Welcome

Lightcloud®

Phase Dimmer

LCDIMMER/PD

WE'RE HERE TO HELP:

1 (844) LIGHTCLOUD

or 1 (844) 544-4825

Hello

Lightcloud is a wireless lighting control system. The Lightcloud Phase Dimmer is an in-wall device that delivers local and remote switching, dimming, (ELV/MLV) and scene control. Easily trigger one of your scenes, or toggle between multiple scenes.

Product Features

Wireless Control & Configuration

Zone Switching & Dimming

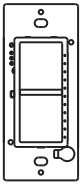
Dim Level Indicator

Scene Selection

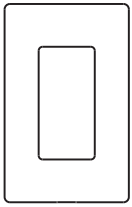
Nightlight

Contents

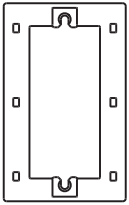
Phase Dimmer



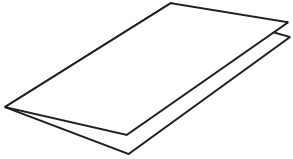
Faceplate



Faceplate Bracket



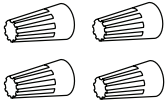
Instruction Manual



2x 6-32 1/2" Screws

2x 6-32 5/16" Screws

4x Wire Nuts



Device ID Labels

Specifications

PART NUMBER
LCDIMMER/PD

INPUT
120VAC, 50Hz

CURRENT DRAW
60mA

LOAD SWITCHING CAPACITY
450W LED (reverse phase)
450W Incandescent (reverse phase)
450W Magnetic Low Voltage (symmetric forward phase)
450W Electronic Low Voltage (reserve phase)
450W Dimmable CFL (reverse phase)
Note: Not recommended for non-dimmable loads.

OPERATING TEMPERATURE
0°C to 40°C

STORAGE TEMPERATURE RANGE
-40°C to 85°C

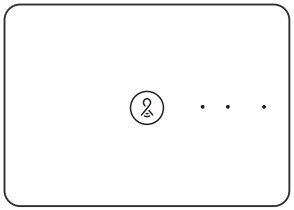
MAXIMUM RELATIVE HUMIDITY
85%

DIMENSIONS
Dimmer: 1.65"W x 2.6"H x 1.77"D
Faceplate: 2.94"W x 4.7"H x 0.06"D
Faceplate Bracket: 2.8"W x 4.55"H x 0.13"D

WIRE GAUGE
Black (Line - 16AWG)
White (Neutral - 16AWG)
Red (Load - 16AWG)
Green (Earth - 18AWG)

WIRELESS RANGE
Line-of-Sight: 1000 feet
Obstructions: 100 feet

What You Need



A Lightcloud Gateway

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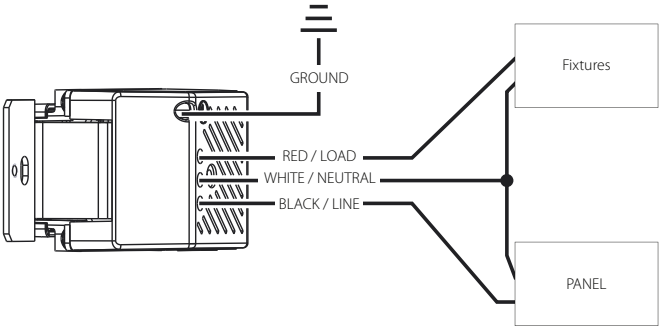
Wiring



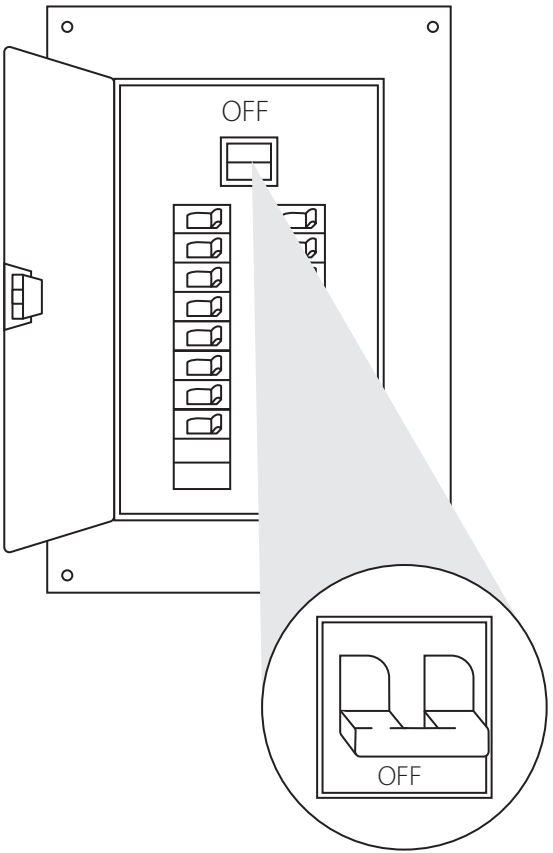
CAUTION

- Use only copper wire.
- Do not operate with the faceplate removed.
- This product should only be installed by a qualified electrician and in compliance with local and national electrical codes.
- This product should only be installed in a UL-approved enclosure.
- Indoor use only.
- Pull out air gap switch before servicing the load

