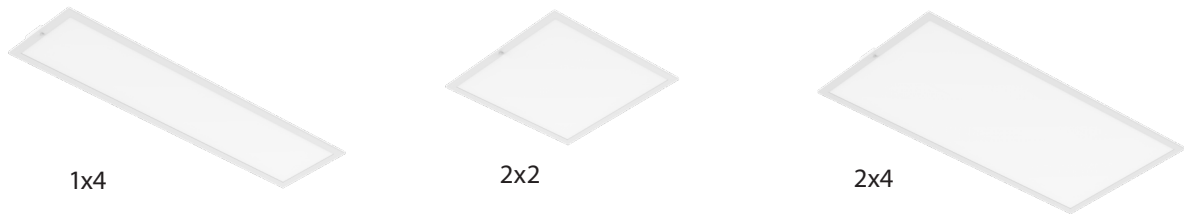


# INSTRUCTIONS

## EZPAN® FIELD-ADJUSTABLE INSTALLATION

# RAB®

RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: [marketing@rablighting.com](mailto:marketing@rablighting.com)



### IMPORTANT

#### READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

RAB fixtures must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety. THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

**WARNING: Make certain power is OFF before installing or maintaining fixture.**

**WARNING: Risk of fire or electric shock. Suitable for damp locations.**

**WARNING: Suitable for 9/16" or 15/16" flat tee grid in both insulated ceilings and non-insulated ceilings. Access above ceiling required.**

**WARNING: Do not handle energized fixture when hands are wet, when standing on wet or damp surfaces, or in water.**

**WARNING: Vapor barrier must be suitable for 90° C.**

**WARNING: Fixture to be independently supported to building structure.**

### RECESSED CEILING MOUNTING

The fixture is suitable only for INDOOR RECESSED CEILING application. Above ceiling access required.

To mount in an insulated or non-insulated ceiling - 9/16" or 15/16" exposed flat tee grid ceiling follow the steps below.

1. Firmly bend the pre-installed **Grid Clips** up and out as shown in Fig. 1.
2. Rotate and slide the **Fixture** as required to fit through the **Tee-Grid Bar** and place it as indicated by the directional arrow as shown in Fig. 2. Secure the **Fixture** to the **Tee-Grid Bar**.
3. Support wires are required by installation codes. Support the **Fixture** to the building structure by **Support Wires** (supplied by others) through the **Grid Clip Hole** as shown in Fig. 3.
4. Make sure that the orientation of the **Splice Box** and **Access Plate** faces an accessible tile to make electrical splices.
5. Loosen **Access Plate Screw** and remove the **Access Plate**. Knock out appropriate **Conduit Knockouts** on the **Access Plate** to route input conduit. Use appropriate conduit connectors as required by code (Fig. 4).
6. Connect wires as shown in wiring diagram, Fig. 6. Push all wires back into the **Splice Box**. Use appropriate UL-approved wire connectors as required by code to complete wiring. Be careful not to pinch wires. **WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.**
7. Replace **Access Plate** and tighten **Access Plate Screw**.

