

How to connect a detector device to a switch



AI Overview

To connect a switch to a motion or light detector, you need to safely wire the detector to the power source, the switch, and the light fixture, following proper electrical codes.

Safety First Before starting, turn off the power at the breaker box to prevent electric shock. Use a voltage tester to confirm that the circuit is de-energized. Wear safety gloves and goggles for added protection.

Tools and Materials Screwdriver and nut driver Wire stripper/cutter Wire nuts or connectors Electrical tape Motion or light detector switch Light fixture

Step-by-Step Wiring Process

Remove the Existing Switch Unscrew the cover plate and the switch from the wall box. Disconnect the wires by loosening the terminal screws or removing wire nuts.

Identify Wires Typically, you will have: Black (hot) wire from the power source White (neutral) wire from the light fixture Green or bare wire for ground Some detectors may have a red wire for traveler connections in multi-way setups.

Connect the Detector Switch Connect the black wire from the detector to the black (hot) wire from the power source. Connect the white wire from the detector to the white (neutral) wire from the light fixture. Connect the green or bare wire to the ground wire in the box. If using a two-way switch setup, connect the red and black traveler wires between the two switches and the detector as per the wiring diagram.

Secure the Connections Use wire nuts to secure all connections and wrap them with electrical tape for extra safety. Carefully tuck the wires into the wall box.

Mount the Detector Switch Screw the detector switch into the wall box and replace the cover plate.

Test the Installation Turn the power back on at the breaker. Test the detector by moving in front of it or covering/uncovering the light sensor. The light should turn on when motion is detected or when the sensor is triggered, and turn off automatically after...

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Motion Sensor Wiring Schematic » Wiring Diagram

Once you have determined the type of wiring diagram you need, the next step is to connect the wires. Most motion sensors come with a wiring diagram that includes instructions on how

DI-000-ODS06-02A

Leviton Cat. No. ODS06, Designer Wall Switch Occupancy Sensor, is designed to detect motion from a heat-emitting source (such as a person entering a room) within its field-of-view (monitored space)

How to Wire a 2 Way Motion Sensor Switch: Step-by-Step Wiring

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Contact Us

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