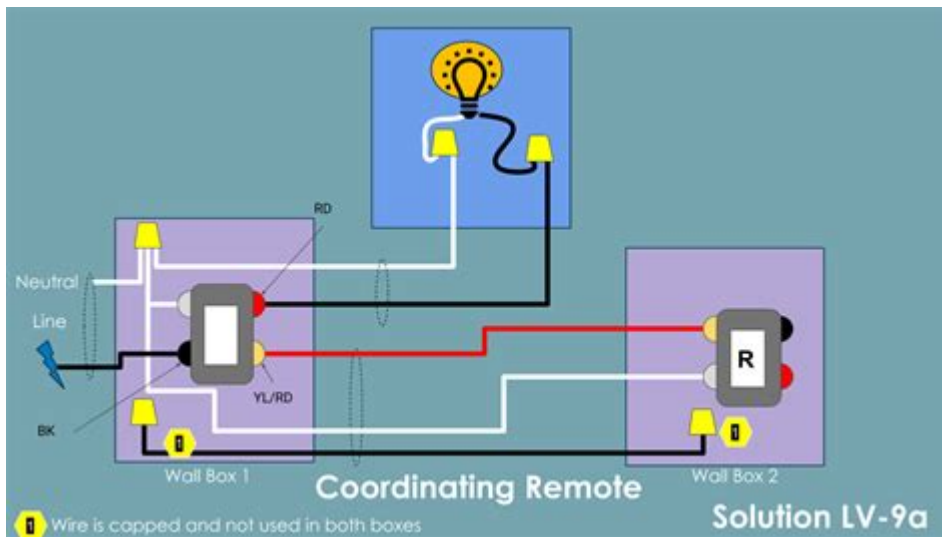


# Leviton Smart Switch 3 Way Wiring Diagram



Leviton Smart Switch 3 Way Wiring Diagram is crucial for homeowners seeking to upgrade their lighting control systems. With the advent of smart home technology, replacing traditional switches with smart switches can significantly enhance convenience and efficiency. This article will provide a comprehensive guide on how to wire a Leviton smart switch in a three-way configuration, where two switches control a single light fixture from different locations.

## Understanding Three-Way Switches

Three-way switches are essential for controlling lights from two different locations. Commonly found in hallways, staircases, and large rooms, these switches allow for more flexible lighting control. The wiring for three-way switches differs from standard single-pole switches, which is why understanding the configuration is critical.

## Components Needed

Before diving into the wiring diagram, it is essential to gather all necessary components:

1. Leviton Smart Switch: Ensure you have the compatible model designed for three-way applications.
2. Second Switch: This can be another smart switch or a conventional three-way switch.
3. Wire Strippers: For preparing the wires.
4. Screwdriver: To secure connections.
5. Voltage Tester: For safety, ensure the power is off before starting any

wiring.

6. Electrical Tape: To insulate connections where necessary.

7. Wire Nuts: For connecting wires securely.

## Safety Precautions

Wiring smart switches involves handling electrical components, which can be hazardous. Follow these safety precautions:

- Turn Off Power: Always turn off the circuit breaker before starting work.
- Use a Voltage Tester: Confirm that the power is off at the switch locations.
- Consult Local Codes: Ensure your installation complies with local electrical codes and regulations.
- Seek Professional Help: If you are unsure about any step, consider hiring a licensed electrician.

## Wiring Diagram Overview

Understanding the wiring diagram for a Leviton smart switch in a three-way setup involves recognizing the roles of different wires. The following are the wire connections involved:

- Line (Hot) Wire: The incoming power source.
- Load Wire: The wire that leads to the light fixture.
- Traveler Wires: Two wires that connect the two switches.
- Neutral Wire: Required for smart switches to function properly.
- Ground Wire: For safety, connecting all switches and the light fixture.

## Basic Wiring Configuration

Here is a simplified version of the wiring setup for a Leviton smart switch in a three-way configuration:

1. Power Source: The power source typically comes into one switch location.
2. First Switch (Smart Switch):
  - Connect the Line Wire to the Black Terminal.
  - Connect the Neutral Wire to the White Terminal.
  - Connect the Traveler Wires to the Traveler Terminals.
  - Connect the Ground Wire to the Green Ground Terminal.
3. Second Switch (Conventional or Smart Switch):
  - Connect the Traveler Wires to the corresponding terminals.
  - Connect the Load Wire that leads to the light fixture to the Common Terminal.

- Connect the Neutral Wire (if required) to the White Terminal.
- Connect the Ground Wire to the Green Ground Terminal.

