



Product Details

Wiki & Learn

Reviews

Description

Description

The Single Pole Double Throw SPDT relay is quite useful in certain applications because it has one common terminal and 2 contacts which are great for selecting between two options.

Features

- High Switching Current:** The relay's coil is rated up to 5V and the contact is rated up to 30A (@250VAC, 30VDC)
- SPDT Relay:** The current output to different directions can be used to control two devices
- Normally closed relay:** The two contacts are closed when the coil is not energized
- Grove compatible interface:** The product ensures "Plug and Play" and could be versatile for various applications of Grove

Description

The SPDT Relay(30A) is a high-quality Single Pole Double Throw Relay(SPDT). The Relay consists of a coil, 1 common terminal, 1 normally closed(NC) terminal and one normally open(NO) terminal. When the coil of the relay is at rest (not energized), the common terminal and the normally closed terminal have continuity. When the coil is energized, the common terminal and the normally open terminal have continuity. This relay's coil is rated up to 5V and the contact is rated up to 30A (@250VAC, 30VDC). Use it to control AC appliances or high current DC devices.

Why do we want to use a relay and do we really need to? Anytime you want to switch on/off a device which draws more current or works with a high voltage, you'll need to use a relay. That is to say, the relay is "a high voltage or current switch controlled by low voltage". The coil of an SPDT relay that we most commonly use draws very little current (the Grove - Relaysupports 10A). Now, with this 30A relay, you can control much more high-current switch devices such as headlights, parking lights, horns, etc.

If you are interested in finding out more about the Relay, you can check our [Arduino Tutorial on How to Control High Voltage Devices with Relay Modules](#) and [Types of Relay - Which one should use?](#)

We have developed more than 400 Grove modules, covering a wide range of applications that can fulfil various needs. Click to explore the [Grove Sensor family](#) and get started to Grove your Idea. For all Grove users (especially beginners), we provide you guidance PDF documents. Please download and read through [Preface - Getting Started](#) and [Introduction to Grove](#) before your use of the product.

Note

Please exercise great care and safety precautions when working with mains voltages. If in doubt, contact a professional such as a licensed electrician for help.

Application

- Switching
- Electrical Heater
- Ventilator
- Air conditioning
- Refrigerating
- Automobile
- Household Appliance

Specification

Dimensions	20mm x20mm x8mm
Weight	G.W 37g
Battery	Exclude
Operating voltage	4.75V~5.25V
Operating current	185mA
Switching Voltage	250VAC/30VDC
Switching Current	30A
Pull-In Voltage(Max)	3.75VDC
Switch on Time(Max)	15ms
Release Time(Max)	10ms
Operating Ambient Temperature	-25~70°C

Part List

Grove - SPDT Relay(30A)	1
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Documents

- [Grove - SPDT Relay\(30A\) Eagle File](#)
- [SLA-05VDC-SL-C Datasheet](#)

ECCN/HTS



HSCODE	8538900000
USHSCODE	8471490000
UPC	841454107606
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Guess Your Like



Heelight Relay

SKU 114991391

\$14.9



Grove - 4-Channel SPDT Relay

SKU 103020133

\$12.75



Grove - 2-Channel SPDT Relay

SKU 103020132

\$9



Grove - Relay High current 5V/10A...

SKU 103020005

\$2.79

Grove - SPDT Relay(30A) - High Current and Normally closed

SKU 103020012

★★★★★ 2 Reviews

The Single Pole Double Throw SPDT relay is quite useful in certain applications because it has one common terminal and 2 contacts which are great for selecting between two options.

\$10.90 USD

10+: \$7.60

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☐ Seeed Studio Expansion Board Base for XIAO with Grove OLED - IIC, Uart, Analog/Digital

\$16.4

☐ Seeed Studio XIAO nRF52840 - Supports Arduino / CircuitPython- Bluetooth5.0 with Onboard Antenna

\$9.9

☐ Grove - WS2813 RGB LED Strip Waterproof - 60 LED/m - 1m

\$9.8

☐ Grove - OLED Yellow&Blue Display 0.96 (SSD1315) - SPI/IIC -3.3V/5V

\$5.5

Tags

RELAY ELECTROMECHANICAL RELAY SPDT

SWITCH GROVE DIGITAL

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