

Wireless Control Unit

The Wireless Control Unit is a radio frequency (RF) device that uses low arc switching to control up to 16A of general-purpose load based on input from WL-series wireless controls. The low-voltage dry contact closure output communicates occupancy status to 3rd-party systems such as HVAC controllers.

Key Features

- Low arc switching reduces arcing of relay contacts, extending product lifetime
- Dual voltage 120/277V capability supports most applications with one unit
- Load capacity of 16A for general-purpose loads
- Isolated low-voltage dry contact closure output provides integration to building management systems, HVAC, VAV, etc.
- Receives wireless inputs from up to six WL-series occupancy/vacancy sensors, and one wireless daylight sensor
- 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)



*Clear Connect™ is a registered trademark of Lutron Electronics Co., Inc.



Communication Frequency

- 431.0 – 437.0 MHz
- Lutron® Clear Connect™ RF technology enabled

Transmitting Devices WL-Series Wireless Controls



WLP450C Wireless Ceiling Sensor



WLP3000W, WLP2500W and WLP150H Wireless Wall Mount Sensors



WLDH Wireless Daylight Sensor



Wireless Sensing and Load Control Devices



Wireless Control Unit

Description	Catalog Number
Wireless load control unit with isolated relay.	WLC316R

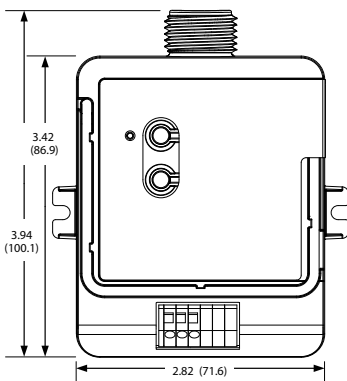
Compatible Transmitters: WLP series and WLDH sensors any Lutron Clear Connect Enabled Sensor.



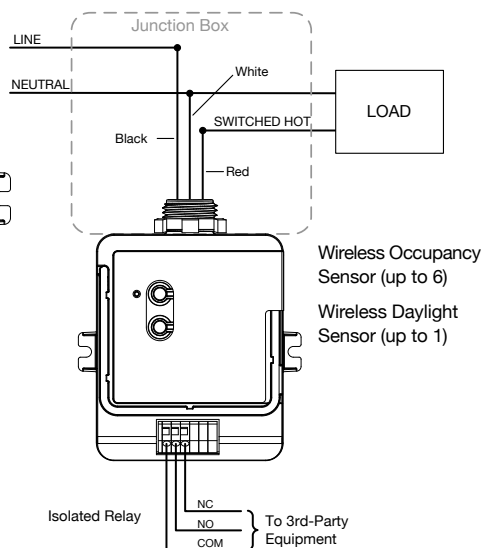
Specifications

Electrical	Operating voltage: 120/277V AC - 50/60 Hz LED status indicator: displays load status and provides programming feedback Power failure memory: (Relay returns to previous level prior to interruption) Output is non-latching							
Operating Environment	Indoor use only Ambient operating temperature: 32 °F to 131 °F (0 °C to 55 °C); Relative humidity: 0% to 90% humidity, non-condensing							
Load	Maximum load: 16A general purpose. No minimum Motor rating: 0.5 HP (120 V~), 1.5 HP (277 V~)	<table border="1"> <tr> <th>Switching Voltage</th> <th>Resistive Load</th> </tr> <tr> <td>0-24 V~</td> <td>1.0 A</td> </tr> <tr> <td>0-24 V~</td> <td>0.5 A</td> </tr> </table>	Switching Voltage	Resistive Load	0-24 V~	1.0 A	0-24 V~	0.5 A
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Isolated Relay	Normally open (NO) and normally closed (NC) dry contacts Maintained latching output The isolated relay 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 at right.							
Range	RF range is 30 ft (10 m) obstructed, 60 ft (18 m) line of sight							
Certifications	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							
Warranty	1 year							

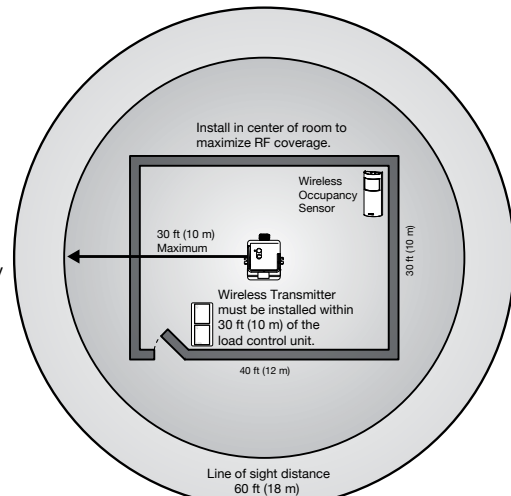
Dimensions In (mm)



Wiring Diagram



Range Diagram



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

Default Operation

Transmitting Device	Transmitted Command	Load Relay Default Action	Iso. Relay Default Action
Wireless Occupancy Sensor	Occupied	Close	NO = Close, NC = Open
	Unoccupied	Open	NO = Open, NC = Close
Wireless Daylight Sensor	Ambient Light Below Target Level	Close	No Action
	Ambient Light Above Target Level	Open	No Action