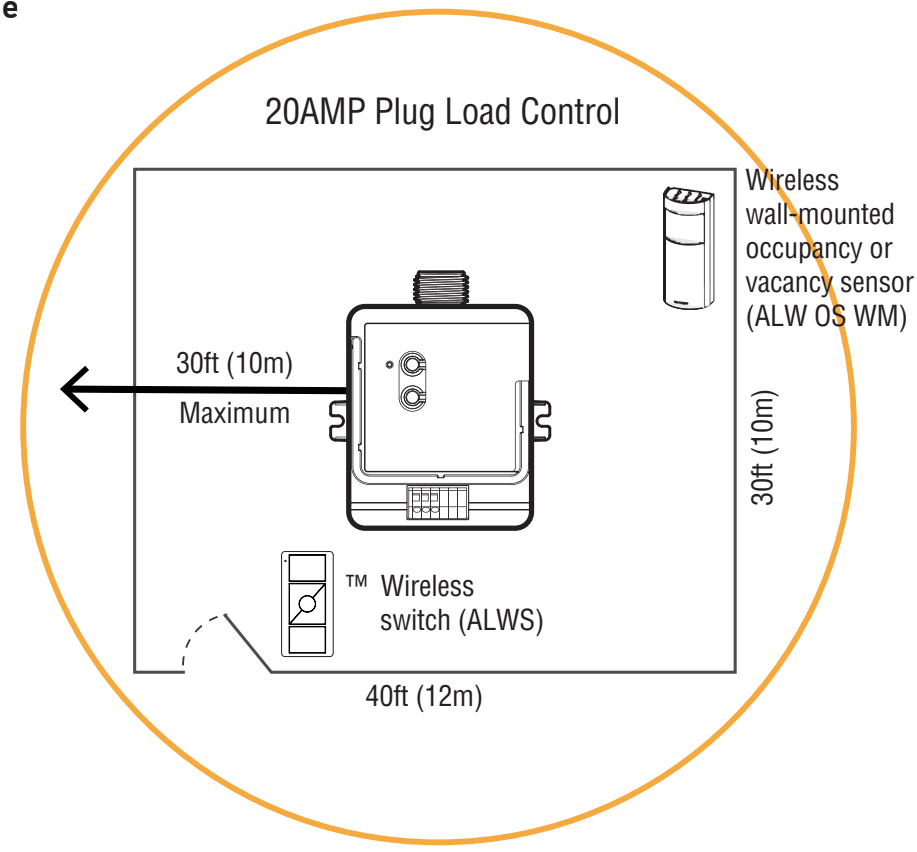
AirLink™ enabled by Lutron®

20AMP Plug Load Controller

Dimensions



Fixture Range



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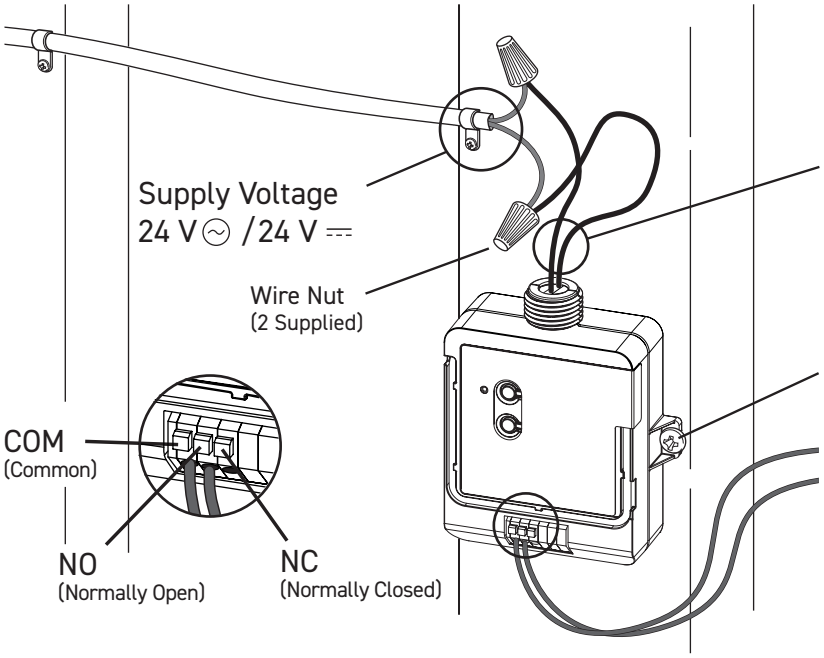
20AMP Plug Load Controller

Wiring Diagram



NOTE: models are supplied with three twist-on wire connectors

NOTE: CCO Module supply wires can be connected to any polarity

Mounting screw
(2 Supplied)

To CCO controlled device.

