



Lightcloud is a commercial wireless lighting control system. It's powerful and flexible, yet easy to use and install. Learn more at [lightcloud.com](http://lightcloud.com)

**1 (844) LIGHTCLOUD**

1 (844) 544-4825

**RAB<sup>®</sup>**

© RAB Lighting, Inc

Custom manufactured in Mexico

# Welcome



Lightcloud<sup>®</sup>  
Dimmer

WE'RE HERE TO HELP:

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or 1 (844) 544-4825

**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.*

# Functionality (cont'd)

## Features

The Lightcloud Dimmer can be used in Switch Mode, Dimmer Mode or Scene Mode. To switch between these modes and access other configuration options, 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 to provide switching.

### Top and Bottom Buttons:

- **Single Press: Switch zone on/off**

**DIMMER MODE:** Dimmer Mode takes Switch Mode and adds dimming capabilities.

### 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.

# Hello

The Lightcloud Dimmer is an in-wall switch that connects wirelessly to a Lightcloud Controller to provide switching, dimming and scene control.

## Product Features

Wireless Control & Configuration

Zone Switching & Dimming

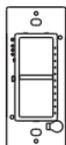
Dim Level Indicator

Scene Selection

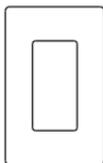
Nightlight

# Contents

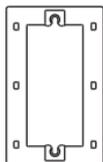
Dimmer



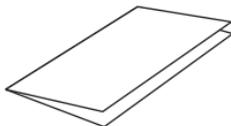
Faceplate



Faceplate Bracket



Instruction Manual



2x 6-32 1/2" Screws



2x 6-32 5/16" Screws



## DEVICE BUTTON *(press using paperclip):*

- Single press: Indicate in Lightcloud application
- Hold for 10 seconds: Force device to leave current Lightcloud network

## DIM LEVEL INDICATOR:

- Displays current dim level (Zone mode)

## NIGHTLIGHT:

- White: Lit when zone is off so you can find the dimmer

## SIGNAL STRENGTH INDICATOR:

- Indicates strength of the connection to next Lightcloud Device

## NETWORK INDICATOR:

- **Solid green:** Connected to a Lightcloud network
  - **Blinking red:** Not connected to a Lightcloud network
- The network and signal strength indicators are lit for 10 minutes following initial power on. To display the indicators later on, simply press the device button once.*

## TOP AND BOTTOM BUTTONS:

Functionality depends on which mode is being used; see next page for details.

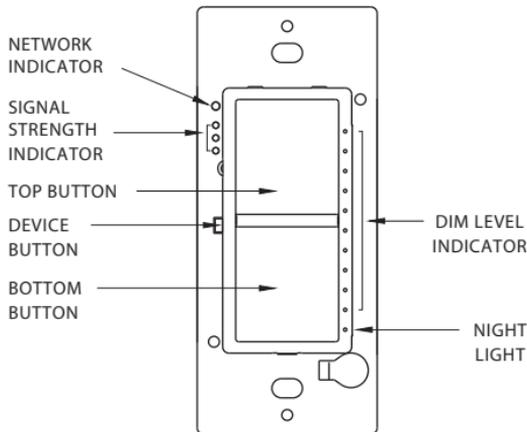
# Functionality

## Configuration

To pair the Dimmer with a zone, assign scenes or perform other configuration, use the Lightcloud web application or call RAB:

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## Overview



# Specifications

## PART NUMBER

LCDIMMER/W

## INPUT

120-277VAC, 50/60Hz, 2W

## OPERATING TEMPERATURE

0°C to 40°C

## DIMENSIONS

Dimmer: 1.77"W x 2.7"H x 1.49"D

Faceplate: 2.94"W x 4.69"H x 0.06"D

Faceplate Bracket: 2.8"W x 4.55"H x 0.13"D

18AWG grounding; terminals supporting up to 12AWG wire

## WIRELESS RANGE

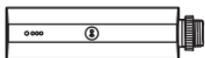
Line-of-Sight: 1000 feet

Obstructions: 100 feet

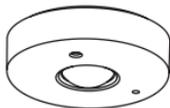
# What You Need



A Lightcloud Gateway



A Ceiling Sensor  
(Or similar actuator)

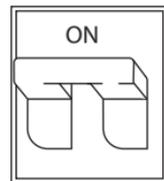


## 4 Power up

To add your Lightcloud Dimmer to your system, enable Setup Mode via the Lightcloud application or call RAB at 1 (844) 544-4825. When the Dimmer powers up, it will automatically try to join, and keep trying until it is able to join.

*If you are installing multiple devices, you may wait until they are all installed to enable Setup Mode.*

When all devices have been commissioned, remember to disable Setup Mode.



## 5 Confirm device connectivity

Confirm Network Status Indicator is solid green (*see details below*).

