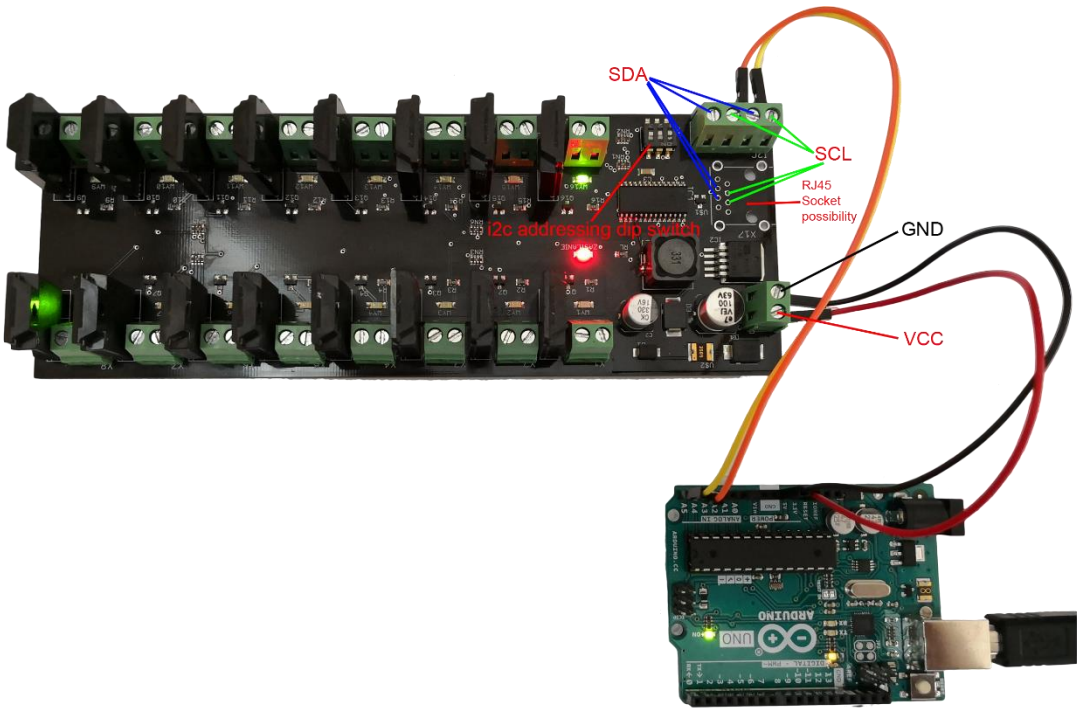
High quality 8A per channel, 16-channel relay board, i2c controlled for IOT.

