

WHADDA WPM464 4 Channel Solid State Relay Module User Manual

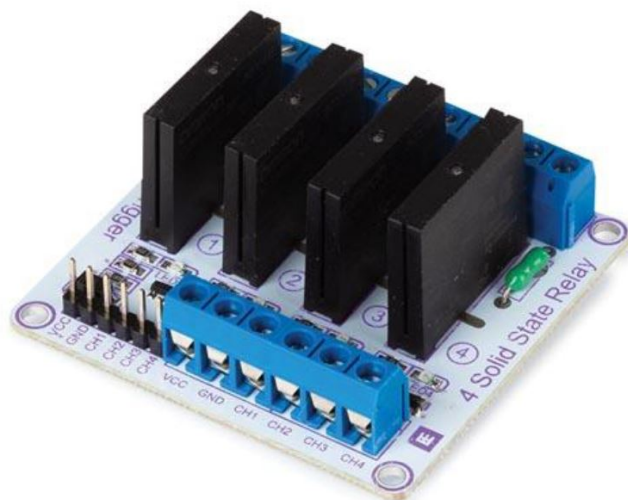
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WHADDA

WHADDA WPM464 4 Channel Solid State Relay Module



Introduction

To all residents of the European Union

Important environmental information about this product

This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.

If in doubt, contact your local waste disposal authorities.

Thank you for choosing Whadda! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, do not install or use it and contact your dealer.

Safety Instructions

- Read and understand this manual and all safety signs before using this appliance.
- For indoor use only.
- This device can be used by children aged from 8 years and above, and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the device in a safe way and understand the hazards involved. Children shall not play with the device. Cleaning and user maintenance shall not be made by children without supervision.

General Guidelines

- Refer to the Velleman® Service and Quality Warranty on the last pages of this manual.
- All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.
- Only use the device for its intended purpose. Using the device in an unauthorized way will void the warranty.
- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- Nor Velleman nv nor its dealers can be held responsible for any damage (extraordinary, incidental or indirect) – of any nature (financial, physical...) arising from the possession, use or failure of this product.
- Keep this manual for future reference.

What is Arduino®

Arduino® is an open-source prototyping platform based on easy-to-use hardware and software. Arduino® boards are able to read inputs – light-on sensor, a finger on a button or a Twitter message – and turn it into an output – activating of a motor, turning on an LED, or publishing something online. You can tell your board what to do by sending a set of instructions to the microcontroller on the board. To do so, you use the Arduino programming language (based on Wiring) and the Arduino® software IDE (based on Processing). Additional shields/modules/components are required for reading a twitter message or publishing online. Surf to www.arduino.cc for more information

Product overview

The Whadda 4-channel Solid State Relay (SSR) module can be used to quickly and efficiently switch AC loads on and off without using any moving parts (e.g. like a classic electromechanical relay). The SSR module uses a photometric to provide galvanic isolation between the logic level side and the AC load side. All four of the channels can be switched on by providing a HIGH logic level signal (3 – 5 V), and off by providing a LOW logic level signal (0 – 1,5 V) to its corresponding channel signal input.

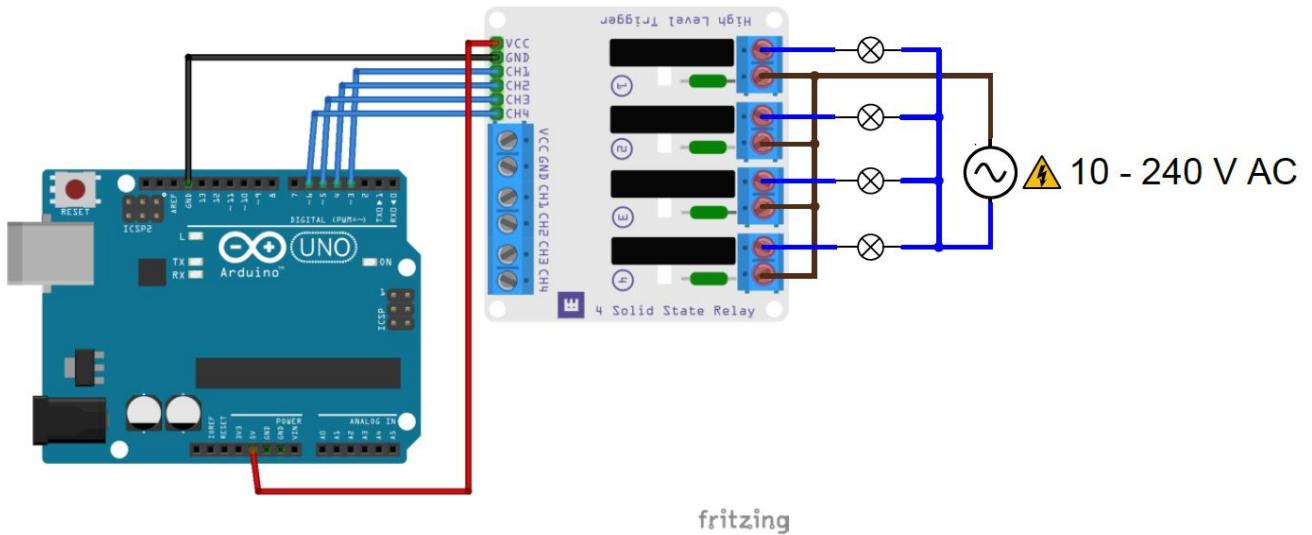
Note that this module can ONLY SWITCH AC CURRENTS, up to a maximum of 2 A, with a maximum voltage of 240 V AC. Trying to use this module to switch DC loads or exceeding the specified limits can damage the module and/or your connected devices!

