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› Insteon Smart Dimmer Wall Switch 2477D (600W) Instruction Manual

Insteon 2477D

Insteon Smart Dimmer Wall Switch 2477D (600W) Instruction Manual

Model: 2477D | Brand: Insteon

INTRODUCTION

The Insteon Smart Dimmer Wall Switch 2477D is designed to provide intelligent control over your lighting. This device allows for programmable on-levels and fade on/off speeds, and can be remotely controlled when integrated with an Insteon Hub. It supports dimmable lights up to 150 Watts of LED or 600 Watts incandescent. This manual provides essential information for installation, setup, and operation.

IMPORTANT SAFETY INFORMATION

- **Neutral Wire Requirement:** This switch requires a neutral wire for proper operation. Verify the presence of a neutral wire in your electrical box before installation.
- **Professional Installation Recommended:** Installation involves working with high voltage electricity. If you are not comfortable with electrical wiring, consult a qualified electrician.
- **Heat Generation:** It is normal for the dimmer switch to feel warm during operation. This is within UL-approved limits and does not pose a safety risk.
- **Load Compatibility:** Only connect to dimmable incandescent or LED lighting fixtures within the specified wattage limits (600W incandescent, 150W LED). Do not connect to non-dimmable loads or motor loads.
- **Proposition 65 Warning:** This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

PACKAGE CONTENTS

- Insteon 2477D Dimmer Wall Switch (1x)
- Mounting Screws (2x)
- Quick Start Guide (1x)
- Wire Nuts (4x)

Note: Wall plate is sold separately. Insteon Hub 2 (2245-222) and Insteon Home Connected Access are required for smartphone/voice control and are sold separately.

INSTALLATION

Installation must be performed by a qualified person.

1. **Turn off Power:** At the service panel, turn off the circuit breaker supplying power to the switch you are replacing. Verify power is off using a voltage tester.
2. **Remove Existing Switch:** Carefully remove the existing wall plate and switch from the electrical box. Disconnect all wires from the old switch.
3. **Identify Wires:** Identify the Line (hot), Load, Neutral, and Ground wires. The Insteon 2477D requires a neutral wire.



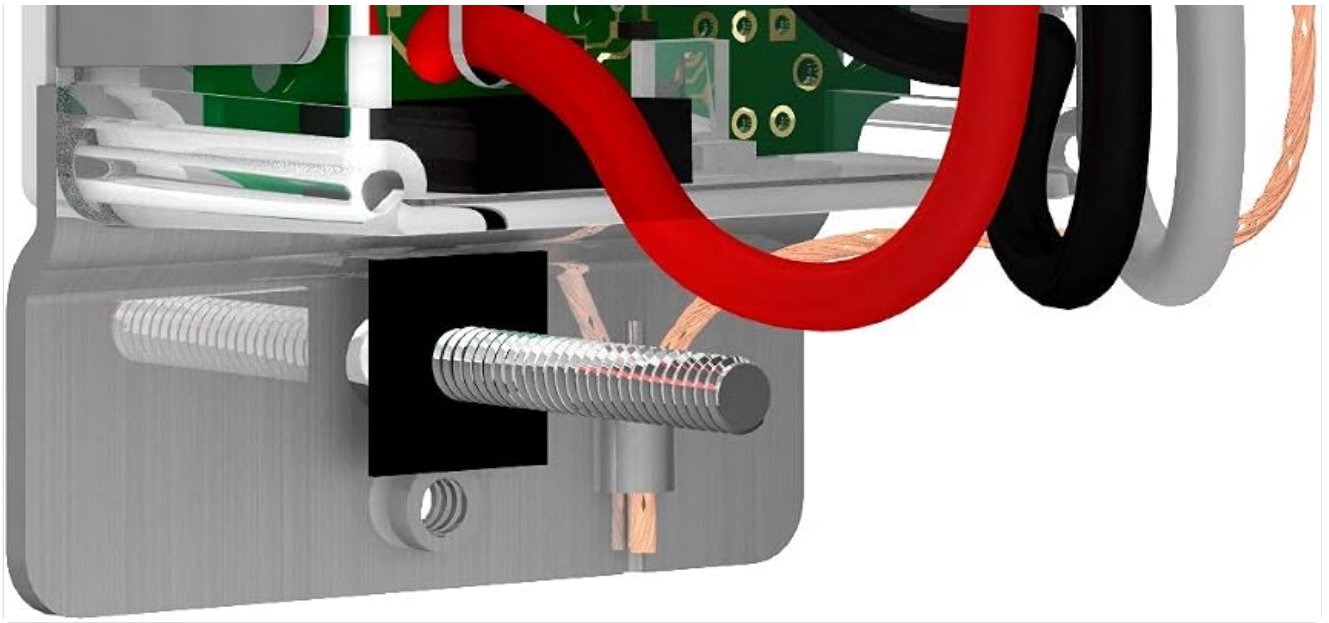


Image: Insteon Dimmer Switch Basic Wiring Diagram. This diagram illustrates the connections for Line, Load, Neutral, and Ground wires.

