

# Welcome

Lightcloud<sup>®</sup>

Phase Dimmer Bridge

XDIM/BRIDGE/LCB

WE'RE HERE TO HELP:

**1(844) LIGHTCLOUD**

1(844) 544-4825

# Hello

The Lightcloud Blue Phase Dimmer Bridge can be used to connect to the Lightcloud Enterprise Gateway system. Enjoy all of the premium features of Lightcloud such as remote access, demand response, BACnet and much more.

## Product Features & Specifications

- Voltage: 120V-277V
- Color: Matte White
- Dimming Protocol: Phase-cut
- Max Load (*Dimming Capacity*):
  - LED/CFL: 300W
  - INC/HAL/ELV: 500W
  - MLV: 400VA
- Warranty:
  - 3-year, limited warranty
- Control hundreds of Lightcloud Blue lights
- Power monitoring (*neutral wire is required*)
- Neutral optional for retrofit applications
- High/Low end adjustment

## Safety Information

- To avoid risk of fire and electrical shock, products shall be installed in accordance with electrical code and regulations.
- Cut off the power at the circuit breaker or fuse before installation.
- If you're not clear about any content of the instructions, please consult a licensed electrician.
- Switch to the forward phase control mode when an inductive load (*i.e., incandescent or magnetic low-voltage halogen*) is used. Switch to reverse phase control mode when a capacitive load (*i.e., electronic low-voltage halogen, CFL or LED*) is used.
- To avoid the risk of overheating and possible damage to the equipment, do not use the product to control a receptacle, motor-operated appliance or a transformer-supplied appliance.
- This product applies to compatible, dimmable incandescent, magnetic low-voltage halogen, electronic low-voltage halogen, CFL and LED products.
- When connecting multiple products with a single dimmer, do not mix product types. All products shall be either dimmable LED, CFL or incandescent products. Using the same type of products will enhance dimmer performance.
- Terminal screw torque: 0.55N.m.

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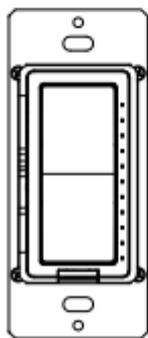
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[support@lightcloud.com](mailto:support@lightcloud.com)

# Parts Included and Tools Needed

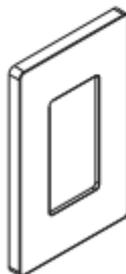
## ① Parts Included



Dimmer (1 pcs)



Base Plate (1 pcs)



Face Plate (1 pcs)



Jumper Wire (1 pcs)



Mounting Screws (2 pcs)



5PIN Wiring Terminal (2 pcs)



2PIN Wiring Terminal (3 pcs)



Connection Wire (5pcs)

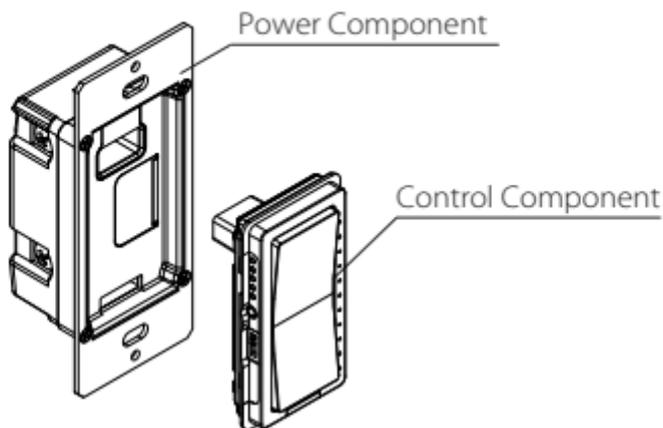
## ② Tools Needed to Install the Dimmer

- 5mm Philips Screwdriver
- Test Pencil
- Electrical Tape
- Pliers
- Electrician Knife
- Ruler