Fig: 1

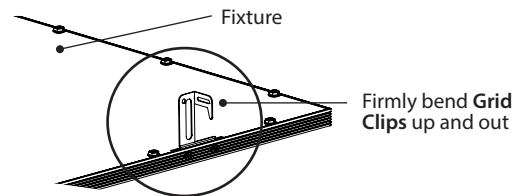


Fig: 2

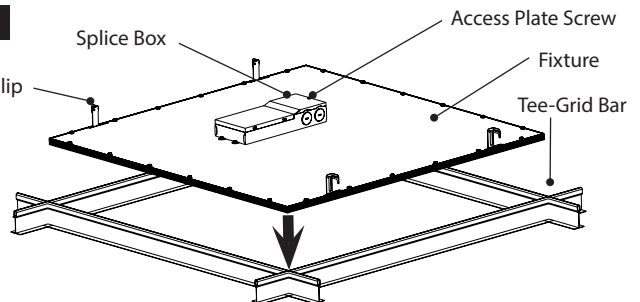


Fig: 3

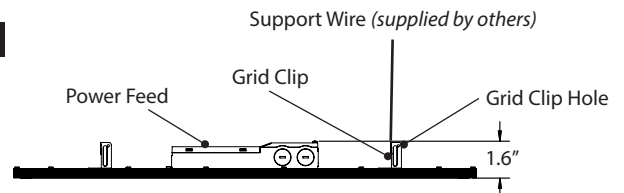
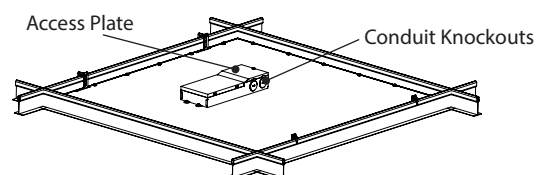


Fig: 4



# INSTRUCTIONS

## EZPAN® FIELD-ADJUSTABLE INSTALLATION



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### FIELD ADJUSTMENT

Follow instructions below to change Fixture **Color Temperature (CCT)** and/or **Power (W)** from factory settings listed below.

#### Color Temperature (CCT) Selection:

This product is equipped with 3500K, 4000K, 5000K (CCT) **Color Temperature** selection. For maximum light output use the 4000K **Color Temperature**.

#### Power (Wattage) Selection:

This product is equipped with power output selection.

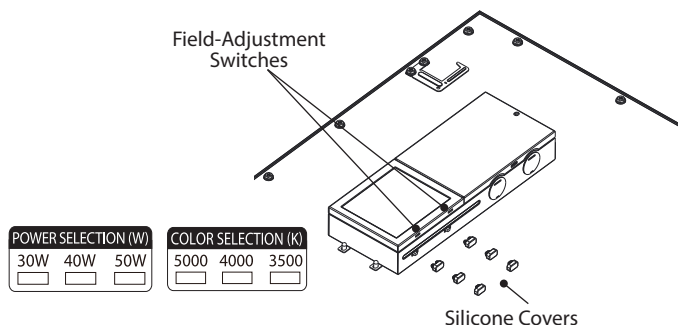
EZP1X4	40/30/25W
EZP2X2	40/30/25W
EZP2X4	50/40/30W
EZP1X4HE	36/30/25W
EZP2X2HE	36/30/25W
EZP2X4HE	50/40/30W

#### Factory Settings:

EZP1X4	40W / 4000K
EZP2X2	40W / 4000K
EZP2X4	50W / 4000K
EZP1X4HE	36W / 4000K
EZP2X2HE	36W / 4000K
EZP2X4HE	50W / 4000K

1. Locate **Field-Adjustment Switches** on side of Fixture Driver as shown in Fig. 5.
2. Select a wattage and color temperature by sliding the respective switch to the desired setting.
3. After **Field-Adjustment Switches** are positioned to the desired settings insert the **Silicone Covers** to lock switches in place.

Fig. 5



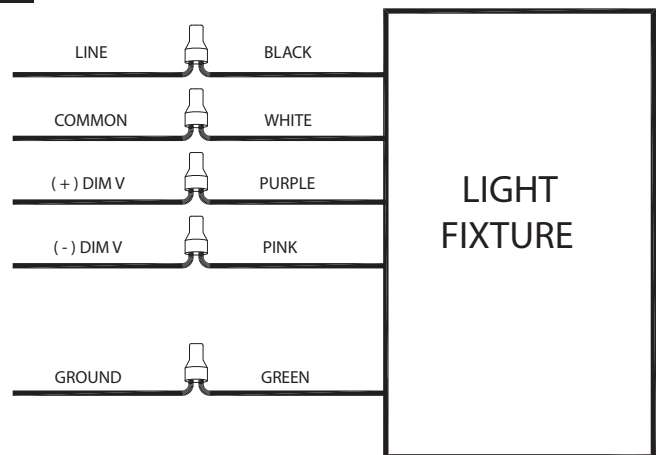
### 0-10V DIMMABLE WIRING

Universal voltage driver permits operation at 120V through 277V, 50 or 60 Hz. For 0-10V dimming, follow the wiring directions as shown in Fig. 6.

