BN-LINK U211A

BN-LINK Countdown Timer Switch

Model: U211A

User Instruction Manual

1. Introduction

The BN-LINK Countdown Timer Switch is designed to provide convenient and energy-saving control over various electrical loads such as exhaust fans, bathroom fans, lights, and heaters. Featuring six preset countdown options and a manual on/off button, this switch automates shut-off operations, helping to reduce energy consumption and electricity bills. This manual provides detailed instructions for installation, operation, and maintenance to ensure safe and efficient use of your timer switch.

2. Safety Information

WARNING: Risk of electric shock. Improper installation can lead to serious injury or death. Always turn off power at the circuit breaker before installation or servicing. Installation should be performed by a qualified electrician or in accordance with local electrical codes.

- Ensure the main power is turned off at the circuit breaker before beginning any installation.
- This device requires a neutral wire for proper operation. Verify that a neutral wire is present in your electrical box before installation.
- This switch is designed for single-pole applications only. Do not attempt to install in 3-way or multi-way switch configurations.
- Do not exceed the specified electrical ratings: 125V, 60 Hz, 15A/1875W Resistive or General Purpose, 10A/1250W Ballast or Tungsten, ½ HP, TV-5.
- Always use appropriate wire connectors and ensure all connections are secure.

3. Package Contents

Verify that all components are present in the package:

- BN-LINK Countdown Timer Switch (Model U211A)
- Wall Plate (Free Plate)
- Wire Nuts