4. **Connect Wires:** Using the included wire nuts, connect the Insteon Dimmer Switch wires to the corresponding wires in the electrical box.

- **Black Wire (Insteon) to Line Wire (from service panel)**
- **Red Wire (Insteon) to Load Wire (to light fixture)**
- **White Wire (Insteon) to Neutral Wire (from service panel)**
- **Green/Bare Copper Wire (Insteon) to Ground Wire**

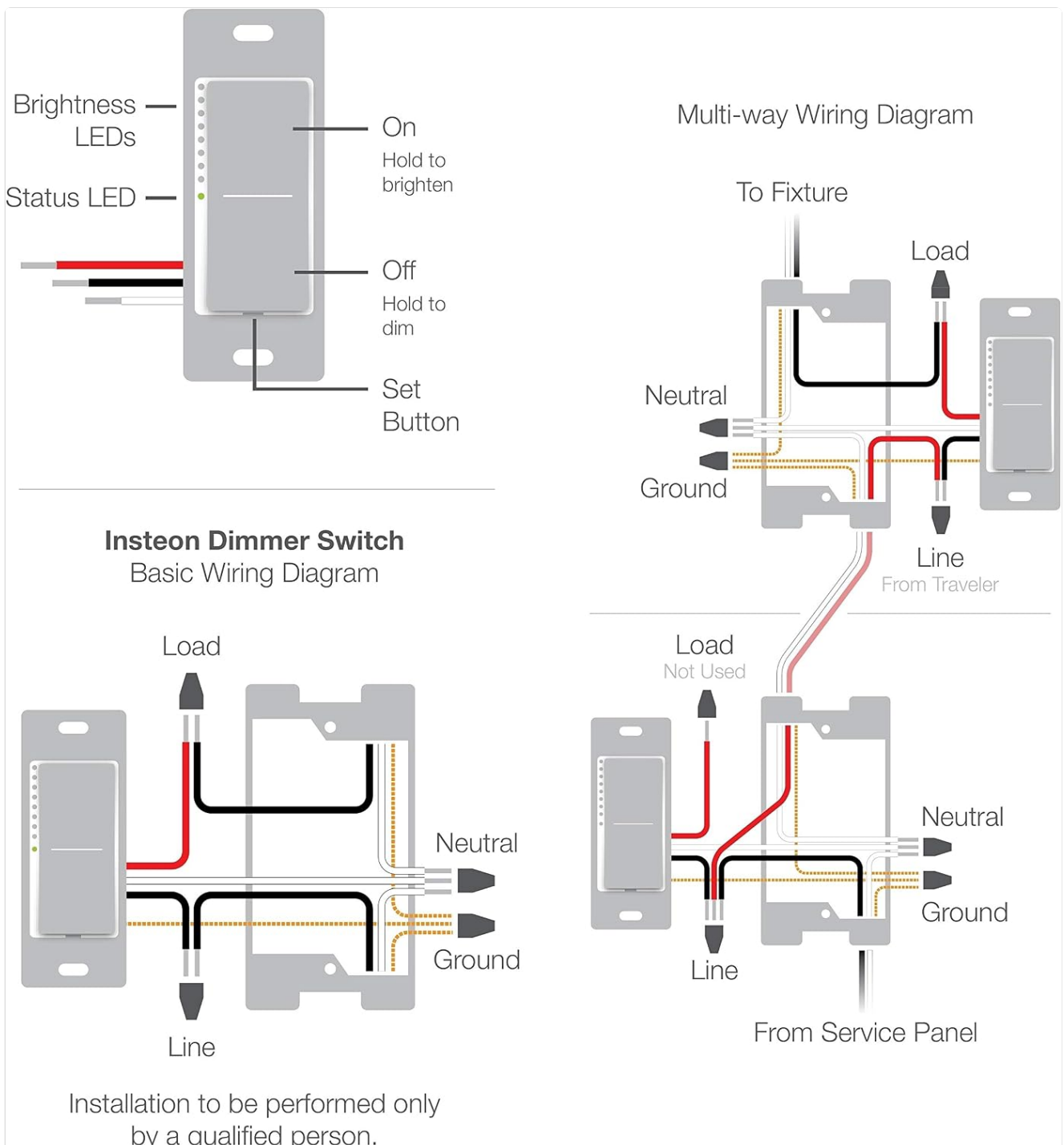


Image: Internal wiring of the Insteon Dimmer Switch 2477D. This image shows the connection points for the Line, Load, Neutral, and Ground wires within the switch housing.