# Basic Operation

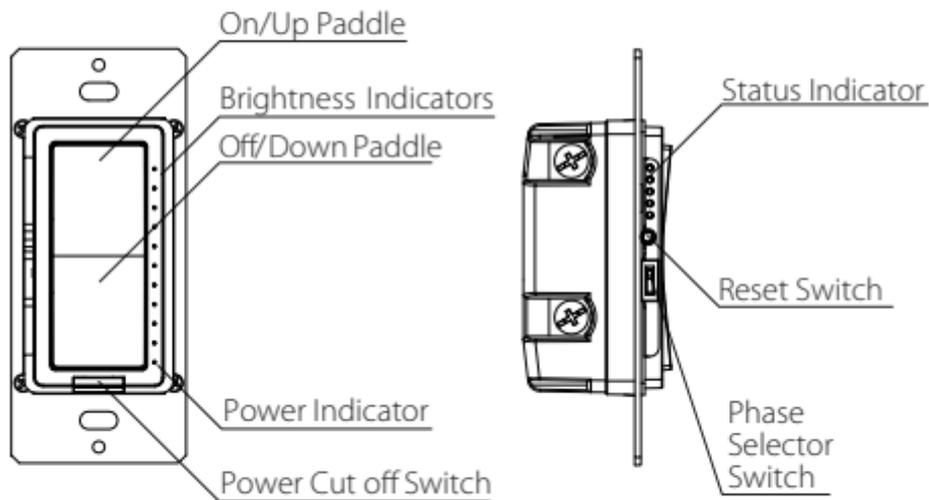
## ① Replaceable Control Component

- The Power Component is the base of the unit that is hardwired into a standard wall box.
- The Control Component can detach from the Power Component by pulling the Power Cutoff Switch until the stops.



# Basic Operation *(cont'd)*

## ② Functional Parts



## Basic Operation *(cont'd)*

### 2a On/Up Paddle

- Turn lights ON: Single press
- Increase brightness: Press and hold, release at desired setting
- Increase to maximum brightness level: Double press

### 2b Off/Down Paddle

- Turn lights OFF: Single press
- Decrease brightness: press and hold, release at desired setting
- Decrease to minimum brightness level: Double press

### 2c Power Indicator

- Confirms the dimmer is receiving power

### 2d Power Cutoff Switch

- Pull switch until it stops to cut power to this dimmer and to the load or to detach the Control Component

### 2e Status Indicator

- Represents the connectivity to the Lightcloud Blue network  
*(Green, paired to network. Red, ready to pair to network.)*

## Basic Operation *(cont'd)*

### 2f Reset Button

- Press and hold for 10 seconds

### 2g Phase Selector Switch

- Selectable phase control load switch.  
(F) Forward Phase, (A) Auto Detect, (R) Reverse Phase.

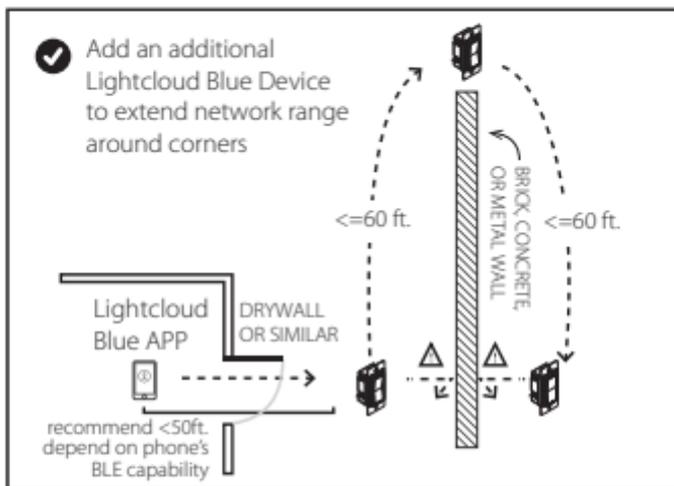
## 3 Multi-Gang Installation Derating

Single-Gang Rating	Double-Gang Rating	Triple-Gang Rating
120 Vac, 60 Hz, 500 W Tungsten	120 Vac, 60 Hz, 400 W Tungsten	120 Vac, 60 Hz, 300 W Tungsten
300 W CFL/LED/ Electronic self-ballasted	300 W CFL/LED/ Electronic self-ballasted	300 W CFL/LED/ Electronic self-ballasted
500W ELV 400VA MLV	400W ELV 300VA MLV	300W ELV 200VA MLV

# Installing your Lightcloud Blue Device

## 1 Find a Suitable Location

- Lightcloud Blue devices should be positioned within 60 ft. of each other.
- Building materials such as brick, concrete and steel construction may require additional Lightcloud Blue devices to extend around an obstruction.
- The Bridge should be installed within 100 feet of the Lightcloud Gateway.

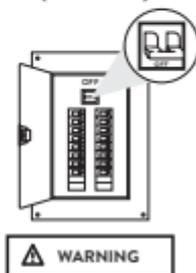


# Installing your Lightcloud Blue Device

(cont'd)

## 2 Turn off Power

- Place the wall switch in the off position
- Turn off the main power at the breaker panel or remove the fuse from the fuse box



## 3 Remove Existing Switch

### 3a Remove Existing Switch

- Remove existing wall panel and switch mounting screws.
- Carefully pull switch from wall box, identify and remove the wires attached to the switch, then remove the switch.