NOTE: When wiring CCO output, use 20 AWG to 16 AWG (0.5 mm^2 to 1.5 mm^2) solid or stranded wire.

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.

NOTE: Some applications (in USA) require the module to be installed inside an additional junction box.

***WARNING - ENTRAPMENT/FIRE 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. 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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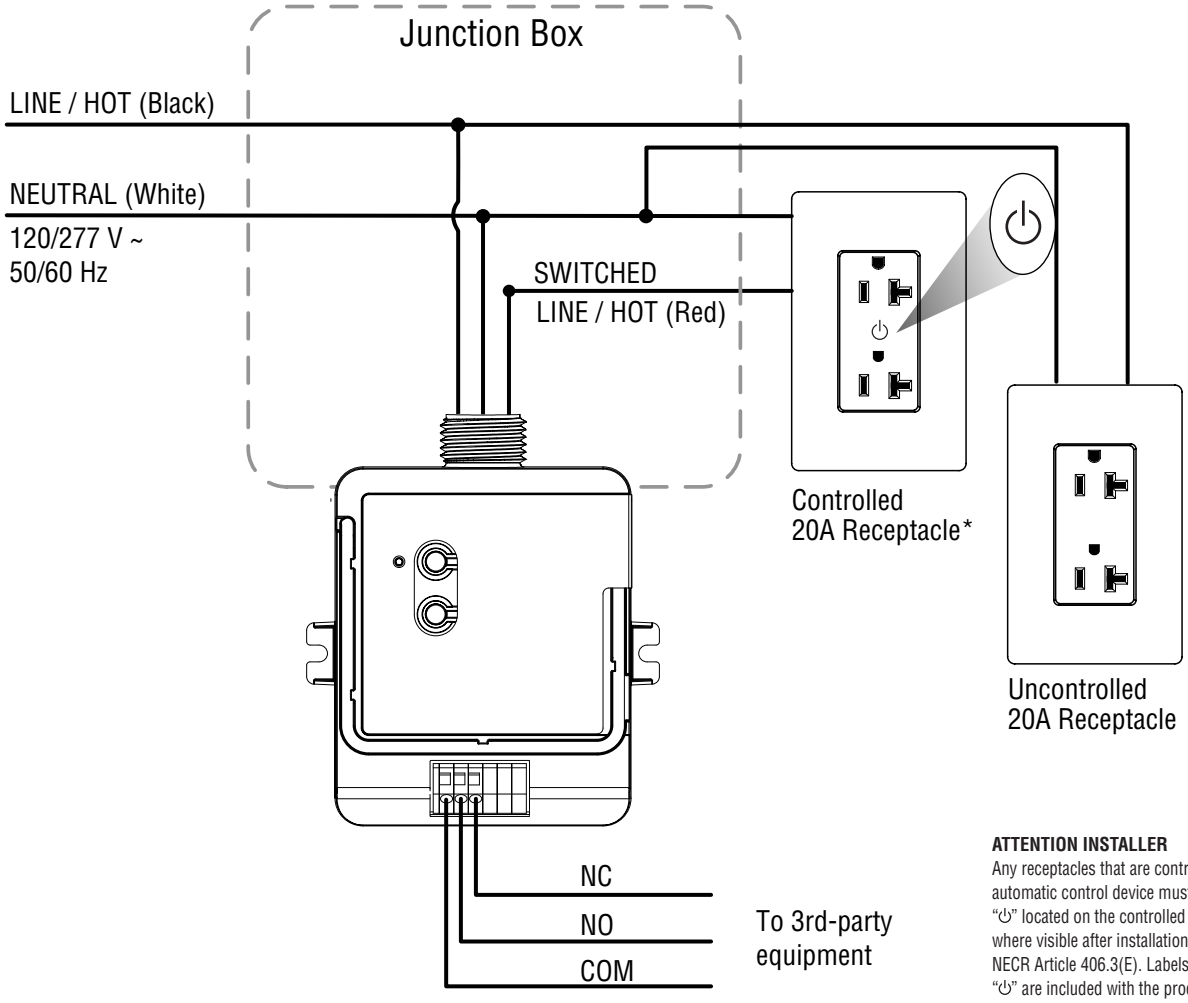
20AMP Plug Load Controller

Wiring Diagram for Duplex Receptacle



ATTENTION INSTALLER
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 NECR Article 406.3(E). Labels with this marking "⏻" are included with the product.