Specifications

- Max. load voltage: 240 V AC
- Max. load current: 2 A
- Supply voltage: 5 V DC
- SSR working current: 12,5 mA
- SSR trigger voltage: 3,3 – 5,0 V DC
- SSR trigger current: 2 mA
- Weight: 36,8 g
- Dimensions (W x L x H): 55 x 57 x 24 mm

Wiring description

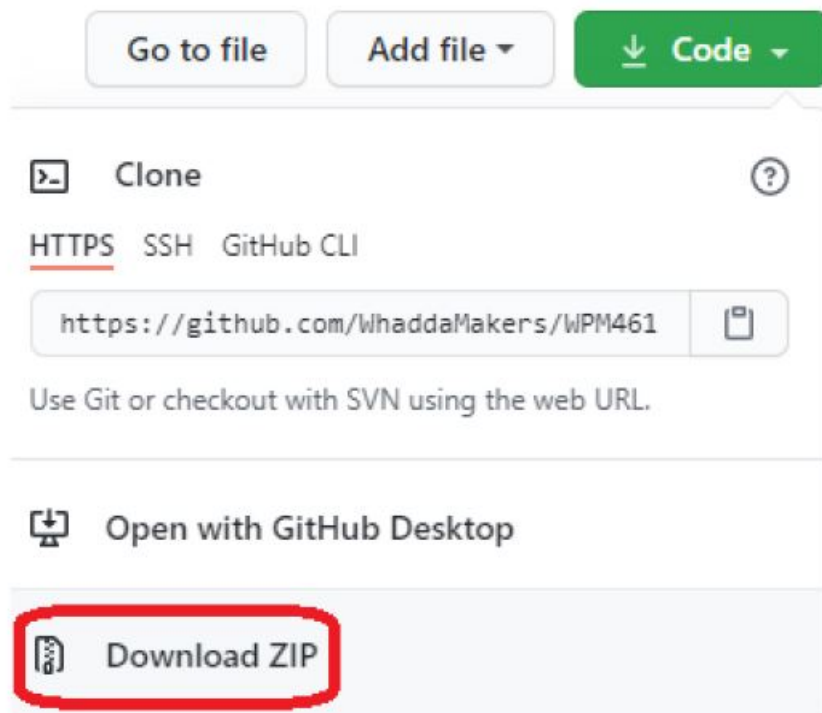
Pin	Name	Arduino® connection
VCC	Supply voltage (5 V DC)	5V
GND	Ground	GND
CH1	SSR channel 1 signal	Digital Pin (e.g. D3)
CH2	SSR channel 2 signal	Digital Pin (e.g. D4)
CH3	SSR channel 3 signal	Digital Pin (e.g. D5)
CH4	SSR channel 4 signal	Digital Pin (e.g. D6)
A1	SSR channel 1 AC voltage source	–
B1	SSR channel 1 Load	–
A2	SSR channel 2 AC voltage source	–
B2	SSR channel 2 Load	–
A3	SSR channel 3 AC voltage source	–
B3	SSR channel 3 Load	–
A4	SSR channel 4 AC voltage source	–
B4	SSR channel 4 Load	–



Example program


You can download the example Arduino® program by going to the official Whadda github page:
<https://github.com/WhaddaMakers/4-Channel-solid-state-relay-module>

1. Click the “Download ZIP” link in the “Code” menu:







2. Unzip the downloaded file, and browse to the example_code folder. Open the example Arduino® sketch (example_code.info) located in the folder.
3. Connect your Arduino compatible board, make sure the correct Board and connection port are set in the tools menu and hit Upload

Documents / Resources

	<p>WHADDA WPM464 4 Channel Solid State Relay Module [pdf] User Manual WPM464 4 Channel Solid State Relay Module, WPM464, 4 Channel Solid State Relay Module</p>
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References

-  [Whadda - Exciting Electronics](#)
-  [Arduino - Home](#)
-  [Arduino - Home](#)
-  [GitHub - WhaddaMakers/4-Channel-solid-state-relay-module: Example code for the Whadda 4 channel Solid State Relay \(SSR\) module \(WPM464\).](#)