

ECOELER YDM003

ECOELER YDM003 Single Pole Digital Dimmer Switch User Manual

Model: YDM003 | Brand: ECOELER

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ECOELER YDM003 Single Pole Digital Dimmer Switch. Please read this manual thoroughly before installation and use to ensure safe and optimal performance.

SAFETY INFORMATION

- **WARNING:** To avoid fire, shock, or death, turn off power at the circuit breaker or fuse box and test that power is off before wiring.
- Installation must be performed by a qualified electrician or in accordance with local electrical codes.
- This dimmer switch is for single-pole applications only. Do not use in 3-way or 4-way circuits.
- A neutral wire is **REQUIRED** for this device to function. Ensure your electrical box has a neutral wire (usually white) before installation.
- Do not use with smart bulbs.
- Do not exceed the maximum wattage ratings: 150W for dimmable LED/CFL bulbs, 300W for incandescent/halogen bulbs.

WHAT'S IN THE BOX

- 1 x ECOELER YDM003 Digital Dimmer Light Switch
- 1 x Wall Plate

- Installation Instructions
- Mounting Screws

SETUP AND INSTALLATION

1. **Turn Off Power:** Before starting, ensure power is OFF at the circuit breaker or fuse box to prevent electrical shock.

2. **Verify Wiring:**

Confirm that your electrical box contains a neutral wire (typically white). This dimmer requires a neutral wire for proper operation. Identify the Hot (Line), Load, Ground, and Neutral wires.

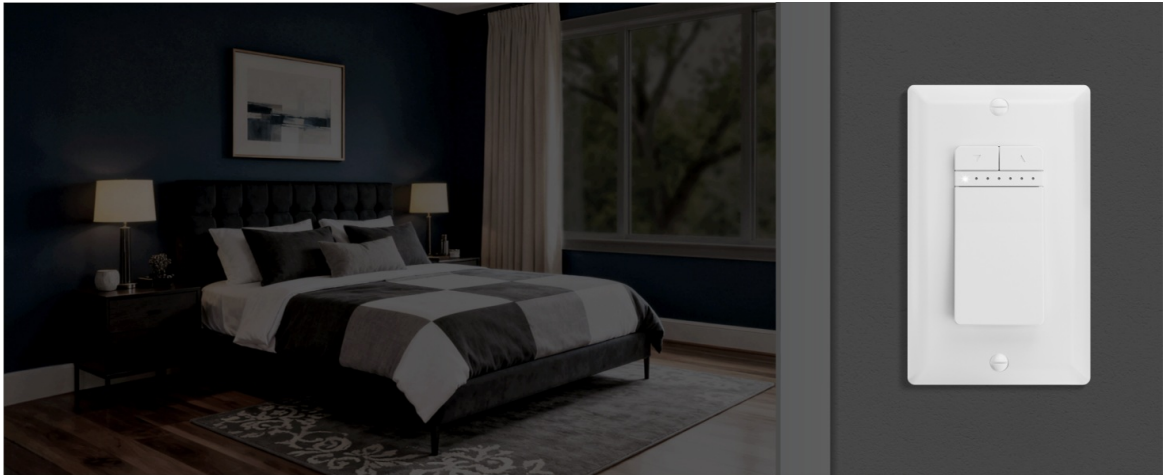


Image: Wiring diagram for the ECOELER dimmer switch, illustrating connections for Hot (black), Load (red), Ground (green), and Neutral (white) wires. The diagram emphasizes that a neutral wire is required.

3. **Wire Connections:**

- Connect the **Hot (Line)** wire from the wall box to the dimmer's black wire.
- Connect the **Load** wire (to the light fixture) from the wall box to the dimmer's red wire.
- Connect the **Ground** wire from the wall box to the dimmer's green wire.
- Connect the **Neutral** wire from the wall box to the dimmer's white wire.
- Secure all connections with wire nuts.