5. **Mount Switch:** Carefully push the wired switch into the electrical box. Secure it with the provided mounting screws.
6. **Attach Wall Plate:** Install your desired wall plate (sold separately).
7. **Restore Power:** Turn the circuit breaker back on at the service panel.

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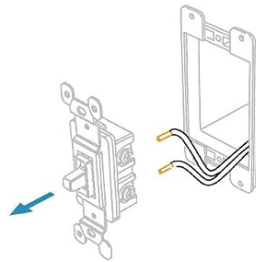
Getting Started with Insteon Dimmer Switch



Get Started

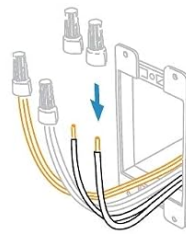
insteon.com/get-started-2477d

- 1 **Turn off power** at the service panel and remove the existing wall switch.

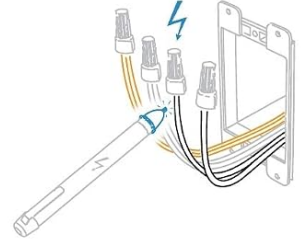


Installation to be performed only by a qualified person.

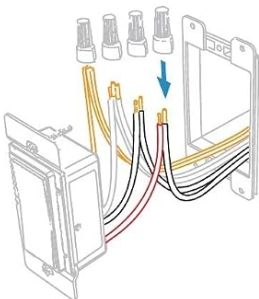
- 2 Unfold all of the wires from within the junction box. Separate the black wires and cap them with wire nuts.



- 3 **Turn on power** and use a voltage detector to identify the live wire; this is your line wire.

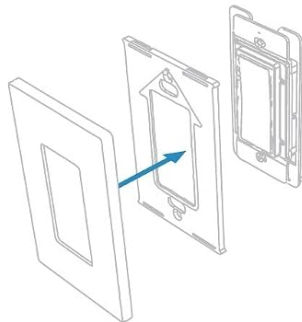


- 4 **Turn off power** and connect the corresponding wires from the junction box with the Insteon Wall Switch and cap them with wire nuts.



Additional wiring diagrams available at insteon.com/get-started-2477d

- 5 Install the Insteon Wall Switch, attach the wall plate and **turn on power**.



- 6 Follow the instructions in the Insteon app to add Dimmer Switch.



- 7 When prompted, press and hold Dimmer Switch's set button until you hear a double-beep.



Only connect dimmable bulbs to Dimmer Switch.

For more documentation, visit: insteon.com/get-started-2477d

Rev 6.22.16

Image: Visual guide for Insteon Dimmer Switch installation. This image provides a step-by-step visual representation of the installation process, from turning off power to mounting the switch.

SETUP AND CONFIGURATION

To unlock the full smart features of your Insteon Dimmer Wall Switch, an Insteon Hub (sold separately) is required.

1. **Download Insteon App:** If you haven't already, download the Insteon app on your smartphone or tablet.
2. **Add Device in App:** Open the Insteon app and follow the instructions to add a new device. Select "Dimmer Switch."
3. **Link Switch:** When prompted by the app, press and hold the "Set" button on your Insteon Dimmer Switch until you hear a double-beep. The app will then guide you through the linking process.



Image: Insteon app interface for dimmer control. This image shows a smartphone screen with the Insteon app, demonstrating how to control the dimmer switch brightness via a slider.

4. **Customize Settings:** Within the Insteon app, you can customize various settings for your dimmer switch, including:
 - **Preset On-Level:** Set the default brightness level when the switch is turned on.
 - **Fade On/Off Speed:** Adjust how quickly the lights fade in and out.
 - **LED Indicator Brightness:** Control the brightness of the status LEDs on the switch.
5. **Voice Control Integration:** If integrated with an Insteon Hub 2 (2245-222) and Insteon Home Connected Access, you can integrate with Amazon Alexa or Google Assistant for voice control. Refer to your Insteon Hub documentation for specific instructions on linking with these platforms.

