AirLink™ 5AMP Power Pack
enabled by Lutron®

Project name

Prepared by

Date

**Catalog #: ALPH___ **
** or A___**

Part #: ___ 1 or 6 ___ 9

The 5AMP power p___ ___upancy
device that controls ___ ___ ___ purpose
load based on input f___
ceiling-mounted wirel___
sensors. An optional lo___
closure output is availab___
occupancy status to 3rd-___
HVAC controllers. Comm___
devices, such as wireless s___ches & ceiling-mou___
wireless sensors, is accomp___hed 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

- Capable of switching 5A of general-purpose loads

- Optional low-voltage dry contact closure output provides integration to building management systems, HVAC, VAV, etc.

- Receives wireless inputs from up to 10 wireless switches, 10 ceiling-mounted wireless occupancy/vacancy sensors & 1 ceiling-mounted wireless daylight sensor

- Mounts to a junction box through a standard half-inch (NPT trade size) knockout

- LED status indicator shows current load status & provides programming feedback

- Power failure memory: If power is interrupted, connected loads will return to the previous level prior to interruption

- Daylighting can be overriden by pressing the ON button on any associated wireless switch. Daylighting is re-enabled after 2 hours or after the room become unoccupied

Specifications

Regulatory Approvals

- COFETEL

- CSA & IC

- Complies with requirements for use in a compartment handling environmental air (plenum) per NEC® 2011 300.22(C)(3)

- UL Listed, UL 2043 Plenum Rated, NOM, and FCC Approved. Complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rule

Power / Load

- Operating voltage: 120 – 277 V ⏦ 50/60 Hz

- Maximum load: 5A 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: 1/6 HP (120V⏦), 1/3 HP (277V⏦)

Certifications & Affiliations

UL LISTED   Lutron Clear Connect. Wireless   FC   IC Canada: Industry Canada (IC)   NOM   CSA®

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Specifications (continued)

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

Softswitch

- Lutron's Softswitch circuit eliminates relay arcing at mechanical contacts
- Extends relay life to an average of 1 million cycles
- Output is non-latching

Conact Closure Output (CCO version only)

- Provides occupancy status to 3rd-party equipment such as building management systems, HVAC & 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 are not limited to: relays, solenoids, and motors. To control these types of equipment, a flyback diode must be used (DC voltages only)
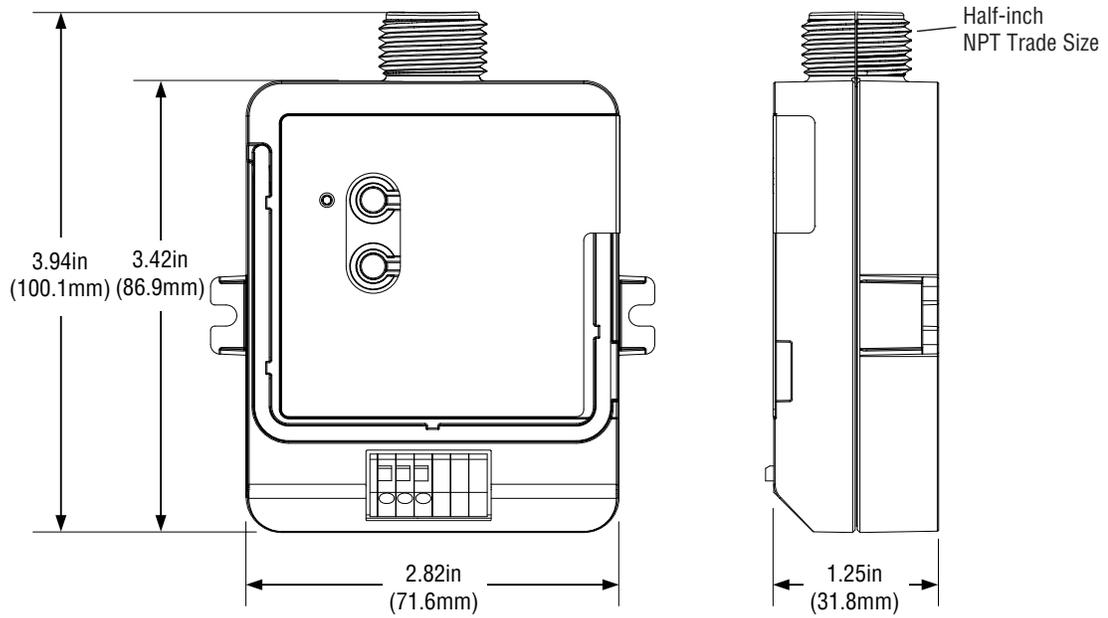
Conact Closure Output
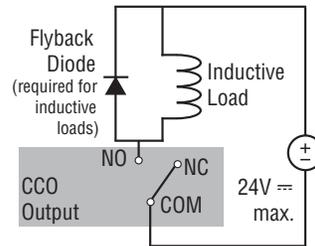
Switching Voltage	Resistive Load
0-24V —	1.0A
0-24V ∼	0.5A