1. Connect the black fixture lead to the **LINE** supply lead.
2. Connect the white fixture lead to the **COMMON** supply lead.
3. Connect the **GROUND** wire from fixture to supply ground.
4. Connect the purple fixture lead to the (V+) DIM lead.
5. Connect the pink fixture lead to the (V-) DIM lead.

*NOTE: Do not connect DIM V+ (purple)/ DIM V- (pink) to line voltage or supply ground.*

Fig. 6



### TROUBLESHOOTING

1. Check that the line voltage at fixture is correct. Refer to wiring directions.
2. Be sure the fixture is grounded properly.

### CLEANING & MAINTENANCE

**CAUTION:** Be sure fixture temperature is cool enough to touch. Do not clean or maintain while fixture is energized.

1. Clean lens & fixture with non-abrasive cleaning solution.
2. Do not open fixture to clean the LEDs. Do not touch the LEDs.

*Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation, operation or maintenance.*

# INSTRUCTIONS

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### LIGHTCLOUD® BLUE

Lightcloud Blue is a Bluetooth mesh wireless lighting control system that allows you to control various compatible devices. With RAB's patented Rapid Provisioning technology, devices can be quickly and easily commissioned for residential and large commercial applications using the Lightcloud Blue mobile app.

Each device in a system can communicate with any other device, eliminating the need for a Gateway or Hub and maximizing the control system's reach.

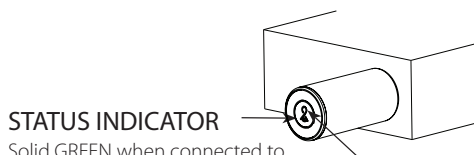
Lightcloud Blue devices should be placed within the specified range to communicate within the Bluetooth Mesh network. Up to 60 feet between standard building materials. Up to 200 feet clear line of sight.

**Reset to Factory Settings:** To enable pairing or reset the device, locate the device identification button at the top of the Controller under the Lightcloud logo. Press and hold this button for 10 seconds or until the indicator light begins flashing red and the fixture will also on/off 5 times.

#### LED Indicators:

**Blinking Red** = Looking for a network

**Solid Green** = Connected to network



#### STATUS INDICATOR

Solid GREEN when connected to your Lightcloud Blue network.  
Blinking RED when unprovisioned.

#### DEVICE IDENTIFICATION BUTTON

- Press once to rapid identify this device in the Lightcloud Blue Application when provisioned
- Press twice to toggle circuit on and off
- Press twice and hold to set dim level
- Press and hold for 10s to reset the device to factory settings and into pairing mode

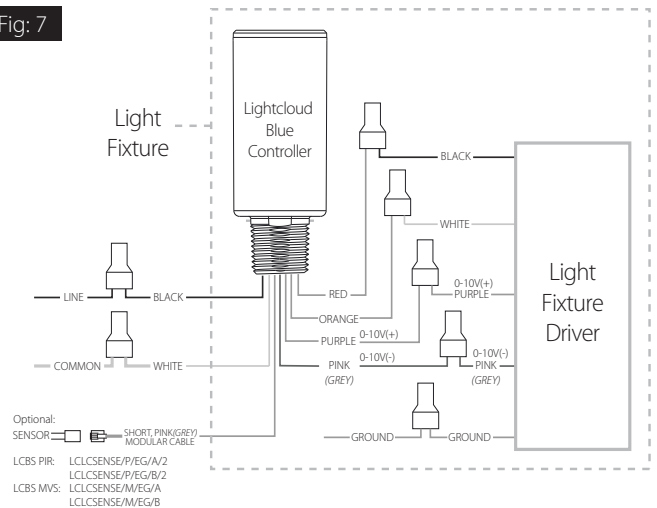
### WIRING

**WARNING:** Lightcloud Blue-enabled fixtures require constant power and shouldn't be placed down circuit from any switching devices.

Universal voltage driver permits operation at 120V thru 277V, 50 or 60 Hz. For 0-10V dimming follow the wiring directions shown in (Fig. 7).