- Mounting Screws

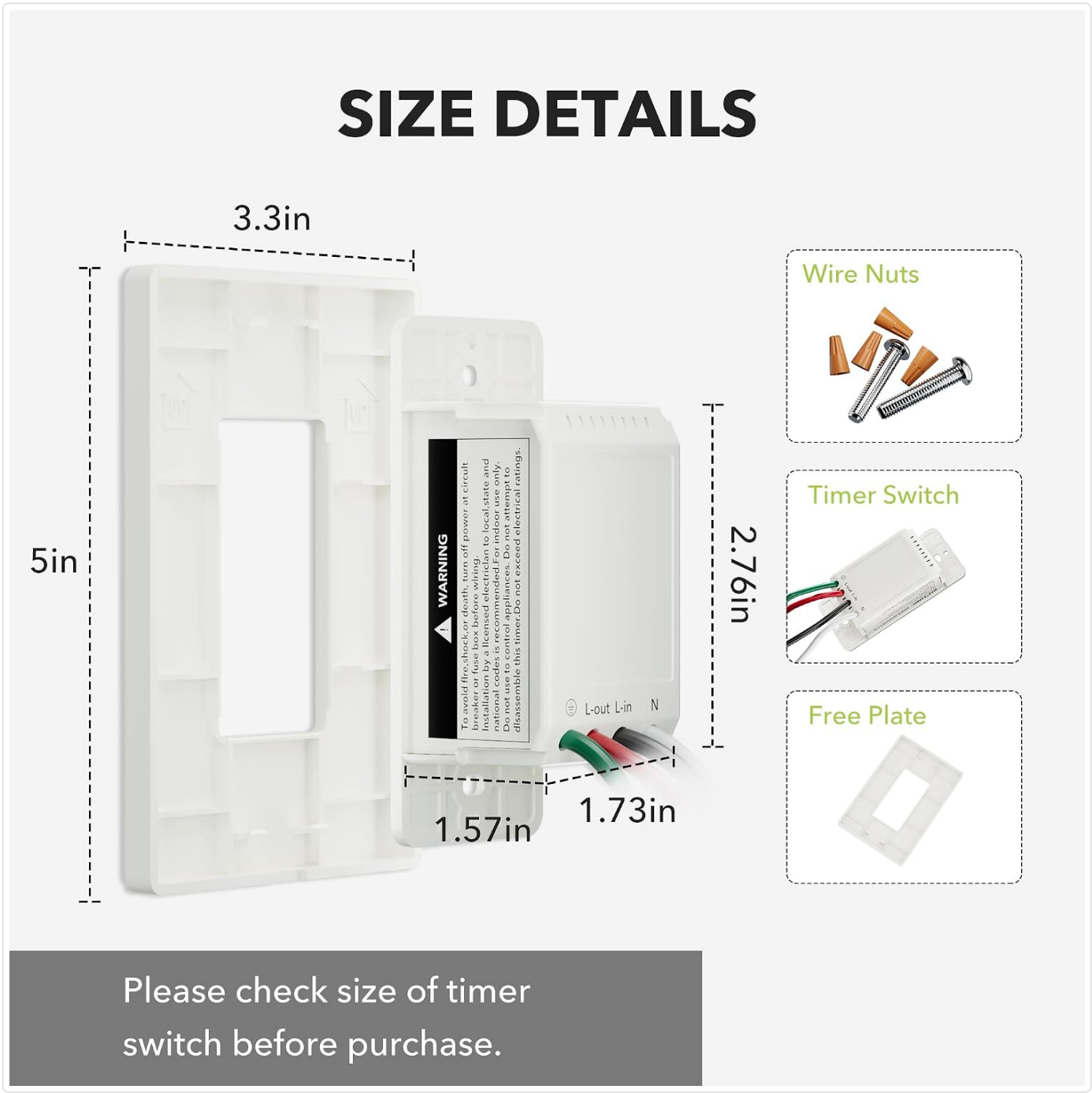


Figure 3.1: Package Contents and Dimensions

Please check the size of the timer switch before purchase to ensure it fits your electrical box. Dimensions: 2.76 x 1.73 x 1.57 inches.

4. Specifications

Attribute	Value
Operation Mode	ON-OFF
Current Rating	15 Amps
Operating Voltage	125 Volts

Contact Type	Normally Open
Connector Type	Wired
Terminal	Screw
Item Dimensions (L x W x H)	2.76 x 1.73 x 1.57 inches
Circuit Type	1-way (Single Pole)
Actuator Type	Push Button
Contact Material	Metal
International Protection Rating	IP54
Number of Positions	1
Lower Temperature Rating	5 Degrees Fahrenheit (-15°C)
Upper Temperature Rating	122 Degrees Fahrenheit (50°C)
Control Method	Touch
Color	White
Wattage	1875 watts
Item Weight	5.6 ounces
Batteries Required	No

5. Installation

The BN-LINK Countdown Timer Switch is designed for effortless installation, replacing your existing wall switch. A neutral wire is required for proper operation.

5.1 Pre-Installation Checklist

- Confirm that your electrical box has a neutral wire (typically white).
- Ensure the circuit is single-pole (controlled by one switch).
- Gather necessary tools: screwdriver, wire strippers, electrical tape, voltage tester.

5.2 Wiring Instructions

1. **Turn off Power:** Locate the circuit breaker that controls the switch you are replacing and turn it OFF. Verify the power is off using a voltage tester before proceeding.
2. **Remove Old Switch:** Carefully remove the existing wall plate and unscrew the old switch from the electrical box. Disconnect the wires from the old switch, noting which wire was connected to which terminal (e.g., Line, Load, Ground).
3. **Identify Wires:**
    - **Green Wire:** Ground wire. Connect to the bare copper or green wire from the electrical box.
    - **White Wire:** Neutral wire. Connect to the white neutral wire from the electrical box.
    - **Black Wire:** Hot (Line) wire. Connect to the black wire that brings power into the switch box.
    - **Red Wire:** Load wire. Connect to the wire that goes to your light fixture or fan.
4. **Connect New Switch:** Using the provided wire nuts, connect the wires from the BN-LINK timer switch to the corresponding

wires in your electrical box. Ensure all connections are tight and secure.

5. **Mount Switch:** Carefully push the wired switch into the electrical box. Secure it with the mounting screws.
6. **Install Wall Plate:** Attach the included wall plate over the switch.
7. **Restore Power:** Turn the power back ON at the circuit breaker.



Figure 5.1: Wiring Diagram for BN-LINK Timer Switch

Important: If you are unsure about any step of the installation process, consult a qualified electrician.

6. Operating Instructions

The BN-LINK Countdown Timer Switch features a user-friendly interface with preset countdown options and an on/off button.