Ordering Information

Part #	Catalog #	Description
632641	ALPP 5ACC	AirLink System — 5AMP Power Pack, ON/OFF, contact closure output
622559	ALPP 5A	AirLink System — 5AMP Power Pack, ON/OFF

AirLink™ enabled by Lutron® 5AMP Power Pack

Dimensions

3.94in (100.1mm)
3.42in (86.9mm)
2.82in (71.6mm)
1.25in (31.8mm)

Half-inch NPT Trade Size

Fixture Range

5AMP power pack
Install in center of room to maximize RF coverage

Wireless wall-mounted occupancy or vacancy sensor (ALW OS WM)

30ft (10m) Maximum

30ft (10m)

™ Wireless switch (ALWS)

40ft (12m)

Wiring Diagram

Junction Box

HOT

NEUTRAL

White

Black

SWITCHED HOT

Red

LOAD

NC
NO
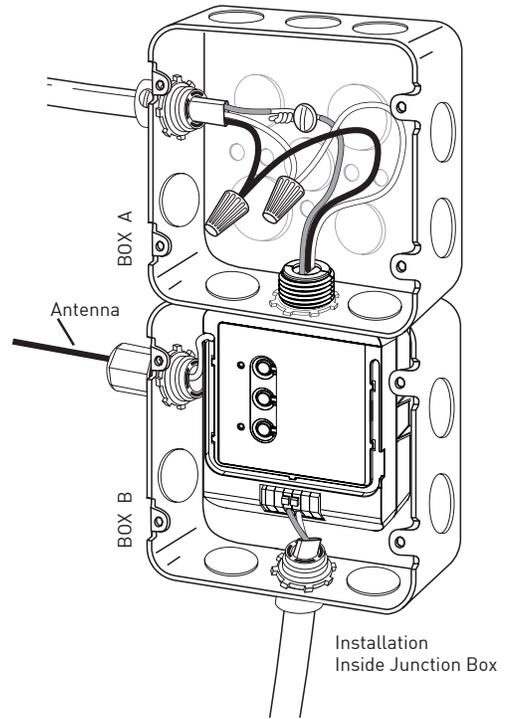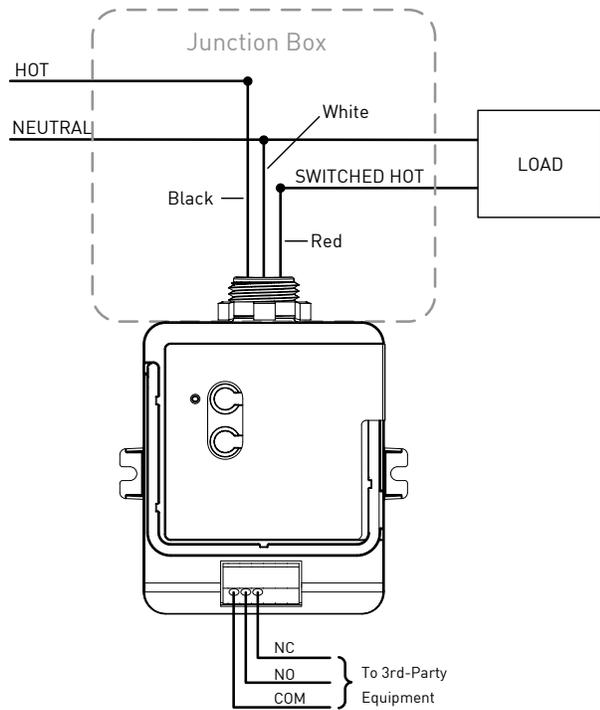COM

