

Practical DIY project on an optical coupler



Overview

This repository contains the documentation and hardware implementation of a simple optocoupler circuit constructed using an IR LED and an NPN phototransistor. Making a DIY Optocoupler: When I was working on my garage door opener, I had trouble controlling a 12V relay from a 3.3V NodeMCU board and at the time, I did not have any optocouplers available. While looking at what I could do, I. Last Updated on March 15, 2025 by Swagatam 51 Comments OPTOCOUPPLERS OR OPTOISOLATORS are devices that enable efficient transmission of DC signal and other data across two circuit stages, and also simultaneously maintain an excellent level of electrical isolation between them. Optocouplers are very useful when you need to isolate different sections of a circuit, for example in power. In this project, we will show how to connect an optocoupler chip to a circuit. An optocoupler or optoisolator chip is a chip that allows for electrical isolation between the input of the circuit and the output of the circuit.



Article Content

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Optocoupler Tutorial and Optocoupler Application

What is an Optocoupler? An optocoupler (also called an opto-isolator, photo-coupler, or optical isolator) is a solid-state semiconductor device

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Fiber Optic Couplers Information

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Fiber Optical Coupler: Design, Working, and Its Types

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I Introduction This article focuses on the electronic component known as the Optocoupler. (For the fiber-optic networking component, please

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Fiber connections such as connectors and splices and the associated intrinsic and extrinsic losses are described. The construction of couplers and branches, including the associated

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