NOTE: Do not connent the CCO to ground.

NOTE: Some applications (in USA) require the module to be installed inside an additional junction box.

NOTE: Some applications (in USA) require the module to be installed inside an additional junction box.

***WARNING - ENTRAPMENT/FIRE 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. 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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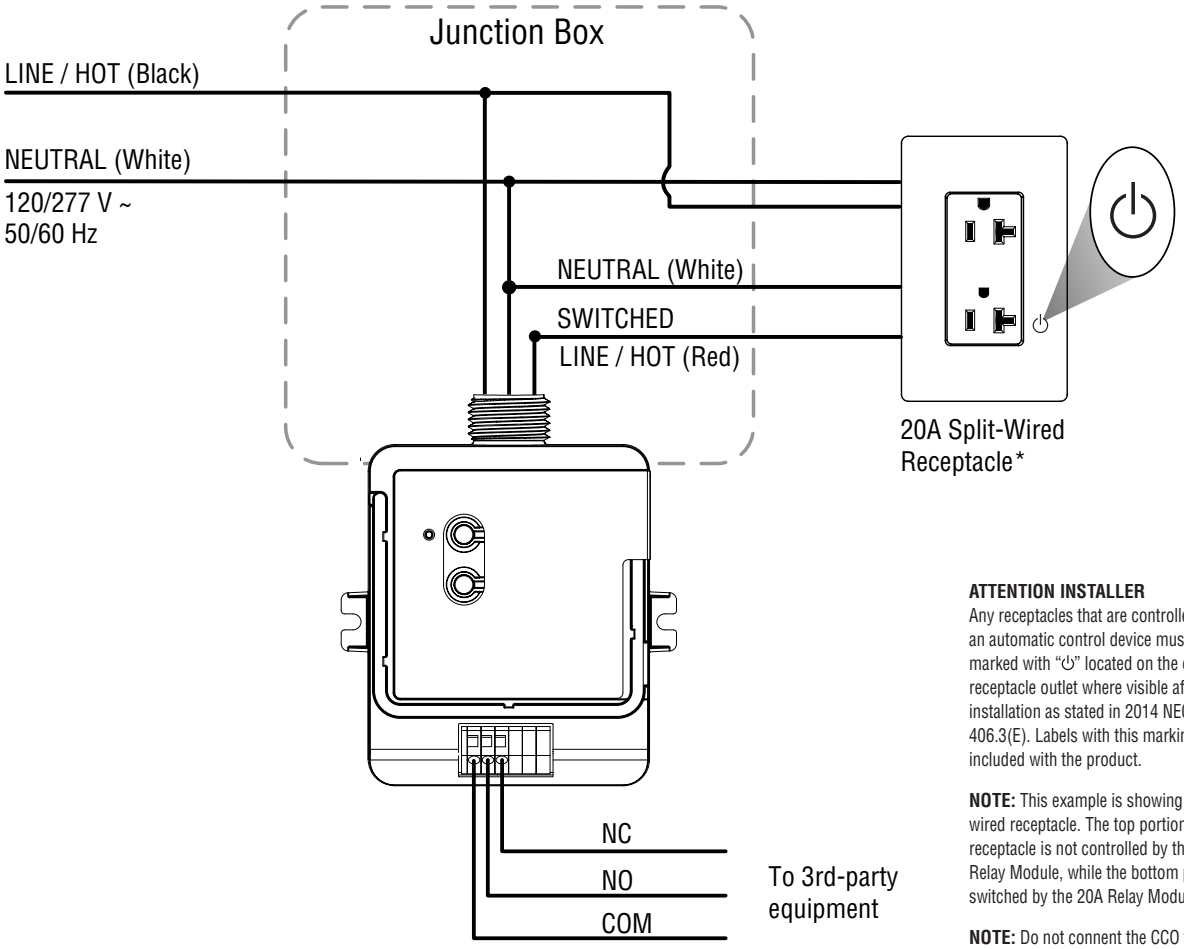
20AMP Plug Load Controller

Wiring Diagram for Split-Wired Duplex Receptacle



ATTENTION INSTALLER
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 NECR Article 406.3(E). Labels with this marking "⏻" are included with the product.