## 4 Single Pole Installation

Option 1:

Control non-Lightcloud Blue enabled products.

Run wire for Hot, Neutral (*optional*), Ground and Load.

See Wiring Scheme 1 or 2.

Option 2:

Control Lightcloud Blue enabled products.

Remotely run wire for Hot, Neutral, and Ground.

See Wiring Scheme 1.

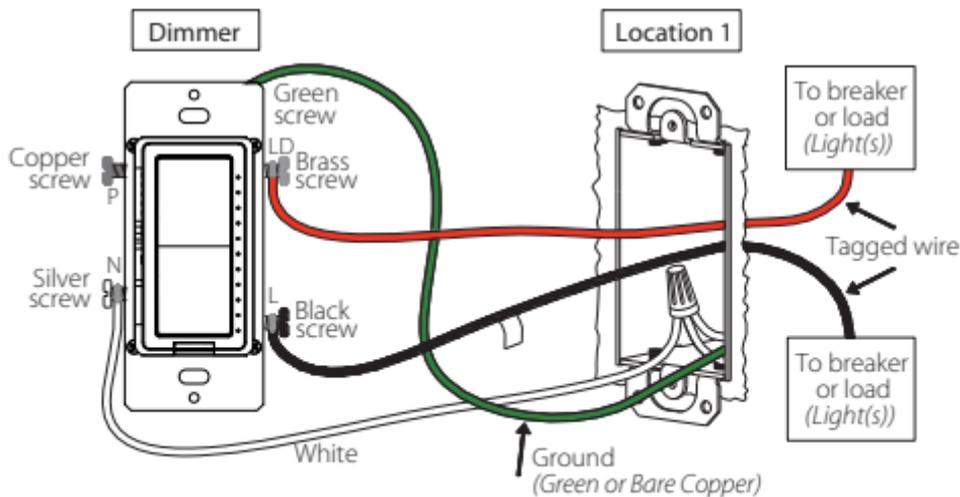
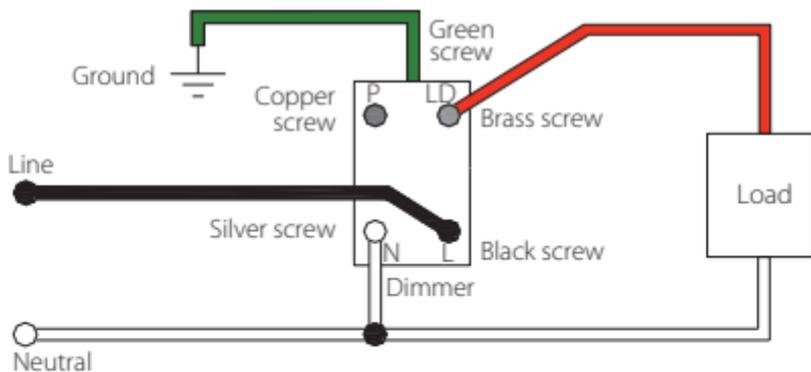
*(you cannot attach the load to a Lightcloud Blue-enabled fixture)*

# Installing your Lightcloud Blue Device *(cont'd)*

## 5 Typical Wiring

### 5a Single-Pole

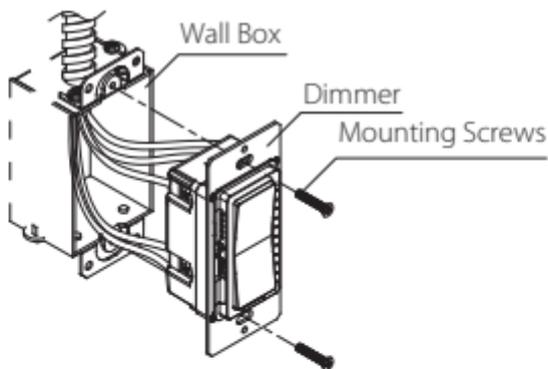
Wiring Scheme *(neutral and hot wire)*



# Installing your Lightcloud Blue Device *(cont'd)*

## ⑥ Install and Fix the Dimmer

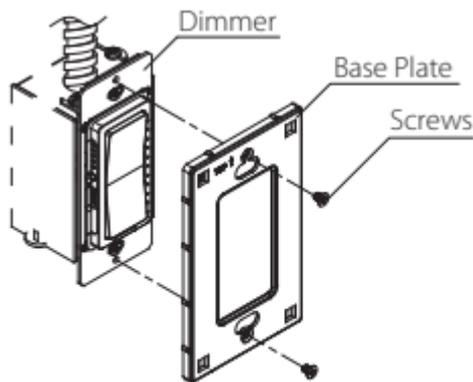
- Carefully position all wires inside the wall box, leaving enough room to insert the dimmer housing. Secure the dimmer with the mounting screws provided.



