

Wiring between relay and photosensitive module



Article Overview

A photosensitive relay module can be wired by connecting its VCC to 3.3V/5V, GND to ground, and the output pin to a microcontroller or relay input, with optional threshold adjustment via a potentiometer.

Pinout and Connections

Most photosensitive relay modules have three pins:

- VCC (Power): Connect to a 3.3V or 5V DC supply depending on your module specifications .
- GND (Ground): Connect to the ground of your power source or microcontroller .
- OUT (Signal): Provides either an analog voltage proportional to light intensity or a digital HIGH/LOW signal depending on the module configuration . If your module includes a potentiometer, you can adjust it to set the light intensity threshold for the digital output, effectively controlling when the relay switches on or off .

Wiring to a Microcontroller

- Analog Output Mode:
- Connect the OUT pin to an analog input pin on your microcontroller (e.g., A0 on Arduino).
- Use `analogRead()` to measure light intensity and implement logic to trigger the relay when a certain threshold is reached .

Article Content

Photoresistor Interfacing with Arduino for Light Measurement

This LDR module provides an analog output. Types of Photoresistors According to the features, the photoresistors are of three types:

Photoresistor Module — SunFounder Ultimate Sensor Kit documentation

Photoresistor Module Introduction A photoresistor module is a device that can detect the intensity of light in the environment. It can

Lesson 11: Photoresistor Module

In this lesson, you will learn how to use a photoresistance sensor with an ESP32 Development Board to measure light intensity. We'll

Relay Module Arduino: Complete Switching Guide

Understanding the principles of relay operation, proper wiring techniques, and safety considerations transforms this simple

Amazon : Light Sensor Relay

5V Photosensitive Relay Module with LDR Photoresistor Sensor for Light Detection, Smart Home Automation DIY Projects Add to cart

How to Use Photoresistor Module: Examples, Pinouts, and Specs

Learn how to use the Photoresistor Module with detailed documentation, including pinouts, usage guides, and example projects.

PhotoMOS Relay Schematic and Wiring Diagrams

Notes: 1. E1: Power source at input side; VIN: Input voltage; IF: LED forward current; IIN: Input current; VL: Load voltage; IL: Load

Photo Relay Circuit

Learn about photo relay circuits with working principles, circuit diagrams, and parts list for practical applications in

Lesson 11: Photoresistor Module

Lesson 11: Photoresistor Module In this lesson, you will learn how to use a photoresistance sensor with an ESP32 Development

Photoelectric Sensor Wiring, Setup, and Troubleshooting

First, we will show you how to wire the Through-Beam photoelectric sensor emitter. Through-Beam sensors have two separate

How to Wire a Relay (Circuit, Connection, Diagram)

In this article, I will show you how to wire a relay, don't worry; it's not as hard as it may seem. Quick Summary; A relay

How to Use Relay with optocoupler: Examples, Pinouts, and Specs

Learn how to use the Relay with optocoupler with detailed documentation, including pinouts, usage guides, and example projects.

Relay Module Arduino: Complete Switching Guide

Relay Module Arduino complete guide: control AC/DC loads safely, JD-VCC jumper demystified, wiring examples & common

Light Magic: Using LM393 and Arduino UNO

Automatic light control using a photosensitive LDR sensor module and Arduino. Find this and other hardware projects on Hackster.io.

Contact Us

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