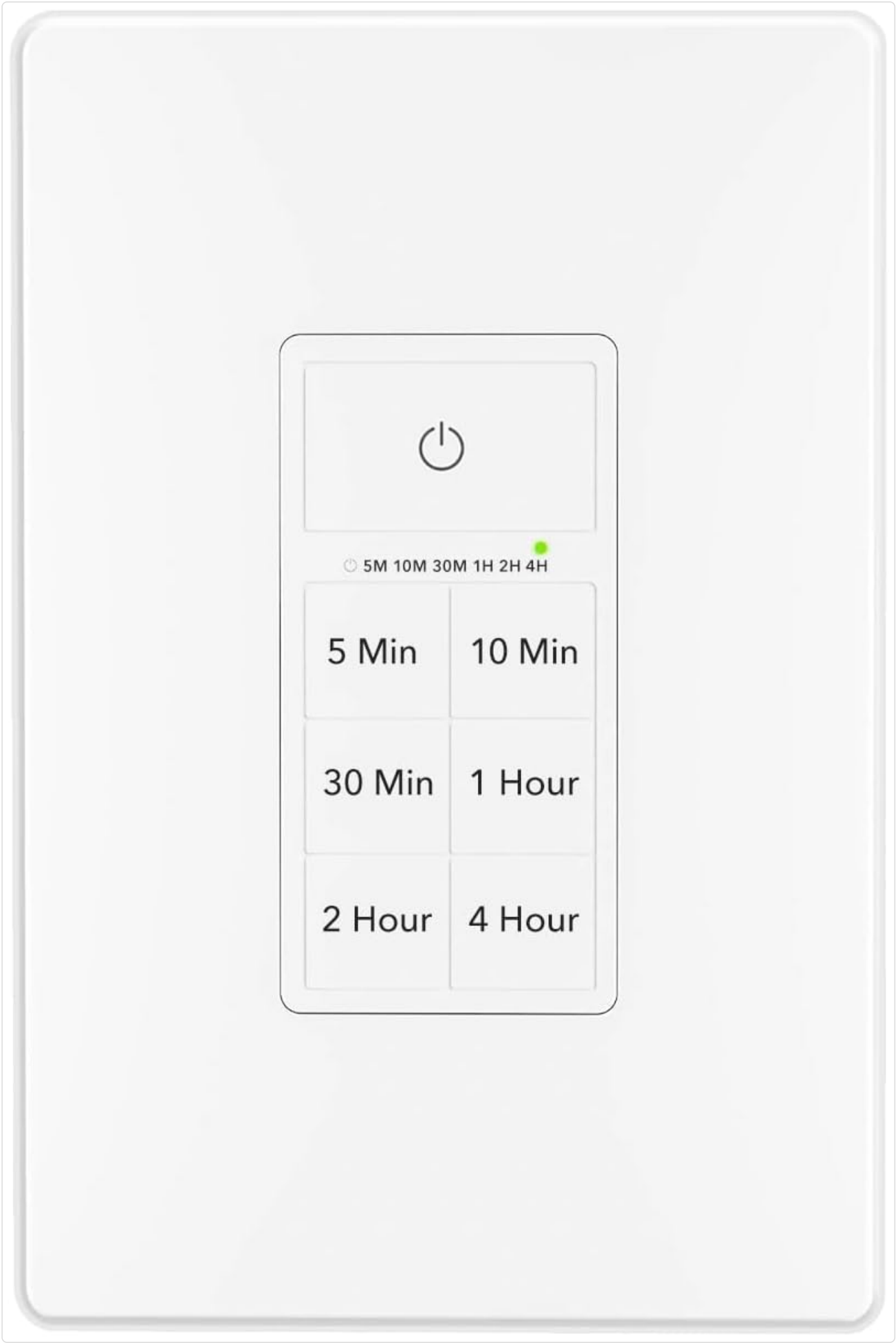


Figure 6.1: Front Panel of the Timer Switch

6.1 Countdown Operation

The switch offers six preset countdown times:

- 5 Minutes (5 Min)
- 10 Minutes (10 Min)
- 30 Minutes (30 Min)
- 1 Hour (1 Hour)
- 2 Hours (2 Hour)
- 4 Hours (4 Hour)

To activate a countdown:

1. Press the button corresponding to your desired countdown time (e.g., "5 Min", "10 Min").
2. The connected device (light, fan, etc.) will turn on, and the timer will begin counting down.
3. An LED indicator next to the selected time will illuminate, clearly showing which countdown is active.
4. Once the countdown expires, the connected device will automatically turn off.

