

How to wire a four-channel optocoupler relay module



Overview

Learn how to connect 4-channel relay module to Arduino, how to program Arduino to control 4-channel relay module step by step. The detail instruction, code, wiring diagram, video tutorial, line-by-line code explanation are provided to help you quickly get started with. This module allows microcontrollers to control high-voltage devices (AC or DC) using opto-isolated relays. Each channel can be triggered by either HIGH or LOW logic, selectable via jumpers. Set to L for LOW trigger (default). However, there is a simpler way is to use a 4-channel relay module. A 4-channel. An Optocoupler, is an electronic component that interconnects two separate electrical circuits by means of a light sensitive optical interface. There is a light emitting diode with a phototransistor inside the optocouplers, both of them are isolated from the external environment of the. In the following post I have explained how to drive a relay by using an isolated method, or through an optocoupler device. We will learn three methods, first method is by connecting relay directly with the optocoupler output pins, second method is by using external PNP transistors, and third method. The four-channel relay module contains four 5V relays and the associated switching and isolating components, which makes interfacing with a microcontroller or sensor easy with minimum components and connections.



Article Content

Jun 13, 2026

4-Channel Relay Driver Circuit and PCB Design

Connecting wire Relay Driver Circuit Explanation: In this 4-Channel Relay Driver Circuit we

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Relay Module Optocoupler: Schematic and Working Explained

This article shares the Relay Module Optocoupler Schematic and Working principle. Cheap DIY relay module project

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Schematic, Amazon Relay Module: 1 Channel,

Schematic, Amazon Relay Module: 1 Channel, Optocoupler Isolation Hi/Low Trigger A ham

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How to Use an Optocoupler to Pass Signals Between Controllers at ...

How to Use an Optocoupler to Pass Signals Between Controllers at Different Voltages: This tutorial makes use of the 4N25

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How to Use 1 Channel Relay module with Optocoupler: Examples,

The 1 Channel Relay Module with Optocoupler, manufactured by Songle (Part ID: SRD-05VDC-SL-C), is a versatile electronic

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Diy 4 Channel Relay Module

This is a 5V 4-channel relay interface board, and each channel needs a 15-20mA driver current. It can be used to

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Relay Module Optocoupler: Schematic and Working Explained

Table of Contents Relay Module Optocoupler Schematic 4-Channel Relay Module Board | 5V Relay Module with

Dec 27, 2025

User's Guide: 12V 4-Channel Relay Module with Optocoupler

This module allows microcontrollers to control high-voltage devices (AC or DC) using opto-isolated relays. Each

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4 Channel 5V Relay Module with Optocoupler

Package Contents: 1 x 4 Channel 5V Relay Module with Optocoupler Elevate your projects with our robust, reliable, and easy-to-use

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Interfacing PC817 4-Channel Optocoupler Module with

Learn How to interface a PC817 4-Channel Optocoupler Module with Arduino. using PC817

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Interfacing PC817 4-Channel Optocoupler Module with Arduino

The following circuit shows how you should connect Arduino to PC817 module. Connect wires accordingly.

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4 Channel 5V Relay Module with Optocoupler

This 4 Channel 5V Relay Module with Optocoupler meet the safety standard as control areas and load

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How to Connect a Relay through an Opto-Coupler

The following concepts show how a relay driver can be configured with an optocoupler using transistors. As shown in the following

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4-Channel Relay Arduino: Multi-Device Control

Master 4-Channel Relay Arduino: control multiple appliances, understand optocoupler isolation, array-based programming &

Oct 30, 2025

In-Depth: Interface Two Channel Relay Module with Arduino

Learn to interface two channel relay module with Arduino along with relay working, hardware overview, power

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How to Use 4 channel relay module 5V JD-VCC: Pinouts, Specs, and ...

The 4 Channel Relay Module 5V JD-VCC is an electronic component designed to control up to four independent devices using low

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How to Use Relay Module with Arduino (1, 2, 4, 8 Channel)

In this tutorial we explain how relays work, cover all channel variants (1, 2, 4, 8 channel), explain the optocoupler

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How to Use One Channel Relay with Optocoupler: Pinouts, Specs,

Learn how to use the One Channel Relay with Optocoupler with detailed documentation, including pinouts, usage guides, and

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4 Channel 5V Relay Module with Optocoupler

Description 4 Channel 5V Relay Module with Optocoupler A 4x5V Opto-Isolated Relay Module is a board

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5V Four-Channel Relay Module

In this diagram, four separate loads (represented by lightbulbs) have been connected to the

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How to Use 4 Channel Relay Module: Examples,

Learn how to use the 4 Channel Relay Module with detailed documentation, including pinouts, usage

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5V Four-Channel Relay Module

The four-channel relay module contains four 5V relays and the associated switching and

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How to Use optocoupler pc817 4 channel: Examples, Pinouts, and Specs

Learn how to use the optocoupler pc817 4 channel with detailed documentation, including pinouts, usage guides, and example

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Interfacing 5V 4-Channel Relay Module with Arduino

In this tutorial learn how to interface 5V 4-Channel HL-52S Relay Module with Arduino along with relay working, hardware overview,

Apr 07, 2026

4-Channel Relay Module: Wiring & Projects Guide | Zbotic

Complete guide to 4-channel relay modules. Safe wiring for 230V AC, optoisolation, Arduino code, and home

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Mastering the 4 Channel Relay Module with Optocoupler: A Hands-On ...

This guide reviews the 4 channel relay module with optocoupler, explaining its galvanic isolation benefits, wiring safety for AC loads,

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Arduino Tutorial: 2-Channel Optocoupler Relay Module

Weight: 30g PCB Color: Black Four fixed screw holes around the board, hole diameter 3.1mm, for easy

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4 Channel 5V Relay Module with Optocoupler

The 4 Channel 5V Relay Module with Optocoupler is a versatile solution for controlling up to four high

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12V 8-Channel Relay Module with Optocoupler - Support

The 12V 8-Channel Relay Module with Optocoupler is designed to control multiple high-voltage devices using low

Contact Us

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