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# Setup & Installation (cont'd)

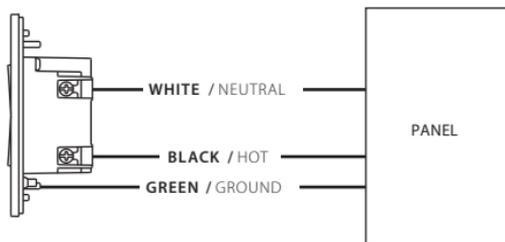
## 3 Labeling your device



DEVICE ID	ZONE NAME	PANEL / CIRCUIT #	DIMMING
0013A200 40B62A4A	Front Desk	2	✓

For setup and maintenance, we provide two Lightcloud Device Tables with the 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.

# Wiring



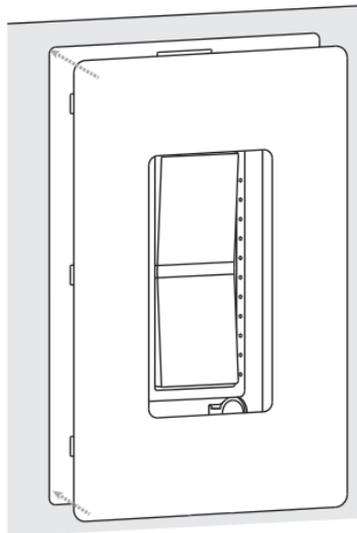
## CAUTION

- 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 single gang wall-box enclosure.
- Indoor use only.

## Finding a suitable location

Lightcloud uses a wireless mesh network to connect devices such as the Dimmer to the Gateway. Unlike a WiFi router, each Lightcloud device may connect another device to the network. If there is a clear line of sight between two Lightcloud devices, they can be placed up to 1000 feet apart. If the two devices are separated by ordinary drywall construction, try to keep them within 100 feet of each other. Brick, concrete and steel construction may require additional AC-powered Lightcloud devices to go around the obstruction. See the Deployment section of your Gateway for more information.

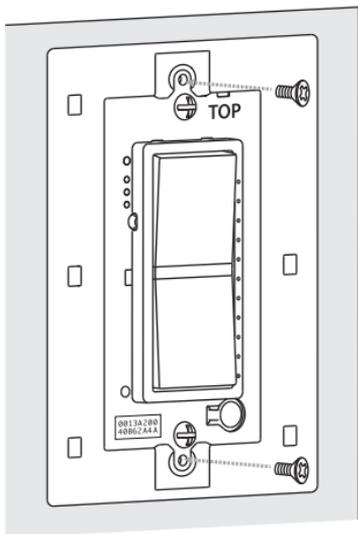
- 2d** Snap the faceplate onto the faceplate bracket.



## Setup & Installation (cont'd)

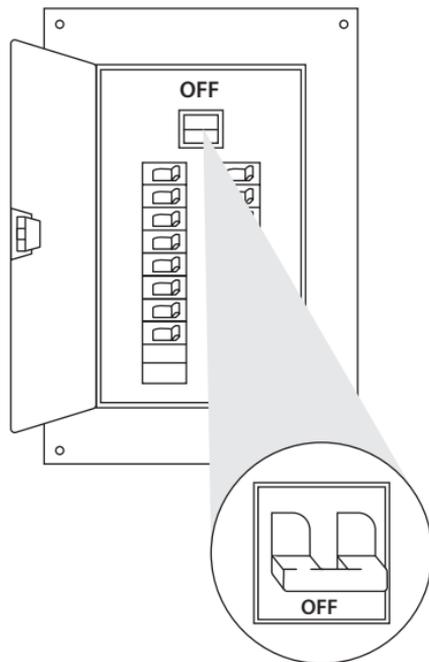
### ② Install the Lightcloud Dimmer (cont'd)

- 2c** Use the two 6-32 5/16" Phillips flat-head screws provided to secure the faceplate bracket to the Dimmer.



## Setup & Installation

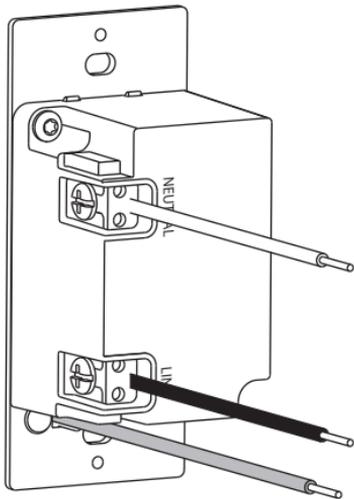
### ① Turn off power **WARNING**



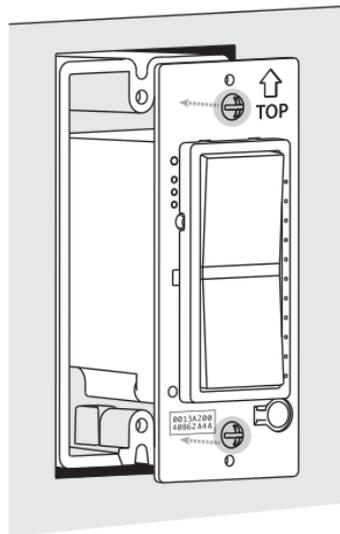
# Setup & Installation *(cont'd)*

## 2 Install the Lightcloud Dimmer

- 2a** Screw the line (black) and neutral (white) wires into the labeled connectors on the back of the Dimmer. Connect the ground wire (green).



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



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