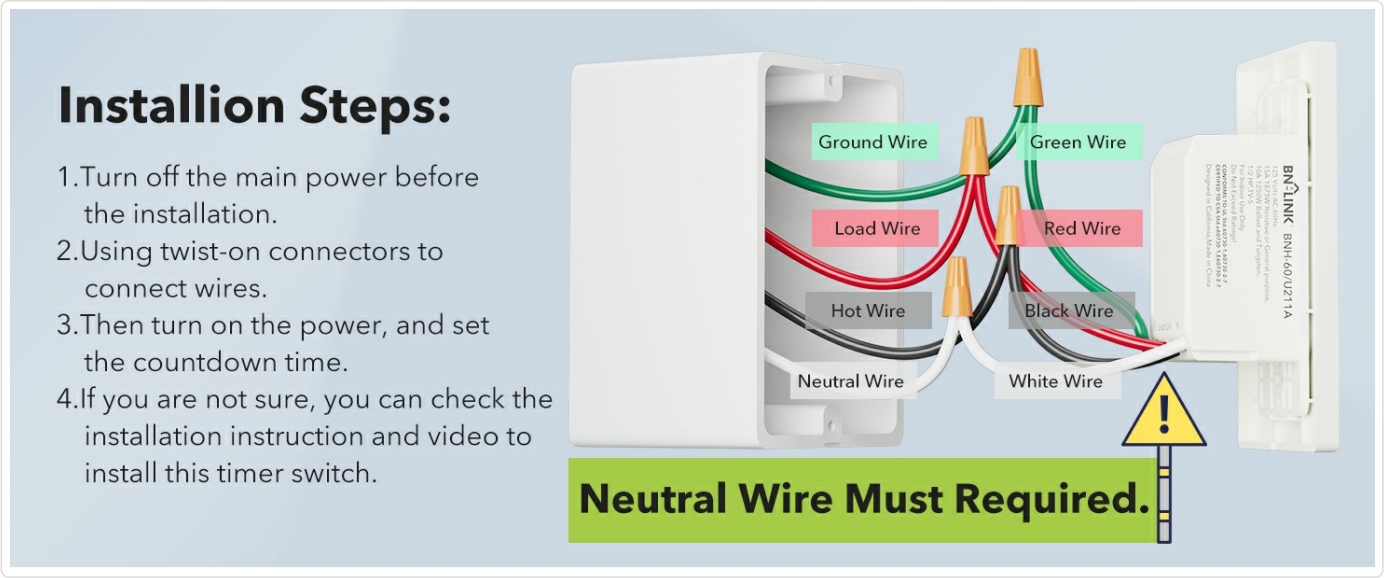


Figure 6.2: Timer Switch Features

6.2 Manual On/Off Operation

The large power button at the top of the switch allows for manual control, overriding any active countdown.

- Press the power button once to turn the connected device ON.
- Press the power button again to turn the connected device OFF.
- If a countdown is active, pressing the power button will immediately turn off the device and cancel the countdown.



