

Working principle of controllable optocouplers

Ordering information

NO.	1	2	3	4	5	6
Model	SP12M1	SP24M2	SP48M4	SP6M1	SP12M2	SP24M4
Product name	Patch Panel	Patch Panel	Patch Panel	Patch Panel	Patch Panel	Patch Panel
Illustration						
HU	1	2	4	1	2	4
Maximum number of cores	144	288	576	144	288	576
Product size (including modules and adapters)	482.6*455*44 mm	482.6*455*88.1 mm	482.6*455*177 mm	482.6*455*44 mm	482.6*455*88.1 mm	482.6*455*177 mm
Standard color code	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005
Inventory	√	√	√	√	√	√

Overview

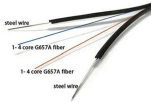
An optocoupler moves signals between two circuits using light instead of electricity. That way, the input and output stay electrically separate; there is no direct connection, just light doing the job. In this guide, you'll learn how they work and how you can use one in your own projects. It uses light to do the job, which helps keep things safe. What is an Optocoupler?

Optocouplers are integrated electronic components. An optocoupler consists of a Transmitter as an IR LED and a Receiver as a photosensitive component. when light is emitted by an LED and that light hits the photosensor (Photodiode, Phototransistor, PhotoTriac) then the photosensor starts to flow the current.

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An optocoupler uses light to transfer signals between circuits, keeping them electrically isolated. This protects sensitive components from high-voltage spikes and noise. It's widely used in ...



An optocoupler uses light to transfer signals from one circuit over to another. This guide shows you how they work and how to use them.



In the following sections, we will explore the working principles of optocouplers in more detail, discuss their different types, and examine their specific applications in various industries.



This article provides a thorough exploration of optocouplers (Optoisolator / Photocoupler), including their construction, working principles, advantages, disadvantages, and ...



These components are called optocouplers or optoisolators or simply optos, and they perform the crucial function of passing signals between isolated sections of circuitry. They use light to ...



Switching and Control: Optocouplers are commonly used in switching applications to control power transistors, relays, or other switching devices. The input side (LED) can be driven by a low-power ...



In this article we'll look at how they are used to control circuits, how they work and also how to design some simple optocoupler circuits to show the working principle.



In order to design a functionally robust and reliable application with optocouplers, it is essential to understand not only the device's main parameters and parasitic elements, but also their tolerances ...



Learn how optocouplers ensure electrical isolation and signal transfer in circuits. This guide covers their components, working principles, and ...



Learn about their basics, types, working principles, applications, and testing methods. Discover how optocouplers provide crucial isolation in electronic circuits.



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Contact Us

For more information, pricing, or custom energy solutions, please contact us:

Website: <https://gdroofing.co.za>

Email: sales@gdroofing.co.za

Phone: +27 72 418 9365

Address: 22 Electron Avenue, Isando, Johannesburg, 1600, South Africa

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