

8-channel switch module in the distribution box



AI Overview

An 8-channel switch module allows control or distribution of up to eight separate electrical circuits from a single module, commonly used for lighting, fans, or other devices in automation and electrical systems.

Overview An 8-channel switch module is an electrical or electronic device that enables the control of eight independent circuits within a distribution box. These modules can be relay-based, passive, or integrated with control systems, depending on the application. They are typically mounted on a DIN rail inside a wall or metal enclosure for organized and safe installation.

Types and Applications

Relay-Based Modules Each channel contains a relay that can switch high-current loads using a low-voltage control signal. Suitable for controlling lights, motors, or other devices from microcontrollers like Arduino or Raspberry Pi. Features often include LED indicators, screw terminals for easy wiring, and optocouplers for input isolation. Example: Control4 DIN-Rail 8-Channel Relay Switch can control up to eight devices and integrates with home automation systems.

Lighting Control Modules Designed for non-dimmable lighting and fan switching. Supports both 120V and 220-240V applications. Each channel can handle incandescent loads up to 10A, fluorescent loads up to 5A, and 1/2 HP motor loads. Provides override inputs and local or remote control via software.

Passive Distribution Boxes These modules distribute power without active electronics. Example: EP9208-1035 EtherCAT Box provides eight outputs via M12 sockets, suitable for 24V DC or 48V DC loads up to 16A per channel. LEDs indicate channel status, and wiring is straightforward with no intermediate electronics.

Installation and Wiring

DIN Rail Mounting: Most 8-channel modules snap onto standard DIN rails for secure installation.

Screw Terminals: Provide easy access for connecting input and output...

Article Content

DIN-Rail 8-Channel Relay Switch

Use these Control4 DIN-Rail 8-Channel Relay Switch wiring diagrams along with the DIN-Rail 8-Channel Relay Switch Installation Guide (ctrl4.co/8chrelay-ig) to install DIN-Rail 8-Channel Relay Switches.

DC Power Distribution Module, Rocker Switch, Fused, Pluggable Top ...

DC Power Distribution Module, Rocker Switch, Fused, Pluggable Top Wiring Terminal Block, DIN Rail and Screw Mount (4 Channel)

8-Channel Relay Switch Data Sheet

C4-DIN-8RELSW-E The Control4 DIN-Rail 8-Channel Relay Switch controls up to eight high in-rush loads from one module in the Control4 system. Each channel supports a variety of load types,

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DC 8 Channel Toggle Switch Power Distribution Module, DIN Rail Mount

About this item Working voltage DC 3 to 32V. Maximum input current 30 Amps. 8 Channels output, each channel maximum output current 5 Amps (all channel total maximum output 30 Amps). Toggle switch

Evemodel 3V-24V DC Individual Toggle Switch Power

Evemodel 3V-24V DC Individual Toggle Switch Power Distribution Module 8 Channel evemodel-us (36650) 99.8% positive Seller's other items

Evemodel 3V-24V DC Individual Switches Power Distribution Module

Maximum power input: 24V DC 8.0A. Power input: standard 5.5mm 2.1mm female DC socket. (You need to prepare it by yourself is not included). One unit power distributon board with

DC 8 Channel Toggle Switch Power Distribution

Description 1, Working voltage DC 3 to 32V. Maximum input current 30 Amps. 8 Channels output, each channel maximum output current 5 Amps (all channel

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DIN-8SW8-I [Crestron Electronics, Inc.]

The module features eight isolated digital inputs, allowing standard momentary switches to trigger events with or without a control system. A single model supports both 120V and 220-240V applications.

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8-Chanel DC Switch Distribution Screw terminal block

Can't find the exact terminal block you need? Our product specialists are ready to assist you with technical support and tailored solutions. We respond quickly and

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PCB017 1 Unit 3V-24V DC Power Distribution 12

Features: Great for small models and really tight places!. 8 Channels or 12 Channels lighting connector. Includes 8A fuse and LED power indicator light. There are 8

Turck TBEN-S1-8DXP Distribution Box, 8 Digital Channels,

Compact Multiprotocol I/O Module for Ethernet, 8 Universal Digital Channels, Configurable as PNP Inputs or 2 A Outputs TBEN-S1-8DXP FEATURES • 4-pin • PROFINET device • 2x M8 • Integrated

Altronix Products

Power Distribution Module, 8 Fused Outputs up to 28VAC/VDC, Board Altronix PD8 power distribution module is designed to convert a single AC or DC input into

8-Chanel DC Switch Distribution Screwless terminal block

Use: Application: Suitable for battery/switching power supply, DC switching and channel expansion. The switch can completely cut off the load with 2 wires. Features:

Contact Us

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