#### 4. Light Fixture:

- Connect the Load Wire (from the second switch) to the light fixture's hot terminal.
- Connect the Neutral Wire from the power source to the fixture's neutral terminal.
- Connect the Ground Wire to the fixture's ground terminal.

## Step-by-Step Wiring Instructions

Now that you have a basic understanding of the wiring configuration, let's break it down into detailed steps.

### Step 1: Power Off the Circuit

Ensure the power is turned off at the circuit breaker. Use a voltage tester to confirm there is no power at the switch locations.

### Step 2: Remove Existing Switches

Carefully remove the faceplate and screws from the existing switches. Gently pull the switches from the wall box without damaging the wires.

### Step 3: Identify Wires

Take note of the existing wiring connections. Label them if necessary. Typically, you will find:

- A hot wire (black)
- A neutral wire (white)
- Two traveler wires (typically red and black)
- A ground wire (bare or green)

### Step 4: Wiring the Leviton Smart Switch

1. Connect the Line Wire: Attach the incoming hot wire to the black terminal on the smart switch.
2. Attach the Neutral Wire: Connect the neutral wire to the smart switch's white terminal.

3. Traveler Wires: Connect the traveler wires to the designated traveler terminals on the smart switch.
4. Ground Connection: Secure the ground wire to the green ground terminal.

## **Step 5: Wiring the Second Switch**

1. Traveler Connections: Connect the traveler wires from the smart switch to the corresponding terminals on the second switch.
2. Load Wire: Attach the load wire (that goes to the light fixture) to the common terminal.
3. Neutral and Ground: If using a smart switch, connect the neutral wire and ground wire as needed.

## **Step 6: Connect Light Fixture Wires**

1. Load Wire to Fixture: Connect the load wire from the second switch to the light fixture's hot terminal.
2. Neutral Connection: Connect the neutral wire from the power source to the fixture's neutral terminal.
3. Ground Wire: Connect the ground wire to the fixture's ground terminal.

## **Step 7: Finalize the Installation**

- Carefully tuck the wires back into the wall box.
- Secure the switches with screws.
- Install the wall plates.

## **Testing the Setup**

Once everything is wired correctly, it's time to turn the power back on at the circuit breaker. Test the switches to ensure they operate the light fixture correctly from both locations. If the installation includes a smart switch, set up the corresponding app on your smartphone for remote control capabilities.

## **Troubleshooting Common Issues**

If the lights do not operate as expected, consider the following troubleshooting tips:

1. Check Connections: Ensure all wire connections are secure and correctly

positioned.

2. Verify Power: Make sure power is restored and check the circuit breaker.
3. Test Switches Individually: Disconnect the second switch and test the smart switch alone.
4. Consult the Manual: Refer to the Leviton installation manual for specific troubleshooting steps.

## Conclusion

A Leviton Smart Switch 3 Way Wiring Diagram is a valuable resource for anyone looking to enhance their home's lighting control. By following the guidelines and steps outlined in this article, homeowners can successfully install a smart switch that allows for greater flexibility and convenience in managing their lighting. Whether you are an experienced DIYer or a novice, understanding the wiring configuration is essential for a successful installation. Always prioritize safety and consider consulting with a professional if you encounter any challenges. With the right approach, smart switches can transform your living space into a more modern and efficient environment.

## Frequently Asked Questions

### **What is a Leviton smart switch and how does it work in a 3-way configuration?**

A Leviton smart switch is a device that allows you to control your lights remotely via a smartphone app or voice assistants. In a 3-way configuration, it enables control from two different locations by using a smart switch and a companion switch.

### **What are the basic wiring requirements for installing a Leviton smart switch in a 3-way setup?**

To install a Leviton smart switch in a 3-way setup, you need to connect the line (power) wire, load (light) wire, traveler wires between the switches, and a neutral wire. Ensure you follow the provided wiring diagram specific to the model.

### **Can I use a standard 3-way switch with a Leviton smart switch?**

No, you cannot use a standard 3-way switch with a Leviton smart switch. You must use a Leviton companion switch that is compatible with the smart switch to ensure proper functionality.

## What tools do I need to wire a Leviton smart switch in a 3-way configuration?

You will need basic tools such as a screwdriver, wire stripper, voltage tester, and pliers. Additionally, having electrical tape and a wire connector kit can be helpful during installation.

## Are there any safety tips to consider when wiring a Leviton smart switch in a 3-way setup?

Yes, always turn off the power at the circuit breaker before starting any wiring work. Use a voltage tester to confirm that the wires are not live, and ensure that all connections are secure and properly insulated to prevent electrical hazards.