1. Connect the **Black** fixture lead to the LINE supply lead.
2. Connect the **White** fixture lead to the COMMON supply lead.
3. Connect the **GROUND** wire from fixture to supply ground.
4. Connect the **Purple** wire from fixture to supply ground.
5. Connect the **Pink** wire from fixture to supply ground.

Fig: 7



**NOTE:** Do not connect DIM V+ (purple)/ DIM V- (pink(grey)) to line voltage or supply ground.

To test, double click the Lightcloud Blue button to turn on and off the fixture shown in (Fig. 5).

### CONTROLLING 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 or sign into an existing account.
4. Tap the "add device" icon in the app to start connecting devices.
5. Follow the remaining steps in the app. Create areas, groups, and scenes to organize and control your devices.

# INSTRUCTIONS

## EZPAN® FIELD-ADJUSTABLE INSTALLATION

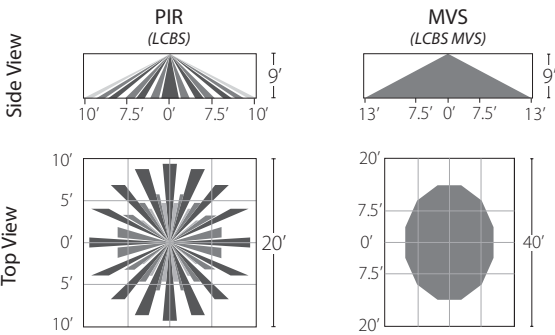


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### MICRO SENSOR SPECIFICATIONS

- 1. Part Number  
PIR: LCLCSENSE/P/EG/A/2  
MVS: LCLCSENSE/M/EG/A
- 2. Input: 5VDC
- 3. Operating Temperature: -4°F to 113°F
- 4. Dimensions  
PIR: 1.14"(W) x 1.33"(H) x 2.64"(D)  
MVS: 1.30"(W) x 1.33"(H) x 2.64"(D)
- 5. Sensor Coverage  
PIR: 20 ft. diameter at 9 ft  
MVS: 26 ft. diameter at 9 ft
- 6. Mounting Height: 8 to 12 ft
- 7. Connector: RJ09

### MICRO SENSOR COVERAGE



### MICRO SENSOR SETUP & INSTALLATION

- 1. The PIR/MVS Micro Sensor is only compatible with select sensor-ready fixtures. Visit [www.rablighting.com](http://www.rablighting.com) to see the full compatibility list.
- 2. Mount the PIR/MVS Micro Sensor with the screw/tape included. Example shown using RAB's EZPAN fixture (Fig. 8).
- 3. Connect the Micro Sensor (Fig. 9, Fig. 10)  
Lightcloud Blue Controller: Use the adapter to connect the sensor to the controller.  
Lightcloud Driver: Plug the sensor into the sensor port on the driver.

### CONFIGURATION

To configure the Lightcloud Blue Panel Light Micro Sensor please login to the Lightcloud Blue app for details. For additional startup information, please visit [www.lightcloud.com/item/lcb-getting-started/](http://www.lightcloud.com/item/lcb-getting-started/)

*Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation, operation or maintenance.*

Fig: 8

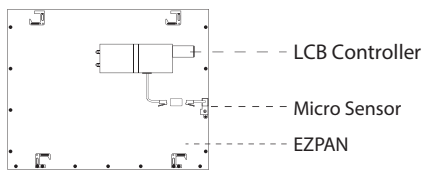


Fig: 9

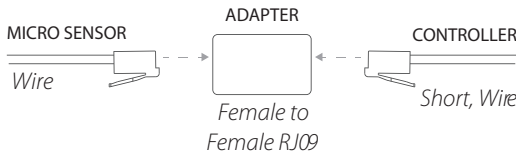
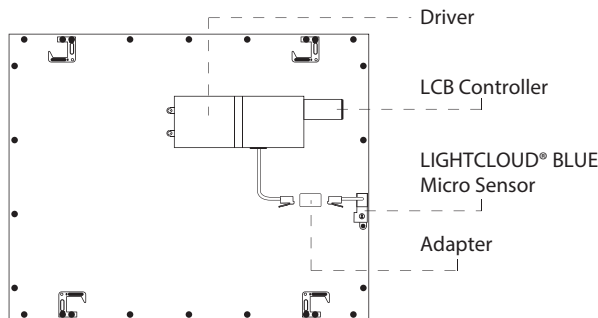