NOTE: This example is showing a split-wired receptacle. The top portion of the receptacle is not controlled by the 20A Relay Module, while the bottom portion is switched by the 20A Relay Module.

NOTE: Do not connent the CCO to ground.

NOTE: Some applications (in USA) require the module to be installed inside an additional junction box.

***WARNING - ENTRAPMENT/FIRE 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. 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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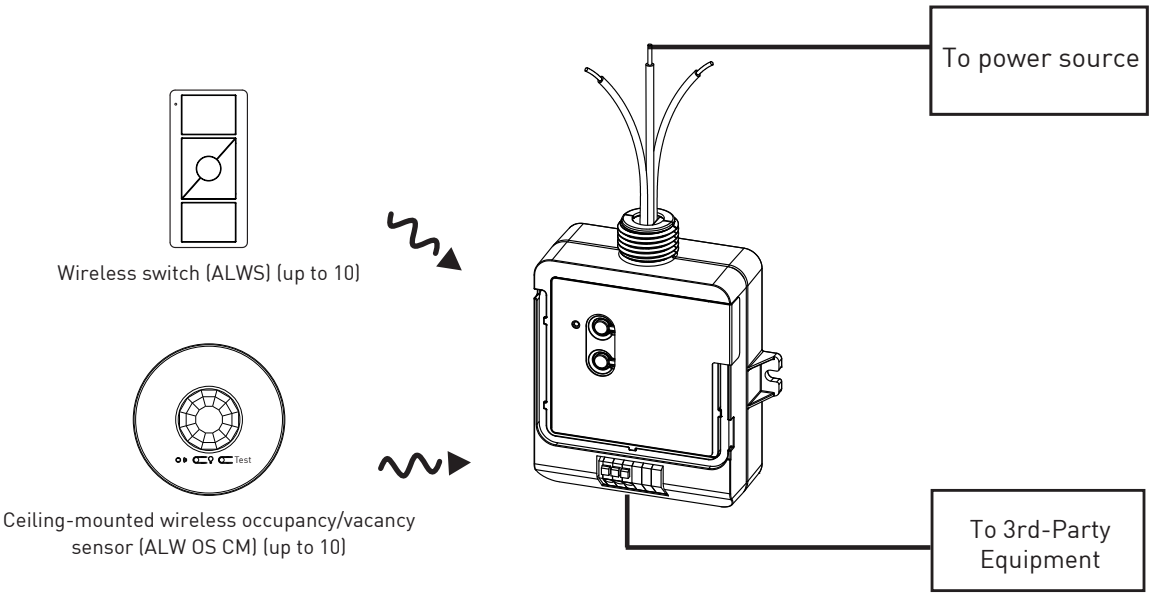
System Diagram



Default Operation

Transmitting Device	Transmitted Command	Default Action
Wireless Switch	On	Close
	Off	Open
	Raise	No Action
	Lower	No Action
	Preset	Close
Ceiling-Mounting Wireless Occupancy Sensor	Occupied	Close
	Unoccupied	Open
Ceiling-Mounted Wireless Vacancy Sensor	Occupied	Close
	Unoccupied	Open

Note: Unaffected Mode allows a system with an Occupancy sensor associated to multiple relay modules to be set up such that only selected loads turn on automatically. Other loads will require a manual turn-on with a wireless switch. All loads will turn off automatically when the room is vacated. See the 20A plug load controller installation guide for more information on Unaffected Mode.

AirLink™ enabled by Lutron® 20AMP Plug Load Controller

The AirLink System

Wireless controls & sensors

Wireless remotes & switches

Occupancy/Vacancy & Daylight sensors

AirLink-integrated Fixtures

AirLink-compatible Fixtures

Plug load controllers

Centralized control & integration

Clear Connect Wireless

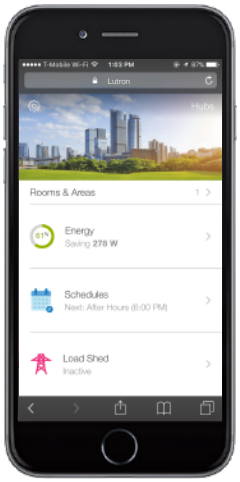
Wireless hub

Wired / Ethernet

Demand Response

BACnet integration

Simple-to-use software



Lighting control web app

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More information
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