To 3rd-Party Equipment
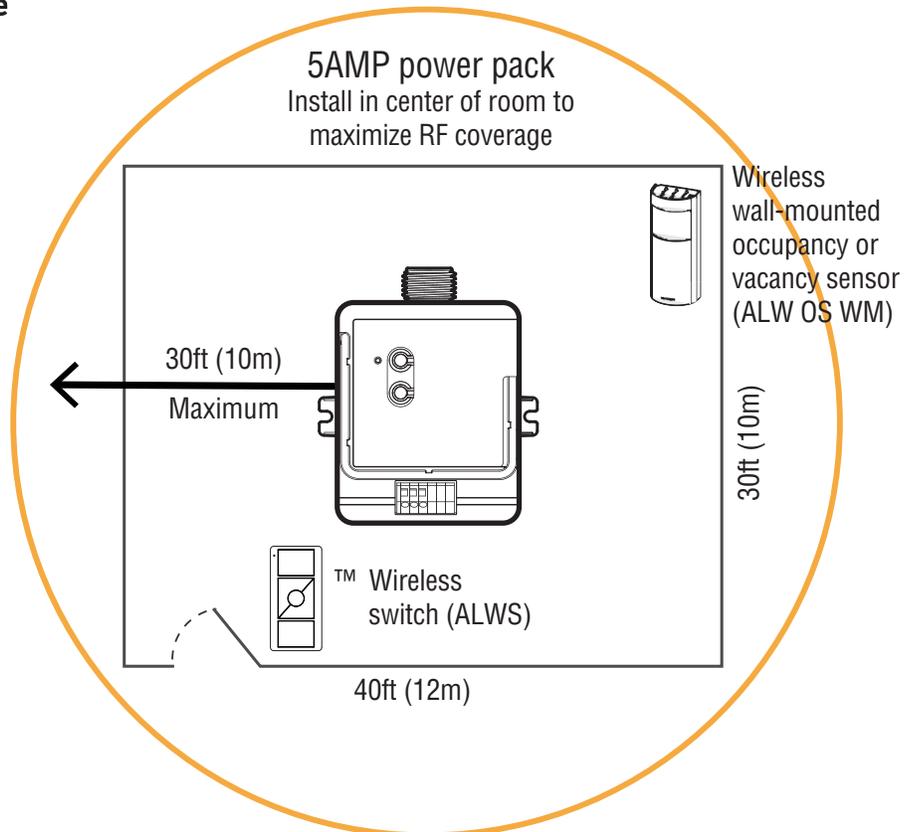
CCO Operation affected only by associated occupancy or vacancy sensors
Room Occupied: NO = Close   NC = Open
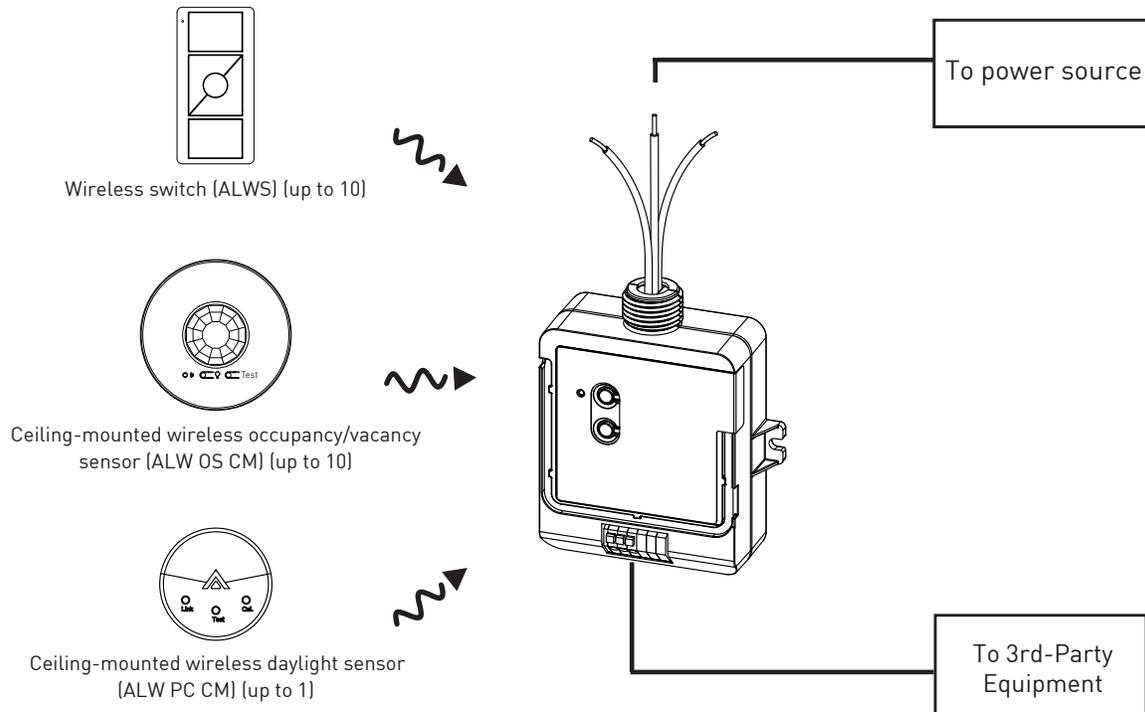**Room Unoccupied:** NO = Open   NC = Close

