

Controls

LRA1721/LRD1730

OccuSwitch Wireless –
LRA1721 Wall Switch
LRD1730 Wall Dimmer



The LRA1721 and LRD1730 are part of the OccuSwitch Wireless family. The wireless feature adapts well to retrofit installation where pulling wires across existing ceilings is too expensive. They can be installed with the other OccuSwitch Wireless products to create a complete wireless lighting control system for a single space. Up to 16 devices (switches, dimmers, occupancy sensors & multi-sensors), can be linked for reliable automatic control of the lights.

Features

Easy-to-Install/Retrofit

- Wireless controls means no sensor wiring needed eliminating the need for ceiling mounted power packs.
- Attractive Decorator style matches building device standard.
- Self adaptive time delay tunes sensor to common activities in the space.
- Daylight configuration establishes the desired light level from the floor without accessing the sensor.
- Up to 16 devices can be linked together to control one space.
- Multi-way groups - two or more switches or dimmers can be linked to form a group for multi-way operation.

- Several groups can be linked to the same set of sensors for code compliant energy management.
- Convenient switch or dimmer based recalibration allows end-user to re-calibrate at any time without accessing the sensor.

Advance Technologies

- Processor based logic reduces false triggers to optimize energy savings and helps extend lamp life.
- White LED bar graphic clearly indicates dimming level and provides visual indication for some features during set-up (LRD1730 only).
- Maximum level (task tuning) can be set at dimmer.

- Manual ON / Auto OFF mode available to meet new energy codes.
- Manual dimming override to set special light levels when the room is occupied.
- Meets Federal Energy Mandate (Title 24, ASHRAE 90.1 & 189.1, IECC).

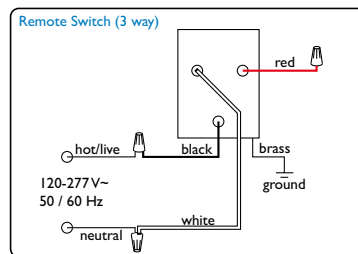
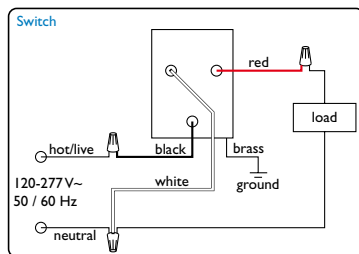
Applications

- Common applications include: classrooms, conference rooms, offices, restrooms (fan & lights), multimedia rooms, lounges, break rooms, lab spaces, storage areas, etc.

Specifications

- **Operating Voltage:** Universal - 120V AC or 277V AC, 60 Hz.
- **Load Rating (LRD1721):** Electronic Fluorescent Ballast 120V / 1300VA 277V / 1300VA Incandescent lamps 120V / 800W Motor load 120V / 0.25HP.
- **Load Rating (LRD1730):** Electronic Fluorescent Ballast 120V / 800VA 277V / 1600VA Electromagnetic Fluorescent Ballast 120V / 1300VA 277V / 1300VA Incandescent lamps 120V / 800W Motor load 120V / 0.25HP.
- **Compatible Ballasts (LRD1730):** Philips Advance, Mark 10 Powerline (all models), Essential Powerline (all models).
- **Compatible Lamps (LRD1730):** For best dimming performance, use Philips lamps.
- **Wireless Network Protocol:** ZigBee Pro 2.4GHz Universal license free band.
- **Wireless Compatibility:** Multiple devices can be connected Switches (LRA1721) Dimmers (LRD1730) Occupancy Sensors (LRM1743) Multi Sensors (LRM1769)
- **Stand alone or 3-way switching:** Each Wireless Switch can be configured to operate as a standalone switch or a 3-way switch. By default the switch will act as a stand-alone switch: the switch only controls the load that is connected to it. When configured as a 3-way switch, all loads are controlled from any switch.
- **Stand alone or multi-way dimming:** Each Wireless Dimmer can be configured to operate as a stand alone dimmer or multi-way. By default the dimmer will act as a stand alone device: the dimmer only controls the load that is connected to it. When configured as a multi-way dimmer, all loads are controlled from any dimmer.
- **Group Configuration:** Any set of switches or dimmers can be linked to mimic each another. They all can be also be linked to the sensors in the room for automatic operation.
- **Colors:** White & Ivory
- **Operating Conditions:** For Indoor use only. Temperature 41°F to 104°F (5°C to 40°C) Humidity 20% to 85%. (Non-condensing)
- **Regulatory Compliance:** UL, CSA, FCC, RoHS, California Title 24.
- **Physical Dimensions:** Length x Width x Depth: 4.13 x 2.56 x 1.79 inches (105 x 65 x 45mm) Fits in a standard single-gang wall box. Can also be installed in a multi-gang configuration if fins are removed. Switch maintains full rating. Broken fin dimmers must be de-rated to 500 Watts.
- **Warranty:** 2 year limited warranty.

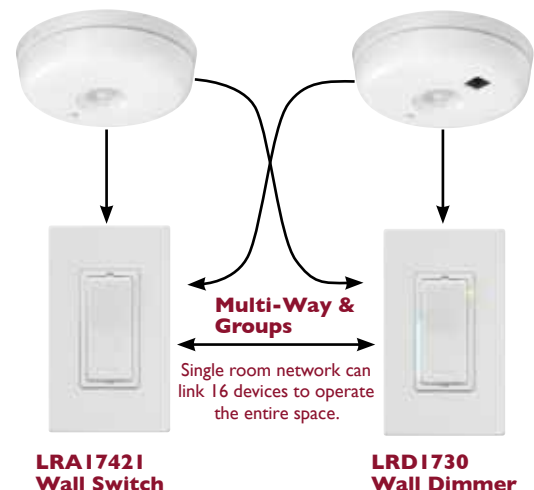
Wiring Diagrams



Multiple Device Configuration

LRM1743 Occupancy Sensor

LRM1760 Occupancy Sensor w/Photocell



Ordering Information

Part Number	Description
LRA172100	OccuSwitch Wireless Wall Switch, White, 120/277 VAC
LRA172101	OccuSwitch Wireless Wall Switch, Ivory, 120/277 VAC
LRD173000	OccuSwitch Wireless Wall Dimmer, White, 120/277 VAC
LRD173001	OccuSwitch Wireless Wall Dimmer, Ivory, 120/277 VAC