SINGLE POLE ONLY

Neutral Wire Require

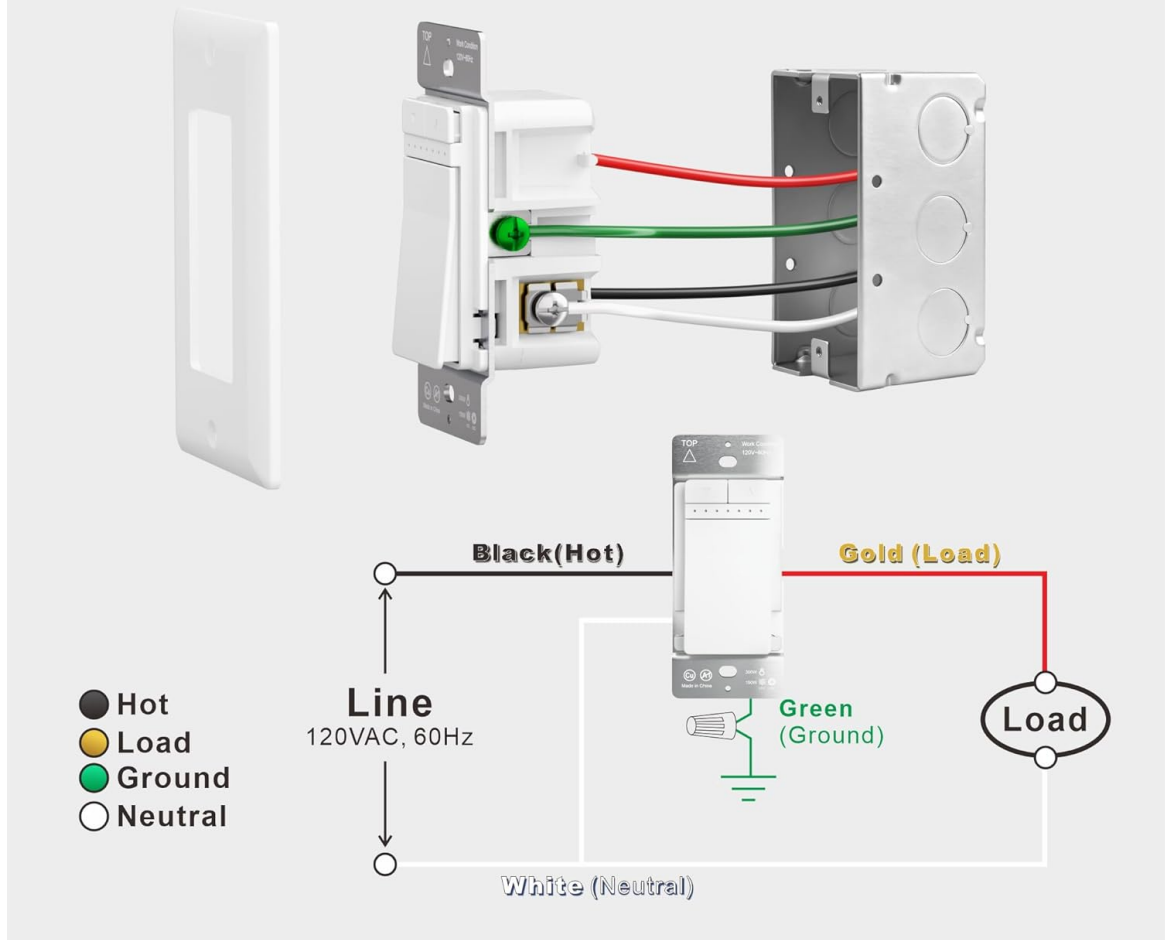


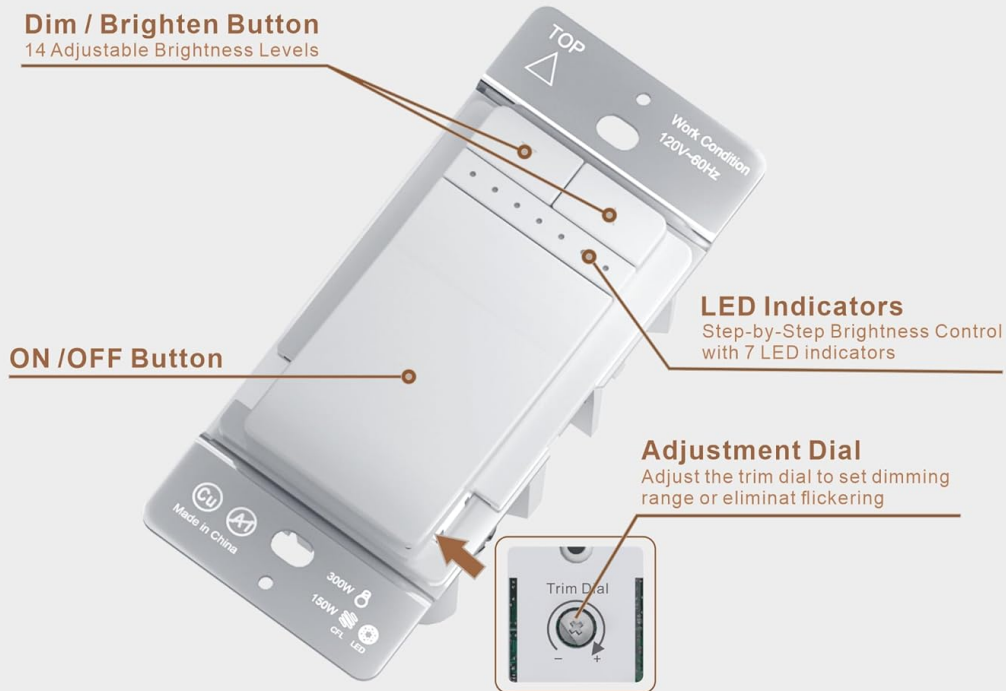
Image: A detailed diagram showing the ECOELER dimmer switch connected to a single-pole circuit. It clearly labels the Hot (black), Load (red), Ground (green), and Neutral (white) wires, emphasizing the neutral wire requirement.

4. **Mount the Dimmer:** Carefully fold the wires and push the dimmer into the wall box. Secure it with the provided screws.
5. **Install Wall Plate:** Attach the decorative wall plate over the dimmer switch.
6. **Restore Power:** Turn power back ON at the circuit breaker.

