

ECOELER CDR616C-9P3X5BB

ECOELER 6-Inch Motion Sensor LED Ceiling Light

MODEL: CDR616C-9P3X5BB - INSTRUCTION MANUAL

1. Introduction

Thank you for choosing the ECOELER 6-Inch Motion Sensor LED Ceiling Light. This manual provides detailed instructions for the safe installation, operation, and maintenance of your new lighting fixture. Please read this manual thoroughly before installation and retain it for future reference.



Image 1.1: Front view of the ECOELER 6-Inch Motion Sensor LED Ceiling Light.

2. Safety Information

To reduce the risk of fire, electric shock, or personal injury, always follow these basic safety precautions:

- **WARNING: Risk of Electric Shock.** Disconnect power at the fuse or circuit breaker before installing or servicing.
- 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.
- Use only 120V AC, 60Hz circuits.
- Do not attempt to disassemble or modify the fixture. There are no user-serviceable parts inside.
- Ensure all connections are secure and properly insulated.
- This fixture is suitable for indoor use only.

3. Package Contents

Verify that all components are present before beginning installation:

- 6-Inch Black Motion Sensor LED Ceiling Light (x1)
- Mounting Hardware (screws, wire nuts)
- E26 Adapter Accessories (for recessed can installation)
- Instruction Manual (this document)

ACCESSORIES

Installs into Junction Box Or Recessed Can



E26 ADAPTER
FOR RECESSED CAN ONLY



SPRING TABS
FOR RECESSED CAN ONLY



2 LONG SCREWS
FOR DEEP J-BOX



2 SHORT SCREWS
FOR SHALLOW J-BOX



WIRE NUTS

Image 3.1: Included accessories for installation.

4. Product Features

- **3CCT Selectable:** Choose between 3000K (Warm White), 4000K (Cool White), and 5000K (Daylight) color temperatures.
- **Motion Sensor:** Passive Infrared (PIR) sensor detects motion within 9-16 feet.
- **Adjustable Time Delay:** Set the light to remain on for 30 seconds, 1 minute, or 5 minutes after motion ceases.
- **Light Sensor:** The motion sensor functions only in dark environments, remaining off during daylight hours.
- **Energy Efficient:** 16W LED provides 1000 lumens of brightness.

- **Versatile Installation:** Compatible with 3.5 or 4-inch junction boxes and 5 or 6-inch recessed cans.

FEATURES

Passive Infrared (PIR) Motion Sensor

Light Sensor

Stays OFF in bright environments

PIR Motion Sensor

The motion sensor only works in dark environments

3 Color Temperatures

3000K/4000K/5000K
Selectable

Time Delay

30sec/1min/5min Adjustable

16 W



1100 LUM



120V AC±20%



Image 4.1: Key features including PIR sensor, 3CCT, and time delay settings.

5. Setup and Installation

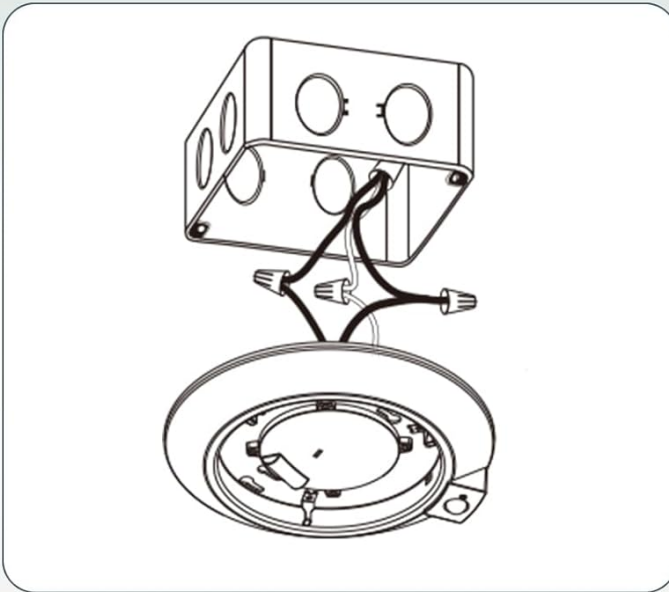
Before installation, ensure the power supply is turned off at the circuit breaker.

5.1. Junction Box Installation

1. Remove the lens by twisting it clockwise.
2. Connect the supply wires to the fixture wires using the provided wire nuts: black to black (live), white to white (neutral), and green/bare copper to green (ground).
3. Attach the fixture base to the junction box using the provided screws.
4. Twist the lens counter-clockwise to secure it back onto the fixture.