Setup & Installation

① Turn off power

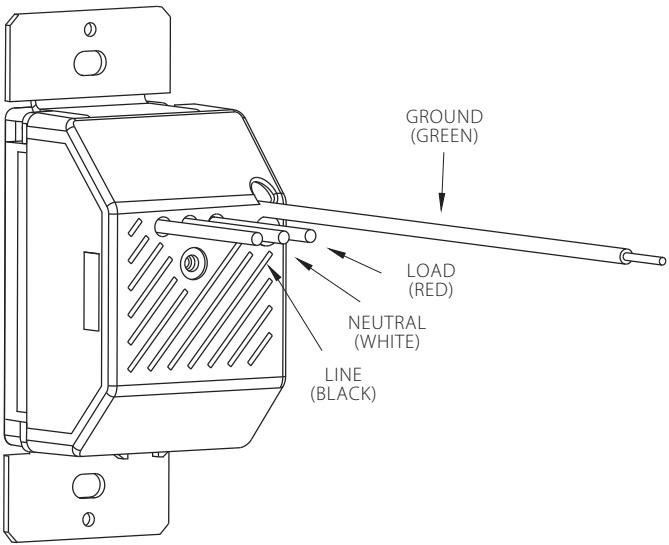
⚠ WARNING



Setup & Installation (cont'd)

2 Install the Lightcloud Dimmer

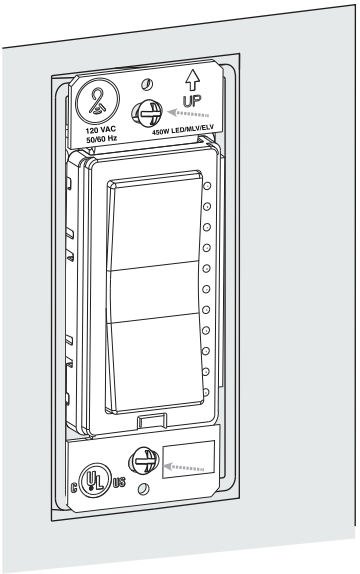
2a Use the included wire nuts to connect the line (black), neutral (white), load (red), and ground (green).



Setup & Installation (cont'd)

Install the Lightcloud Dimmer *(cont'd)*

2b Use the two 6-32 1/2" Phillips round head screws to secure the Dimmer to the junction box.



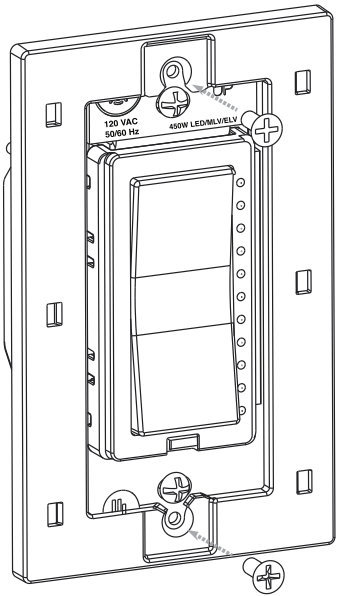
UP

Make sure the arrow labeled "TOP" is pointing up.

Setup & Installation (cont'd)

Install the Lightcloud Dimmer *(cont'd)*

2c Attach the faceplate bracket to the Dimmer using the included screws.



Setup & Installation (cont'd)

3 Labeling your device

When installing devices, it's important to keep track of their Device IDs, installation locations, panel/circuit #s, dimming function, and any additional notes. To organize this information, use the Lightcloud Installer Application (A) or Device Table (B)

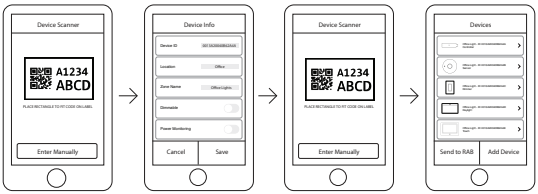
3a Lightcloud Installer Application

Install the LC Installer Application:

LC Installer is available for iOS and Android.

Scan & Install Lightcloud Devices:

Scan each device and assign to a room. It's recommended that each device is scanned just before or just after being wired so no devices are missed. The more notes are given, the easier it is to commission the system.