Fig: 10



# INSTRUCTIONS

## EZPAN® FIELD-ADJUSTABLE INSTALLATION



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## BATTERY BACKUP MODELS

### WIRING

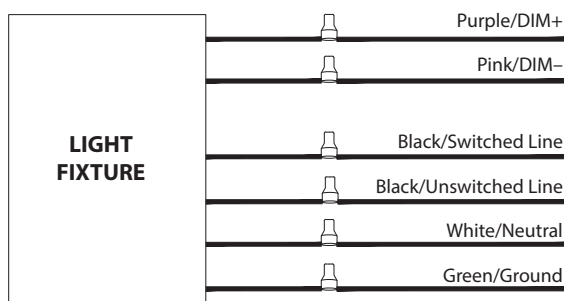
**CAUTION: FOR BATTERY BACKUP FIXTURE.** Voltage can be present in **BATTERY**. To prevent high voltage from being present on output leads, Inverter connector must be open. Do not join **BATTERY** connector until installation is complete and AC power is supplied to the emergency driver. (Fig. 10)

**NOTE:** Make sure that the necessary branch circuit wiring is available. An **UNSWITCHED** AC source of power is required. The emergency driver must be fed from the same branch circuit as the LED driver.

**CAUTION:** Do not use any supply voltage other than 120-277V 50/60 HZ.

1. Connect **UNSWITCHED HOT** fixture lead to **HOT AC** supply line.
2. If using an **UNSWITCHED** circuit, connect **UNSWITCHED** and **SWITCHED** lines together.
3. If using a **SWITCHED** circuit, connect **SWITCHED HOT** AC fixture lead to the external.
4. Connect the pink fixture lead to the (V-) DIM lead.
5. For 0-10V Dmning, connect **DIM (+)** and **DIM (-)** to the supply ground. Do not connect **GROUND** to the output leads.
6. All unused leads must be capped and insulated.
7. After installation is complete, supply AC power to the fixture and connect the **BATTERY**.
8. When power is on, the fixture should be on and the Charging Indicator Light should illuminate to indicate the battery is charging.
9. Once the **BATTERY** has charged for at least one hour, a short duration test may be performed by pressing the test button.
10. After the battery has charged for 24 hours, a long duration test can be performed by shutting power to the fixture.

Fig. 10



### OPERATION

1. When AC power is applied, the charging indicator light is illuminated, indicating that the **BATTERY** is being charged.
2. When power fails, the standby power automatically switches to emergency power (*internal battery*), operating at reduced illumination. The emergency driver supplies power in standby power for a minimum of 90 minutes.
3. When AC power is restored, the emergency driver automatically returns to charging mode.

### MAINTENANCE

Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

1. Visually inspect the charging indicator light monthly. It should be illuminated.
2. Test the emergency operation of the fixture at 30-day intervals for a minimum of 30 seconds.
3. Conduct a 90-minute discharge test once a year. Fixture will operate at reduced illumination for a minimum of 90 minutes.

### TROUBLESHOOTING

1. Is the fixture grounded properly?
2. If the charging indicator light does not illuminate after pressing the test button, check if battery is connected properly.
3. Is the Battery Backup Dip Switch Position set as shown in Fig. 11?

Fig. 11

EMERGENCY BATTERY SETTING		
PRODUCT	WATTAGE	DIP SWITCH POSITION (12W)
EZP 1X4	25-30-40	1 = Off 2 = On
EZP 2X2	25-30-40	
EZP 2X4	30-40-50	

EMERGENCY BATTERY SETTING		
PRODUCT	WATTAGE	DIP SWITCH POSITION (12W)
EZPHE 1X4	25-30-36	1 = Off 2 = On
EZPHE 2X2	25-30-36	
EZPHE 2X4	30-40-50	