5.2. Recessed Can Installation

1. Remove the lens by twisting it clockwise.
2. Install the spring clips onto the fixture base using screws.
3. Connect the E26 adapter to the existing socket in the recessed can.
4. Connect the fixture wires to the E26 adapter wires using wire nuts.
5. Push the disk light into the recessed can until the spring clips secure it.
6. Twist the lens counter-clockwise to secure it back onto the fixture.



JUNCTION-BOX INSTALLATION

FITS 3.5" OR 4" J-BOX

Wire nuts and screws for installation are included with each light.

RECESSED CAN INSTALLATION

FITS BOTH 5" AND 6" CAN

Spring clips, E26 Adapter & wire nuts are included with each light.

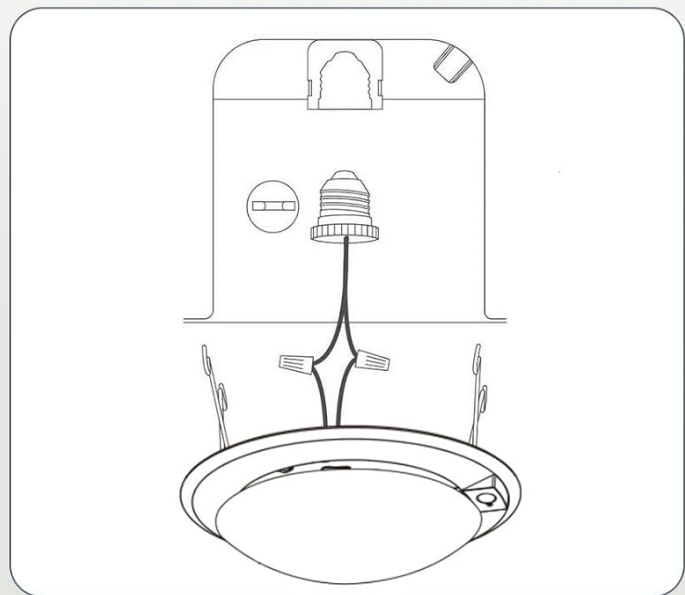


Image 5.1: Installation diagrams for junction box and recessed can.

6. Operating Instructions

After successful installation and restoring power, the light will be ready for operation. The ECOELER motion sensor light operates automatically based on ambient light and motion detection.

6.1. Motion Sensor Functionality

- **Daytime:** The light remains off even if motion is detected, due to the integrated light sensor.

- **Nighttime/Dark Environments:** The light will automatically turn on when motion is sensed within its detection range (approximately 9-16 feet).
- The light will turn off after the set time delay if no further motion is detected.

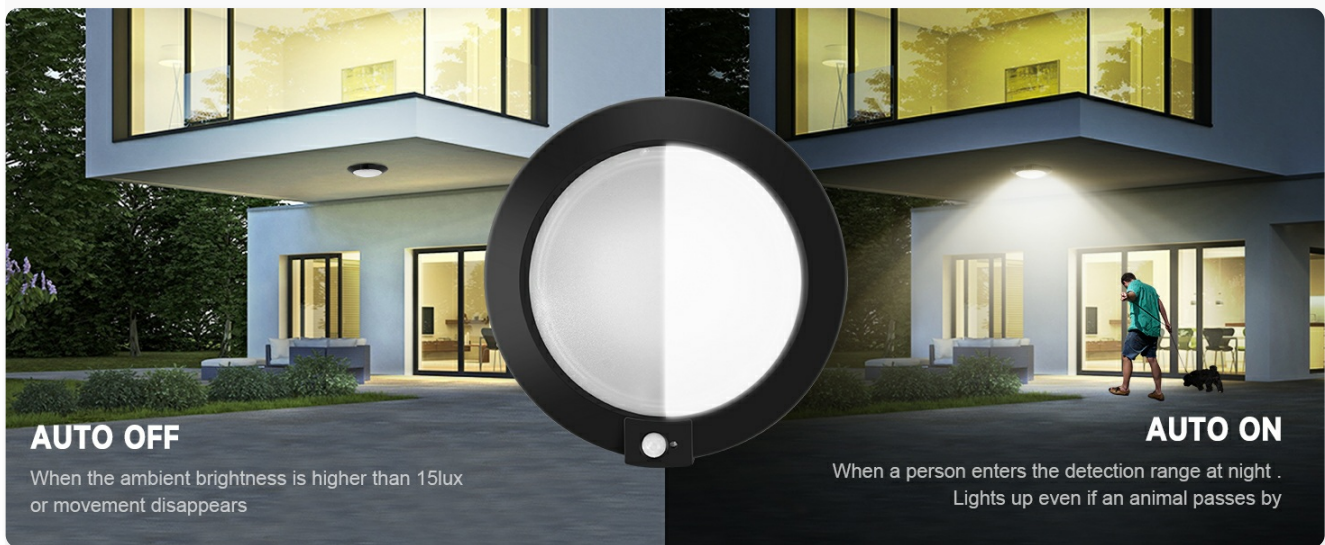


Image 6.1: Motion sensor operation during day and night.