Scan Device Code | Enter Device Information | Repeat for Additional Devices | Send to RAB

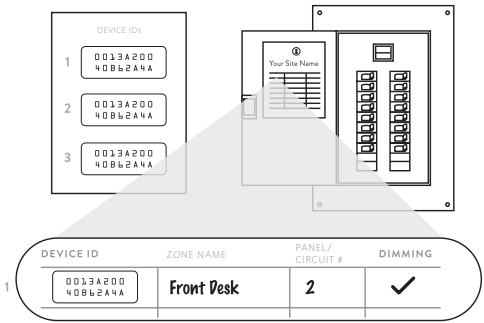
Scan to RAB:

Once all of the devices have been added and organized, submit the information for commissioning.

Setup & Installation (cont'd)

3b Device Table

Two Lightcloud Device Tables are provided with each Gateway: one that you can attach to your panel and one to hand off to a building manager. Attach the Device Identification stickers included with each device to a row, then write in additional information, such as Zone name, Panel/Circuit Number, and whether or not a Zone uses dimming.



Setup & Installation (cont'd)

4 Power up and Set Phase Dimming Mode

Phase Dimmer: Dimming Mode

The Phase Dimmer is configured from the factory for reverse-phase dimming, which is suitable for LED, incandescent, electronic low voltage, and dimmable CFL lighting.

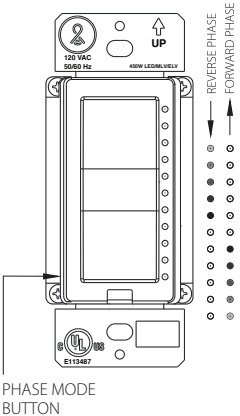
For magnetic loads, you must manually configure the mode to forward phase before using.

WARNING: Using the Phase Dimmer in the wrong mode may cause damage to the load or the Phase Dimmer.

Setting the Dimming Mode

To switch between forward and reverse phase dimming modes, press the phase mode button. The button is recessed and will require using a small pointed object such as a paperclip.

After pressing the phase mode button, the lights on the Phase Dimmer will animate to show the direction of the phase.



REVERSE PHASE: LED, Incandescent, Electronic Low Voltage, Dimmable CFL
FORWARD PHASE: Magnetic Low Voltage

Functionality

Configuration

By default, the Phase Dimmer is programmed for reverse phase dimming of the attached load. To toggle between forward and reverse phase dimming, use the Phase Mode button. To customize the programming to control other loads, scenes or change the dimming curve, use the Lightcloud web application or call RAB:

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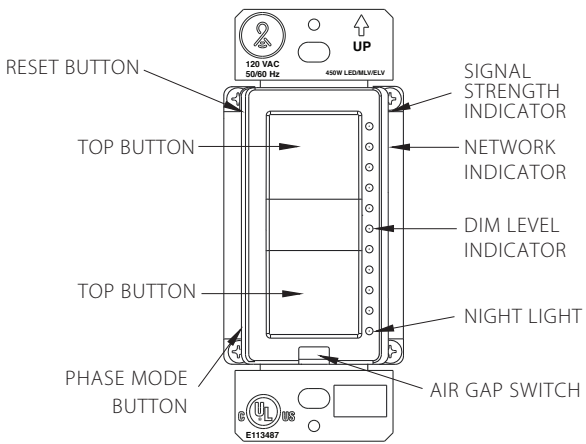
Overview



Functionality (cont'd)

Features

The Lightcloud Phase Dimmer can be used to switch or dim the attached load or other Lightcloud Controllers. By default, the Phase Dimmer is configured for reverse phase dimming of the attached load. To configure the Phase Dimmer button, use the Lightcloud web application, or call RAB at 1-844-LIGHTCLOUD.

SWITCH MODE: In Switch Mode, the Dimmer is paired with a specific zone(s) to provide switching.

Top and Bottom Buttons:

- Single Press: Switch zone on/off
  Note: Switching appears instantaneous but involves a 0.5 second fade that is not recommended for non-dimmable loads.

DIMMER MODE: Dimmer Mode adds dimming capabilities to the buttons.

Top Button:

- Single press while zone is off: switch zone on.
- Single press while zone is on: dim up to max gradually, stopping at current position if bottom button is pressed.
- Press and hold while zone is on: dim up gradually, release to set dim level.

Bottom Button:

- Single press while zone is on: switch zone off.
- Press and hold while zone is on: dim down gradually, release to set dim level.

SCENE MODE: In Scene Mode, the top and bottom buttons activate preselected scenes. This can be configured using the Lightcloud web application or by calling RAB.

FCC Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This device has been tested and found to comply with the limits for Class B digital devices pursuant to Part 15 Subpart B, of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- *Reorient or relocate the receiving antenna.*
- *Increase the separation between the equipment and receiver.*
- *Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- *Consult the dealer or an experienced radio/TV technician for help.*

To comply with FCC RF exposure limits for general population/ uncontrolled exposure, this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION: Changes or modifications to this equipment not expressly approved by RAB Lighting, Inc. may void the user's authority to operate this equipment. Custom manufactured in China.