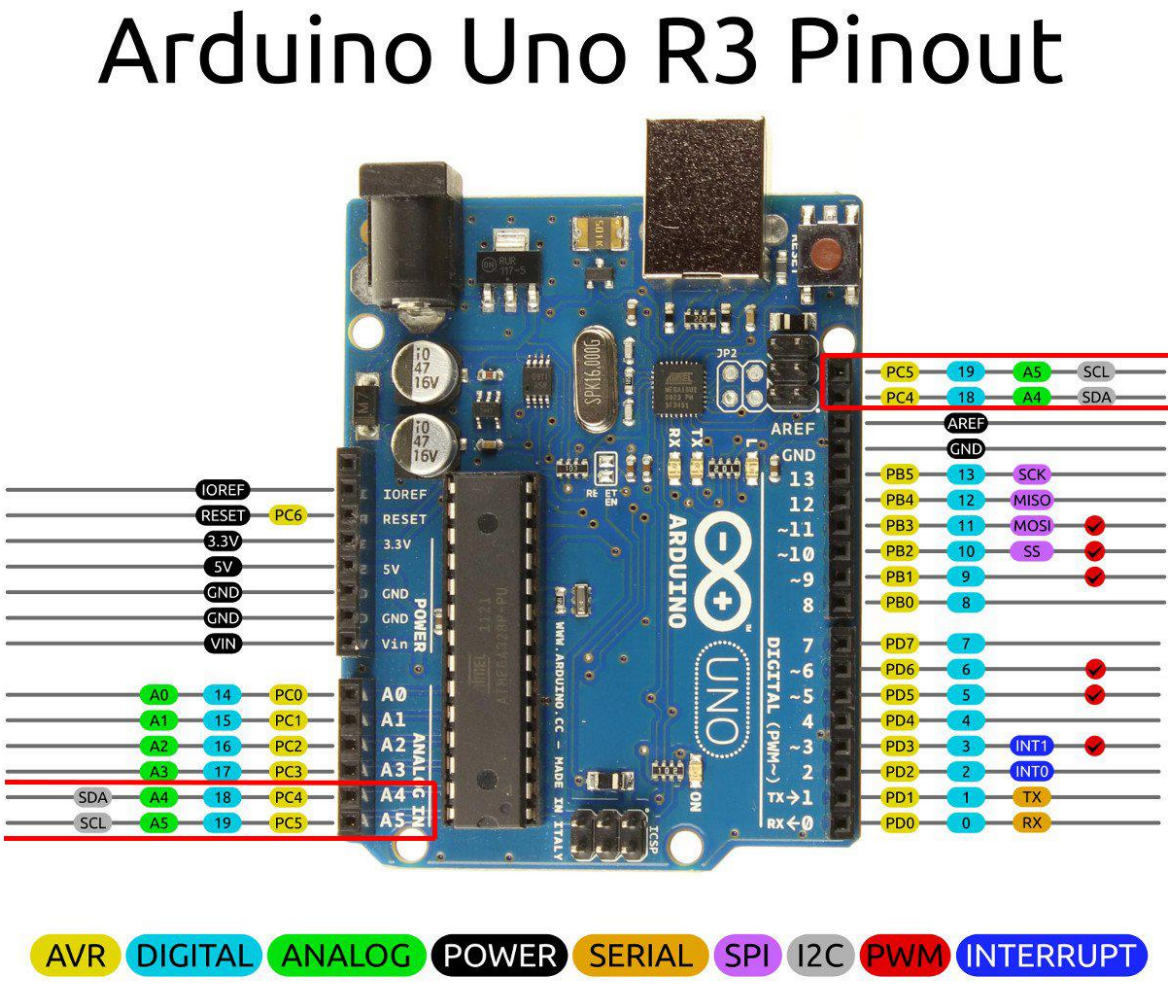
Product description:

- Operating Voltage: 5 - 24V - SIMPLE SWITCHER® Power Converter 150 kHz 3A Step-Down Voltage Regulator,
- For the boards without relays assembled:
  - Relays control current - 20mA
  - Relays control voltage - 5V
- PCB size: 190x70



Controlling with ARDUINO:

- Connect board to Arduino:
  - SDA to Arduino pin PC4
  - SCL to Arduino pin PC5



- Connect power supply to Arduino and to the board.