## ⑦ Install the Wall Plate

### 7a Separate Plate

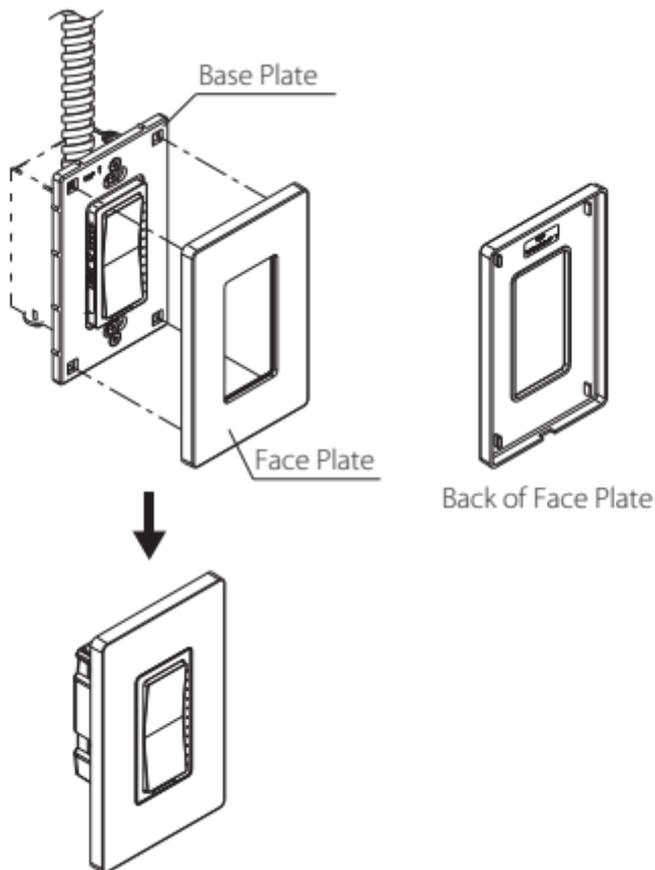
- Place the base plate over the installed dimmer and secure it using provided screws.



# Installing your Lightcloud Blue Device

*(cont'd)*

- Connect the face plate to the installed back plate and gently push it until it clicks into place. Be sure to align the divets on the back and face plate to make it easier to remove the faceplate when needed.



# Controlling your Lightcloud Blue Device

- 1 Confirm your device is powered on.
- 2 Download the Lightcloud Blue app from the Apple® App Store or Google® Play store.



- 3 Launch the app and create an account.

- 4 Tap the "add device" icon in the app to start connecting devices.



- 5 Select the Dimmer in the app and move it to an Area with other Lightcloud Blue lights.

- 6 You're all set! Access premium features by pairing the Dimmer Bridge to a Lightcloud Enterprise Gateway.



*Learn more about the  
Lightcloud Blue system  
and app features.*

# Setting Device to Pairing Mode

To restore your Lightcloud Blue Dimmer to factory settings, use the following methods.

## Method 1: Delete from App

Open the app and access the device settings for the paired device. Be sure that the dimmer is online and select "Delete".

## Method 2: Reset Switch

Press and hold the reset switch until the status indicator blinks red (*the dimmer is waiting for the distribution network*).

*Note: When pairing to the Lightcloud Blue app, Bluetooth must be enabled on the mobile device.*

# Functionality

## Configuration

All configuration of Lightcloud Blue products may be performed using the Lightcloud Blue app.

## Emergency Default

If communication is lost, the Lightcloud Blue lamps may fall back to a specific state, such as turning the Lightcloud Blue lights on.

## RF EXPOSURE STATEMENT

*This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.*

### *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. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, 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 to 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.*

### *FCC CAUTION:*

*Any changes or modifications to this unit not expressly approved by the manufacture could void the user's authority to operate the equipment.*

# Lightcloud<sup>®</sup>

Lightcloud Blue is a Bluetooth mesh wireless lighting control system that allows you to control RAB's various compatible devices. Each device in a system can communicate with any other device, maximizing the control system's reach.

Learn more at [www.lightcloud.com](http://www.lightcloud.com)

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