Welcome

Lightcloud®

Phase Dimmer

XDIM/LCB
XDIM/LCBS

Hello

The Lightcloud Blue Phase Dimmer can be used to control wired standard lighting or wirelessly control the Lightcloud Blue-enabled lighting. Easily use the up/down paddle to adjust the dim level or turn lights on/off. Brightness lights illuminate to reflect current brightness levels .

Product Features & Specifications

- Voltage: 120V
- 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

- Compatible with a broad range of high-efficiency loads
- 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.
- Cutoff 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 leading edge control mode when an inductive load (i.e., incandescent or magnetic low-voltage halogen) is used. Switch to trailing edge control mode when a capacitive load (i.e., electronic low-voltage halogen, CFL or LEDis 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.
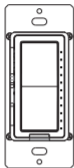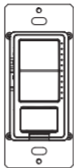- The best installation height of XDIM/LCBS: 4ft.

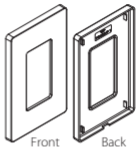# Parts Included and Tools Needed

Parts Included

Dimmer (1 pcs)
XDIM/LCB

OR

Dimmer (1 pcs)
XDIM/LCBS

Front   Back

Face Plate
(1 pcs)

Cover Plate
(1 pcs)

Jumper Wire
(1 pcs)

Mounting
Screws (2 pcs)

XDIM/LCB only

5PIN Wiring
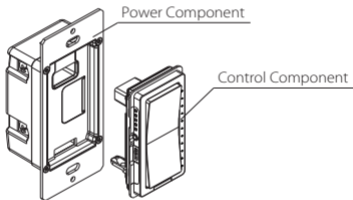Terminal (2 pcs)

2PIN Wiring
Terminal (3 pcs)

Connection Wire
(5 pcs)

Basic Operation
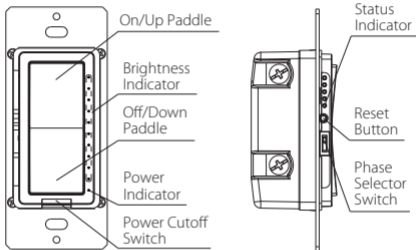
① Replaceable Control Component

- 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.

Power Component

Control Component

Basic Operation *(cont'd)*

2 Functional Parts

XDIM/LCB:

- On/Up Paddle
- Brightness Indicator
- Off/Down Paddle
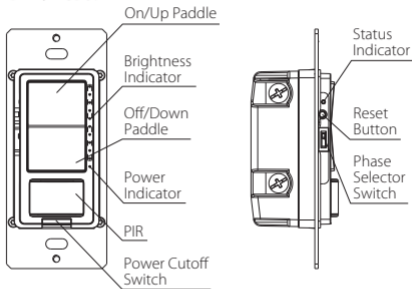- Power Indicator
- Power Cutoff Switch
- Status Indicator
- Reset Button
- Phase Selector Switch

- Short Press: Within 0.5 seconds
- Long Press: Over 0.5 seconds
- Double Press: Within 1 second

XDIM/LCBS:

On/Up Paddle

Brightness Indicator

Off/Down Paddle

Power Indicator

PIR

Power Cutoff Switch

Status Indicator

Reset Button

Phase Selector Switch

- Short Press: Within 0.5 seconds
- Long Press: Over 0.5 seconds
- Double Press: Within 1 second

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

Basic Operation *(cont'd)*

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 *(Need to include status color definitions)*

2f Reset Button
- Press and for 10 seconds

2g Phase Selector Switch
- Selectable phase control load switch

Basic Operation *(cont'd)*

(5) 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
(cont'd)

(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 alightcloud blue enabled fixture)

(5) 3-way Installation

First install load
Control non-Lightcloud Blue enabled products.
Run wire for Hot, Neutral (optional), Ground, Load,
Then install Xdim with no load for remote control
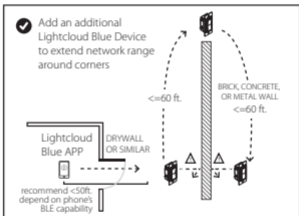Control Lightcloud Blue enabled products.
Run wire for Hot, Neutral and Ground.
Dimmers will be assigned to the same Area in the mobile app to work as a 3-way switch.

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

Add an additional Lightcloud Blue Device to extend network range around corners

<=60 ft.

BRICK, CONCRETE, OR METAL WALL
<=60 ft.

Lightcloud Blue APP

DRYWALL OR SIMILAR

recommend <50ft. depend on phone's BLE capability

Installing your Lightcloud Blue Device

2 Turn off Power

⚠ **WARNING**

- 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.