OPERATION

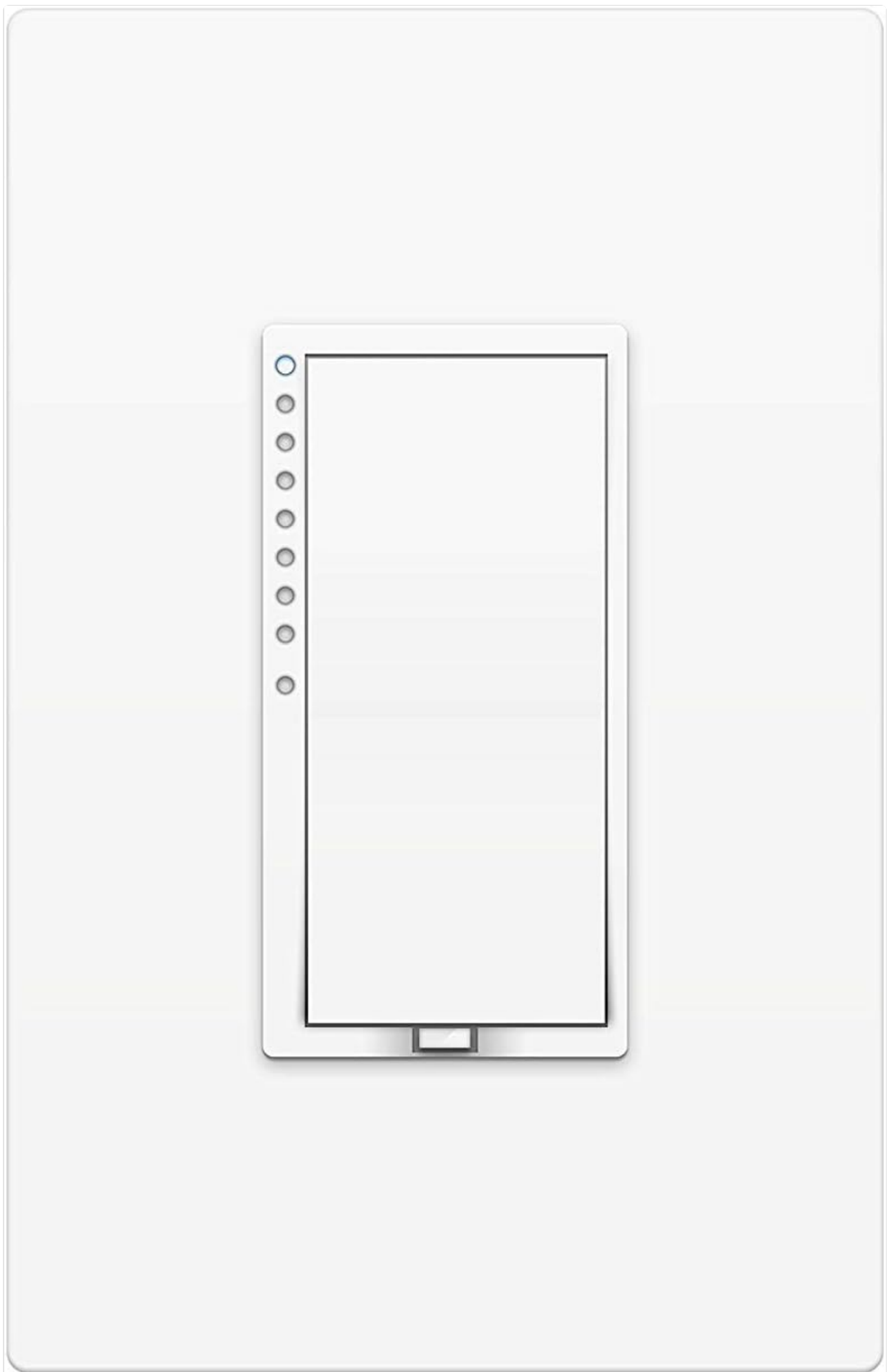


Image: Front view of the Insteon Dimmer Switch. This image highlights the main rocker switch for on/off control and the row of LED indicators on the left side.

Manual Control

- **Turn On/Off:** Press the top part of the rocker switch to turn lights on. Press the bottom part to turn lights off.
- **Dim/Brighten:** Press and hold the top part of the rocker switch to brighten lights. Press and hold the bottom part to dim lights. Release when the desired brightness is reached.
- **Status LEDs:** The row of LEDs on the left side of the switch indicates the current brightness level.

Remote Control (with Insteon Hub)

- **Smartphone/Tablet:** Use the Insteon app to turn lights on/off, adjust brightness, and create schedules or scenes.
- **Voice Commands:** If integrated with Amazon Alexa or Google Assistant, use voice commands to control your lights (e.g., "Alexa, turn on living room lights," "Hey Google, dim kitchen to 50%").
- **Insteon Remotes/Keypads:** Pair with other Insteon devices like handheld remotes or wall keypads for additional control options.