Figure 6.3: Countdown and Energy Saving Functionality

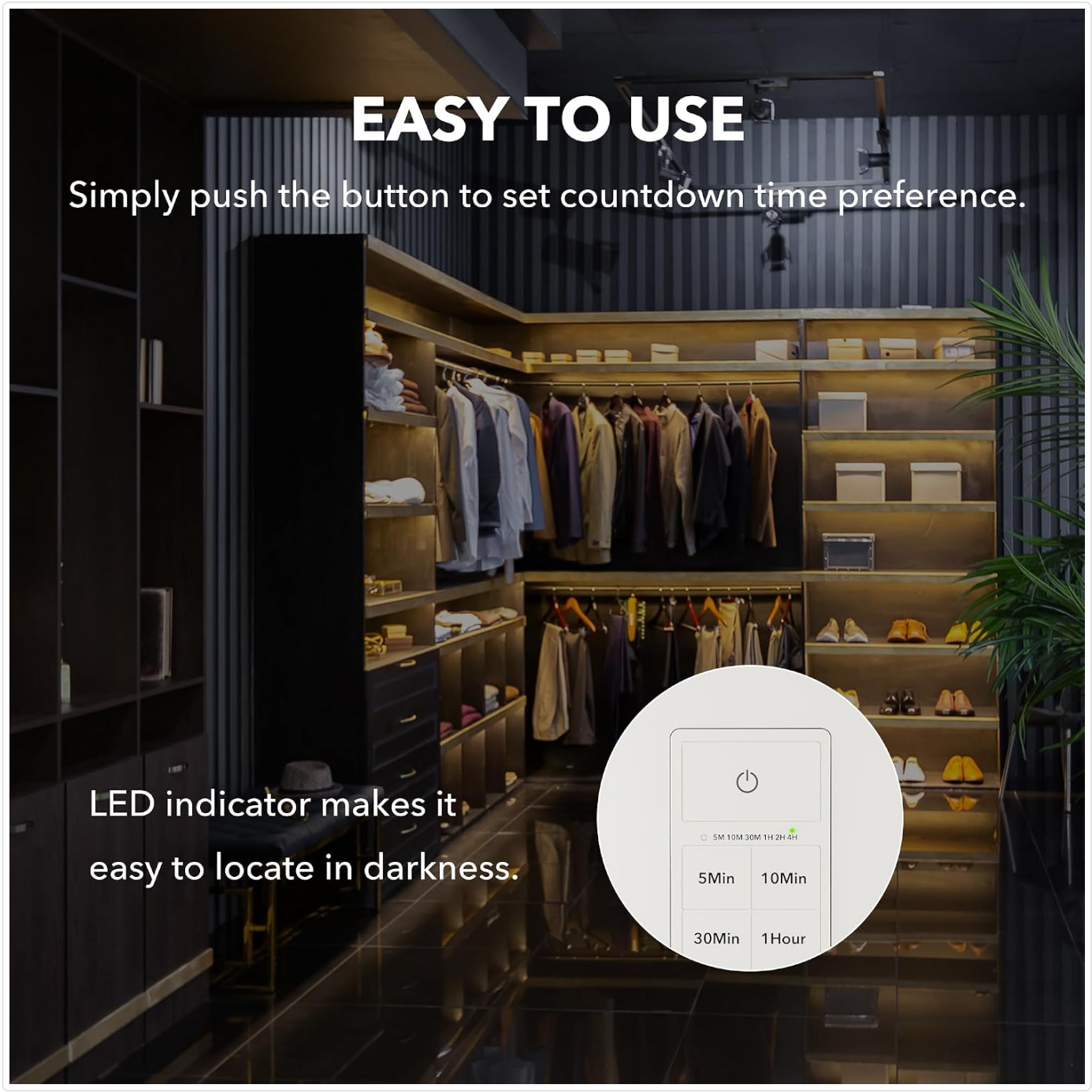


Figure 6.4: Easy to Use with LED Indicator

7. Maintenance

The BN-LINK Countdown Timer Switch requires minimal maintenance.

- **Cleaning:** To clean the switch, gently wipe the surface with a soft, damp cloth. Do not use harsh chemicals, abrasive cleaners, or excessive moisture.
- **Inspection:** Periodically inspect the switch and wall plate for any signs of damage or loose connections. If any issues are found, turn off power at the circuit breaker and address them promptly.
- **No User-Serviceable Parts:** There are no user-serviceable parts inside the switch. Do not attempt to open or repair the unit.

8. Troubleshooting

If you encounter issues with your BN-LINK Countdown Timer Switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Switch does not turn on/off or respond.	No power to the switch; incorrect wiring; loose connection.	Check circuit breaker. Verify wiring connections (Line, Load, Neutral, Ground) are correct and secure. Ensure neutral wire is connected.
LED indicators do not light up.	No power; switch is off; LED is only active during countdown.	Ensure power is on. Press a countdown button to activate the timer and observe if the LED illuminates. LEDs only light up when a countdown is active.
Switch does not fit into the electrical box or wall plate.	Electrical box is too small or not standard; screws for multi-gang plate are incompatible.	Verify electrical box dimensions (2.76 x 1.73 x 1.57 inches). If using a multi-gang plate, ensure compatible screws are used or consider a single-gang installation.
Connected device turns off unexpectedly.	Countdown timer expired.	This is normal operation. Select a longer countdown time or use the manual ON/OFF button for continuous operation.
Buttons or lettering are difficult to read.	Small font size.	This is a design characteristic. Ensure adequate lighting in the installation area for better visibility.

If the problem persists after trying these solutions, please contact BN-LINK customer support.

9. Warranty and Support

BN-LINK products are designed for reliability and performance. While specific warranty details are not provided in this manual, most BN-LINK products come with a standard manufacturer's warranty covering defects in materials and workmanship.

9.1 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact BN-LINK customer support through their official website or the retailer where the product was purchased. Have your product model number (U211A) and purchase information ready when contacting support.
You can visit the official BN-LINK store for more information and contact options:BN-LINK Amazon Store

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