6.2. Color Temperature (CCT) Adjustment

The fixture offers three color temperature options: 3000K (Warm White), 4000K (Cool White), and 5000K (Daylight). To adjust the CCT:

1. Ensure the power is off.
2. Carefully remove the lens by twisting it clockwise.
3. Locate the CCT selector switch on the LED board (refer to Image 4.1).
4. Slide the switch to your desired color temperature setting (3000K, 4000K, or 5000K).
5. Replace the lens by twisting it counter-clockwise.
6. Restore power to test the new setting.

3CCT IN ONE

Free to choose the lighting ambiance you want



Image 6.2: Visual representation of 3CCT options.

6.3. Time Delay Adjustment

The light can be set to remain on for 30 seconds, 1 minute, or 5 minutes after motion is no longer detected. To adjust the time delay:

1. Ensure the power is off.
2. Carefully remove the lens by twisting it clockwise.
3. Locate the time delay selector switch on the fixture (refer to Image 4.1).
4. Slide the switch to your desired time setting (30s, 1min, or 5mins).
5. Replace the lens by twisting it counter-clockwise.
6. Restore power to test the new setting.

COUNTDOWN ADJUSTABLE

Energy Saving & High Efficiency



Image 6.3: Time delay countdown feature.

7. Maintenance

The ECOELER LED ceiling light requires minimal maintenance.

- **Cleaning:** Ensure the power is off before cleaning. Wipe the fixture with a soft, dry, or slightly damp cloth. Do not use harsh chemicals or abrasive cleaners, as they may damage the finish or electronic components.
- **Lens:** Keep the lens clean to ensure optimal light output and motion sensor performance.

8. Troubleshooting

If you experience issues with your ECOELER LED ceiling light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Light does not turn on.	No power supply; Incorrect wiring; Ambient light too bright; Motion sensor obstructed or faulty.	Check circuit breaker and wall switch. Verify wiring connections. Ensure installation is in a dark environment for sensor activation. Clear any obstructions from the sensor.
Light stays on continuously.	Constant motion in detection area; Faulty motion sensor.	Ensure there is no continuous motion within the sensor's range. If the issue persists, contact customer support.
Light turns off too quickly or too slowly.	Time delay setting is incorrect.	Adjust the time delay switch to your desired setting (30s, 1 min, or 5mins) as described in Section 6.3.
Light flickers or dims unexpectedly.	Loose wiring connection; Incompatible dimmer switch (this light is non-dimmable); Power fluctuations.	Check all wiring connections for tightness. Ensure no dimmer switch is being used. Consult an electrician if power fluctuations are suspected.

9. Specifications

Brand	ECOELER
Model Number	CDR616C-9P3X5BB
Product Dimensions	7.48"L x 7.48"W x 1.45"H
Item Weight	11.3 ounces
Color	Black
Material	Acrylic, Aluminum, Plastic
Power Source	Corded Electric
Voltage	120 Volts (AC)
Wattage	16 watts
Brightness	1000 Lumens
Light Color	3CCT: 3000K (Warm White) - 4000K (Cool White) - 5000K (Daylight)
Controller Type	Motion Sensor
Special Features	30sec-1min-5min Countdown Timer Selectable, Adjustable Color Temperature, Energy Efficient, Motion Sensor, Shock Resistant
Installation Type	Flush Mount
Certification	ETL, FCC

10. Warranty and Support

This ECOELER product is backed by a Limited Warranty. For specific warranty details and duration, please refer to the documentation included with your purchase or contact ECOELER customer support.

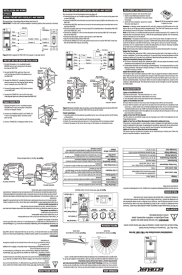
For technical assistance, troubleshooting, or warranty claims, please contact ECOELER customer support through the retailer where the product was purchased or visit the official ECOELER website.

Manufacturer: ECOELER ELECTRIC INC



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Related Documents - CDR616C-9P3X5BB

	<p>ECOELER YM2108T Motion Sensor Light Switch Installation and User Manual</p> <p>Comprehensive guide for installing, wiring, adjusting, and troubleshooting the ECOELER YM2108T motion sensor light switch. Features include PIR detection, time delay, and lux level settings.</p>
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