MAINTENANCE

- **Cleaning:** To clean the switch, gently wipe with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Firmware Updates:** Periodically check the Insteon app for any available firmware updates for your switch to ensure optimal performance and security.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Switch does not respond.	No power to the switch; incorrect wiring; circuit breaker tripped.	Check circuit breaker. Verify wiring connections (Line, Load, Neutral, Ground). Ensure power is restored.
Lights do not dim or flicker.	Non-dimmable bulbs; incompatible load; wattage exceeded.	Ensure you are using dimmable LED or incandescent bulbs. Verify total wattage does not exceed 150W LED or 600W incandescent.
Cannot control via Insteon app.	Switch not linked to Hub; Hub offline; network issues.	Ensure Insteon Hub is online and connected. Re-link the switch to the Hub via the Insteon app. Check your home network connection.
Switch feels warm.	Normal operation.	This is normal for dimmer switches and is within safety standards. No action required unless excessive heat or smoke is present.

SPECIFICATIONS

Feature	Detail
Model Number	2477D
Wattage	600W Incandescent, 150W LED
Operating Voltage	120 Volts
Current Rating	1 Amps

Feature	Detail
Connectivity Protocol	Insteon
Control Method	Voice (via Insteon Hub), App, Manual
Dimensions (L x W x H)	4 x 2 x 2 inches
Item Weight	3.6 ounces
Color	White
Requires Neutral Wire	Yes

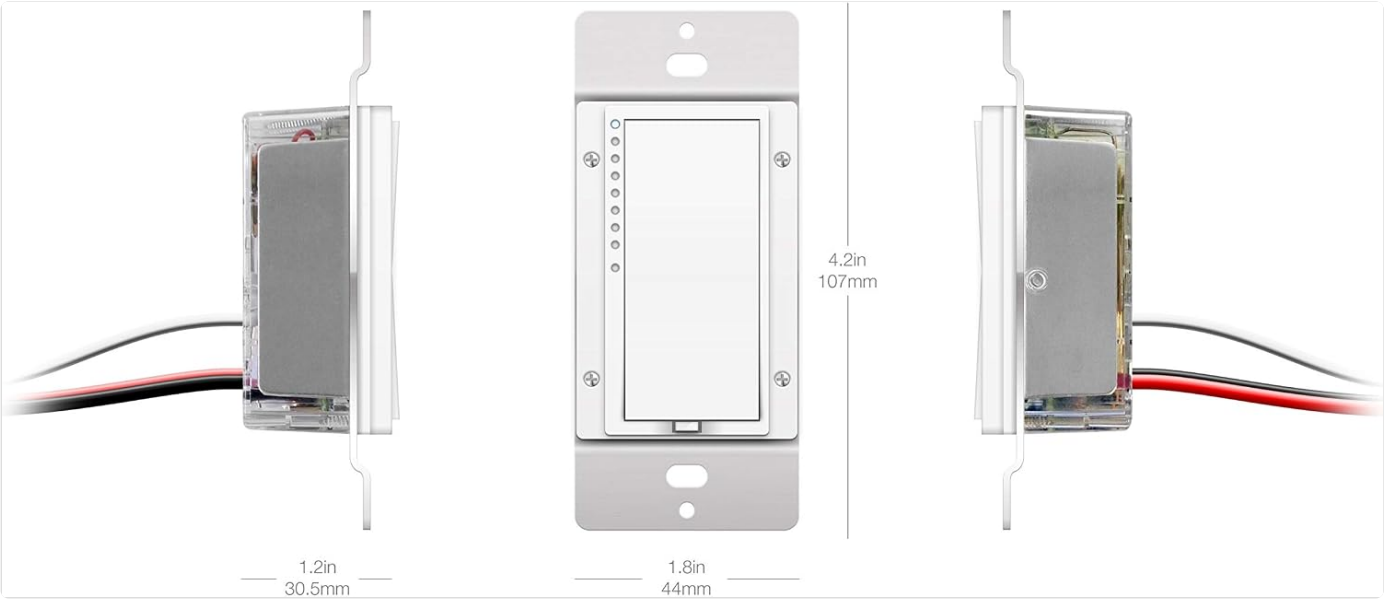


Image: Dimensional drawing of the Insteon Dimmer Switch. This image provides precise measurements for the length, width, and depth of the switch.

WARRANTY AND SUPPORT

Warranty Information

The Insteon Smart Dimmer Wall Switch 2477D comes with a **2-Year Manufacturer's Warranty**. Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please visit the official Insteon website or contact Insteon customer support. Refer to the Quick Start Guide included in your package for specific contact details or support resources.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question