Find other PDF article:

<https://soc.up.edu.ph/44-slide/Book?dataid=IjN30-4231&title=objection-cheat-sheet-mock-trial.pdf>

## Leviton Smart Switch 3 Way Wiring Diagram

### **Leviton | Switches, Dimmers, Outlets & Lighting Controls**

Leviton offers a wide range of lighting controls, wiring devices and networking to meet the needs of today's residential, commercial and industrial customers.

### **Products - Leviton**

All Products Leviton products and solutions for Residential, Commercial, Industrial and Networking applications Residential AFCI Outlets/Receptacles AFCI Circuit Breakers Dual ...

Leviton Lighting Canada - viscor.com

Leviton Lighting Canada (LLC) offers a wide range of specialty lighting solutions, representing four distinct lighting brands which are Birchwood, ConTech, Intense (incl. V-Rail) and Viscor (incl. ...

*Smart Light Switches, Plugs and More | Decora Smart - Leviton*

Does a smart switch or smart dimmer connect with popular voice assistants? Yes, with Leviton you can use your voice for control without lifting a finger. Works with Google Assistant, ...

### **Viscor Lighting | Premium and Specialty Lighting**

A Specialty Lighting Solutions manufacturer for over 70 years, learn more about Viscor's portfolio of award-winning, sustainable lighting products

*My Leviton*

Manage and control your Leviton smart home devices with the My Leviton app.

### **Home Solutions - Leviton**

The Leviton Anywhere Companions install in seconds and provide simple, wire-free, multi-location

lighting control when paired with a Decora Smart 2nd Gen dimmer, switch or smart plug.

### **Residential Light Switches | Light Switch | Leviton**

Leviton offers Residential Switches in a variety of models to meet all of your household needs. Our switches are easy to install and are constructed for a long service life to provide safety, ...

#### Leviton Lighting Canada

Leviton Lighting Canada (LLC) offers a wide range of specialty lighting solutions, representing four distinct lighting brands which are Birchwood, ConTech, Intense (incl. V-Rail) and Viscor (incl. ...

#### Locations - Leviton

Leviton Lighting & Controls (Tualatin Office) 10385 SW Avery Street Tualatin, Oregon 97062 Phone: 800.736.6682 Fax: 503.404.5594

### **Leviton | Switches, Dimmers, Outlets & Lighting Controls**

Leviton offers a wide range of lighting controls, wiring devices and networking to meet the needs of today's residential, commercial and industrial customers.

#### Products - Leviton

All Products Leviton products and solutions for Residential, Commercial, Industrial and Networking applications Residential AFCI Outlets/Receptacles AFCI Circuit Breakers Dual ...

### **Leviton Lighting Canada - viscor.com**

Leviton Lighting Canada (LLC) offers a wide range of specialty lighting solutions, representing four distinct lighting brands which are Birchwood, ConTech, Intense (incl. V-Rail) and Viscor (incl. ...

### **Smart Light Switches, Plugs and More | Decora Smart - Leviton**

Does a smart switch or smart dimmer connect with popular voice assistants? Yes, with Leviton you can use your voice for control without lifting a finger. Works with Google Assistant, ...

#### *Viscor Lighting | Premium and Specialty Lighting*

A Specialty Lighting Solutions manufacturer for over 70 years, learn more about Viscor's portfolio of award-winning, sustainable lighting products

#### *My Leviton*

Manage and control your Leviton smart home devices with the My Leviton app.

### **Home Solutions - Leviton**

The Leviton Anywhere Companions install in seconds and provide simple, wire-free, multi-location lighting control when paired with a Decora Smart 2nd Gen dimmer, switch or smart plug.

### **Residential Light Switches | Light Switch | Leviton**

Leviton offers Residential Switches in a variety of models to meet all of your household needs. Our switches are easy to install and are constructed for a long service life to provide safety, ...

#### *Leviton Lighting Canada*

Leviton Lighting Canada (LLC) offers a wide range of specialty lighting solutions, representing four distinct lighting brands which are Birchwood, ConTech, Intense (incl. V-Rail) and Viscor (incl. ...

#### *Locations - Leviton*

Leviton Lighting & Controls (Tualatin Office) 10385 SW Avery Street Tualatin, Oregon 97062 Phone:

800.736.6682 Fax: 503.404.5594

Discover how to easily set up your Leviton smart switch with our 3 way wiring diagram. Get step-by-step instructions and expert tips. Learn more now!

[Back to Home](#)