3b Replacing the XDIM dimmer Control Component

If the XDIM dimmer is currently installed, it can be converted to a XDIM/LCB dimmer, no rewiring required.
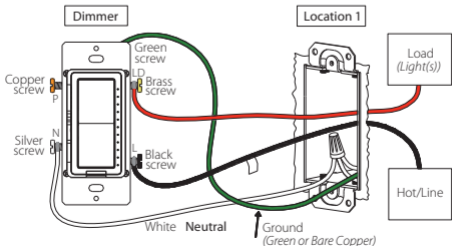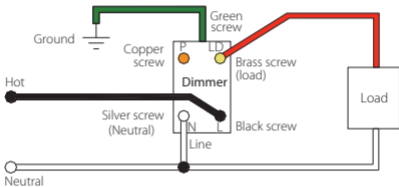
- Remove the face plate to access the Power Cutoff Switch.
- Pull the Power Cutoff Switch out and remove the XDIM Control Component.
- Replace it with the Operation Paddle Assembly for the XDIM/LCB.
- Push in the Power Cutoff Switch.
- Skip to Controlling your Lightcloud Blue Device to continue.

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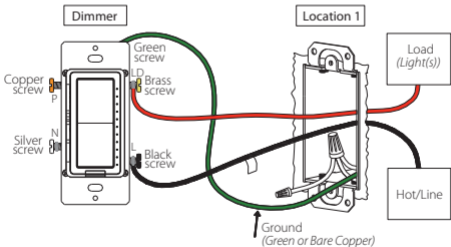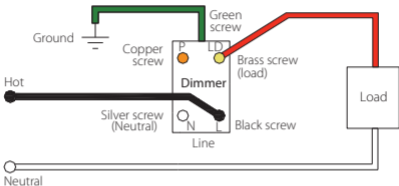*(cont'd)*

⑥ Typical Wiring

Single-Pole

Wiring Scheme 1 *(neutral and hot wire)*

Green screw

Ground

Copper screw

P LD

Dimmer

Brass screw (load)

Hot

Silver screw (Neutral)

N L

Line

Black screw

Load

Neutral

Dimmer

Green screw

Copper screw
P

Brass screw

Silver screw
N

L

Black screw

Location 1

Load
(Light(s))

Hot/Line

White **Neutral**

Ground
(Green or Bare Copper)

Installing your Lightcloud Blue Device
(cont'd)

Wiring Scheme 2 *(hot wire only)*

Green screw

Ground

Copper screw

Hot

Silver screw (Neutral)

Black screw

Line

Neutral

P

LD

Dimmer

N

L

Brass screw (load)

Load

Dimmer

Location 1

Green screw

Copper screw

P

LD

Brass screw

Silver screw

N

Black screw

Load *(Light(s))*

Hot/Line

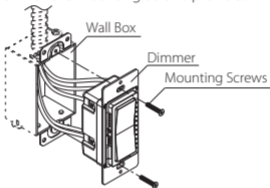Ground *(Green or Bare Copper)*

Installing your Lightcloud Blue Device
(cont'd)

7 Install and Fix the Dimmer

- Ensure the Control Component is attached to the Power Component. Carefully position all wires inside the wall box, leaving enough room to insert the Dimmer. Secure the Dimmer with the mounting screws provided.

Wall Box
Dimmer
Mounting Screws

8 Install the Wall Plate

8a Separate Plate

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

Dimmer
Base Plate
Mounting Screws
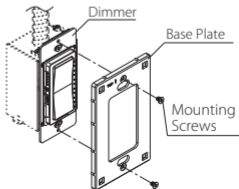
Installing your Lightcloud Blue Device
(cont'd)

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

Base Plate

Face Plate

Back of Face Plate
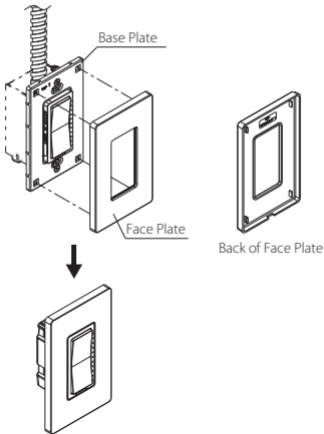
Controlling your Lightcloud Blue Device

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 and assign it to an Area.

6 You're all set!

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 from Site".
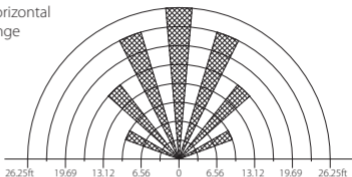
Method 2: Reset Switch

Press and hold the Reset Button until the Status Indicator light blinks red *(the dimmer is waiting to pair with network)*.
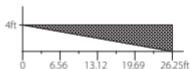
Sensor Detection Range

Best mounting height of dimmer: 4ft.

Maximum horizontal
detection range

26.25ft   19.69   13.12   6.56   0   6.56   13.12   19.69   26.25ft

Maximum vertical
detection range

4ft

0   6.56   13.12   19.69   26.25ft

Functionality

Configuration

All configuration of Lightcloud Blue products is 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 lamps 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®

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

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RAB®