OPERATING INSTRUCTIONS

Main Controls

SIMPLE DIMMER



Single Pole
Only



Neutral
Wire Required



Easy
Operation



FCC/ETL
Listed

Image: An exploded view diagram of the ECOELER dimmer switch, highlighting its main components: the Dim/Brighten buttons, the ON/OFF button, the LED indicators for brightness level, and the hidden trim dial for adjustment.

- **ON/OFF Button:** Press the large paddle switch to turn lights ON or OFF.
- **Dim/Brighten Buttons:** Use the small up (▲) and down (▼) buttons to adjust the brightness level. There are 13 dimming levels.
- **LED Indicators:** The 7 LED lights indicate the current brightness level.
- **Fade On/Off:** Lights will gradually illuminate or dim to protect your eyes and extend bulb lifespan. The lowest LED indicator remains softly lit for easy location in the dark.

Minimum Brightness Adjustment (Trim Dial)

The trim dial allows you to set the minimum brightness level to prevent flickering or premature turn-off at low settings, especially with certain LED bulbs.



Image: A visual guide demonstrating how to adjust the minimum brightness using the trim dial. It shows removing the rocker cover, locating the dial, and turning it clockwise for brighter minimum or counter-clockwise for less bright minimum.

1. Turn on the dimmer and adjust it to the lowest setting using the down (▼) button.
2. Carefully remove the rocker cover (the large paddle switch) to expose the trim dial.
3. Use a small screwdriver to rotate the "Trim Dial".
 - Turn clockwise (+) to increase the minimum brightness.
 - Turn counter-clockwise (-) to decrease the minimum brightness.

Adjust until the preferred lowest light level is achieved without flickering.

4. Replace the rocker cover.

COMPATIBILITY

The ECOELER YDM003 dimmer switch is designed for wide compatibility with various bulb types:

- Dimmable LED bulbs up to 150W
- Dimmable CFL bulbs up to 150W
- Incandescent or Halogen bulbs up to 300W

Important: This dimmer is **NOT compatible with smart bulbs**. Ensure your bulbs are explicitly labeled as "dimmable" for optimal performance.

UNIVERSAL COMPATIBILITY



150W/120V
Dimmable LED Lamp



150W/120V
CFL Lamp



300W/120V
Incandescent Lamp



Works with 99% of dimmable LED, CFL, incandescent and halogen light bulbs.

Image: The ECOELER dimmer switch displayed next to illustrations of compatible bulb types: 150W/120V Dimmable LED Lamp, 150W/120V CFL Lamp, and 300W/120V Incandescent Lamp.

MAINTENANCE

- To clean the dimmer switch and wall plate, wipe with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure power is off at the circuit breaker before cleaning.
- Periodically check for loose connections or signs of wear. If any issues are found, consult a qualified electrician.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Lights do not turn ON.	<ul style="list-style-type: none"> No power to the switch. Incorrect wiring. Bulbs are not working or are incompatible. 	<ul style="list-style-type: none"> Check circuit breaker. Verify wiring connections (Hot, Load, Neutral, Ground). Ensure neutral wire is connected. Test bulbs in another fixture or replace them. Ensure bulbs are dimmable.
Lights flicker at low settings.	<ul style="list-style-type: none"> Minimum brightness setting is too low for the bulbs. Incompatible bulbs. 	<ul style="list-style-type: none"> Adjust the trim dial to increase the minimum brightness (see "Minimum Brightness Adjustment"). Ensure bulbs are dimmable and compatible with the dimmer.
Dimmer does not respond to button presses.	<ul style="list-style-type: none"> No power. Loose wiring connection. Dimmer malfunction. 	<ul style="list-style-type: none"> Check circuit breaker. Turn off power and re-check all wiring connections. If issues persist, contact customer support.

SPECIFICATIONS

Feature	Detail
Model	YDM003
Brand	ECOELER
Operation Mode	ON-OFF
Current Rating	5 Amps
Operating Voltage	120 Volts (AC)
Contact Type	Push Button
Connector Type	Screw
Switch Type	Digital Dimmer Light Switch
Terminal	Screw
Material	Aluminum, Metal, Polycarbonate
Item Dimensions (L x W x H)	1.77 x 1.7 x 4.13 inches
Circuit Type	1-way (Single-Pole Only)

Feature	Detail
Mounting Type	Wall Mount
Actuator Type	Push Button
Number of Positions	1
Temperature Rating	32°F to 104°F (0°C to 40°C)
Controller Type	Dimmer switch
Control Method	Push Button
Wattage	300 watts (Incandescent/Halogen), 150 watts (LED/CFL)
Compatible Devices	150W Dimmable LED/CFL Lights, 300W Incandescent/Halogen Lamp
Unit Count	1.0 Count
Contact Material	Relay
International Protection Rating	IP40
Certifications	ETL, FCC Listed

WARRANTY AND SUPPORT

ECOELER provides a one-year limited warranty against manufacturing defects under normal use. Replacement or refund services are available. For support or warranty claims, please contact the seller via Amazon.

For additional information or assistance, visit the [ECOELER Store on Amazon](#).