BOX A

Antenna

BOX B

Installation
Inside Junction Box

In some applications, an the power pack can be installed
inside a 4in X 4in (102mm X 102mm) junction box.

Input Voltage

White (Neutral)

To Load

Red
(Switched Hot)

Black (Hot)

Conduit Nut

COM
(Common)

NO
(Normally Open)

NC
(Normally Closed)

To 3rd-Party Equipment

Note: When wiring CCO to 3rd-party systems, use 20 to 16 AWG (0.5 to 1.5 mm²) solid or standed wire.

AirLink™ 5AMP Power Pack

System Diagram

Wireless switch (ALWS) (up to 10)

Ceiling-mounted wireless occupancy/vacancy sensor (ALW OS CM) (up to 10)

Ceiling-mounted wireless daylight sensor (ALW PC CM) (up to 1)

To power source

To 3rd-Party Equipment

Default Operation

Transmitting Device	Transmitted Command	Load Relay Default Action	CCO Default Action
Wireless Switch	On	Close	No Action
	Off	Open	No Action
	Raise/Lower	No Action	No Action
	Preset	Close	No Action
Ceiling-Mounting Wireless Occupancy Sensor	Occupied	Close	NO = Close NC = Open
	Unoccupied	Open	NO = Open NC = Closed
Ceiling-Mounted Wireless Vacancy Sensor	Occupied	No Action	NO = Close NC = Open
	Unoccupied	Open	NO = Open NC = Closed
Ceiling-Mounted Wireless Daylight Sensor	Ambient Light Below Target Level	Close	No Action
	Ambient Light Above Target Level	Open	No Action

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The AirLink System

Wireless controls & sensors

Wireless remotes
& switches

Occupancy/Vacancy
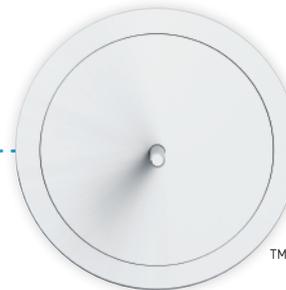& Daylight sensors

AirLink-integrated
Fixtures

AirLink-compatible
Fixtures

Plug load controllers

Centralized control & integration

Clear Connect® Wireless

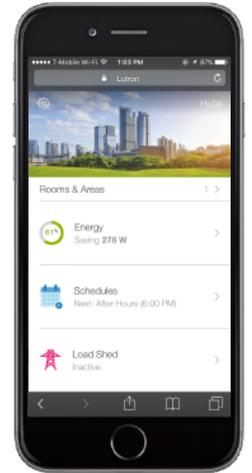Wireless hub

Wired / Ethernet

Demand
Response

BACnet
integration

Simple-to-use software

Lighting control web app

Contact LSI Controls

Sales
controls.sales@lsi-industries.com

Support
controls.support@lsi-industries.com
1 (800) 436-7800 (support, option 8)

More information
For more information on AirLink, visit our
website at **www.lsi-airlink.com/airlink**