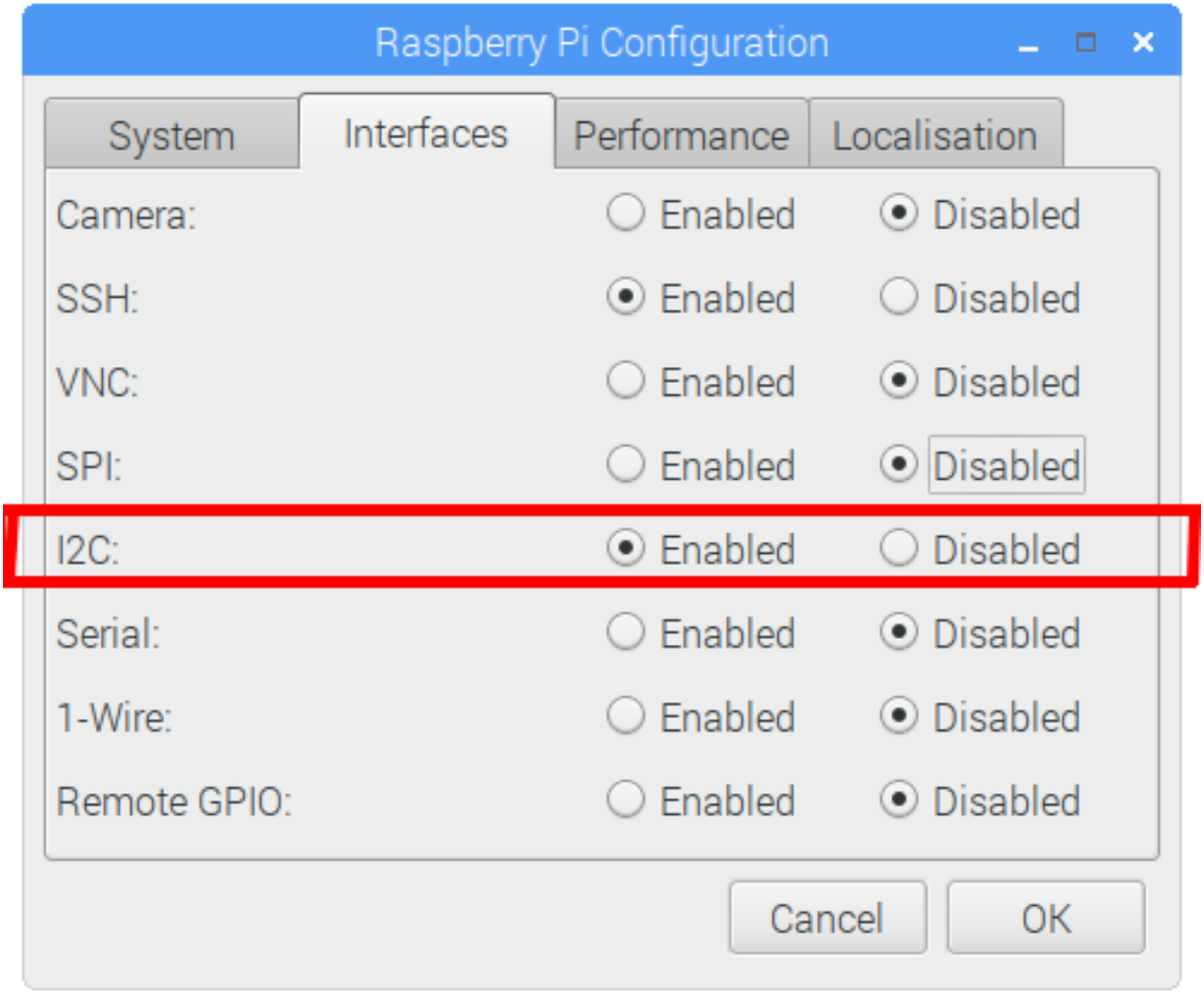
The relay board must be powered from the same power source as Arduino.

- use this example code: link

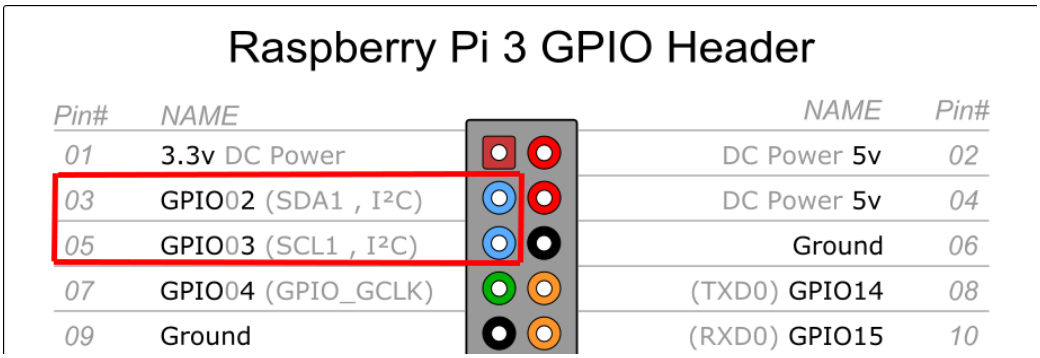
Controlling with RASPBERRY PI:

Example for Raspberry Pi 3 version (3B, 3B+)

- Turn on the i2c in Raspberry settings:



- Connect board to Raspberry:
  - SDA to Raspberry pin 3 - GPIO02
  - SCL to Raspberry pin 5 – GPIO03



- Connect power supply to Raspberry and to the board.

The relay board must be powered from the same power source as Raspberry.

Use ***i2cdetect -y -1*** command to check if the board is detected.

Now you can manualy control the board using commands:

i2cset -y 1 0x20 0x12 0x00 - where 0x20 is i2c board address, 0x12 is MCP port A address, 0x00 is port value (0b00000000 - set all outputs Off)

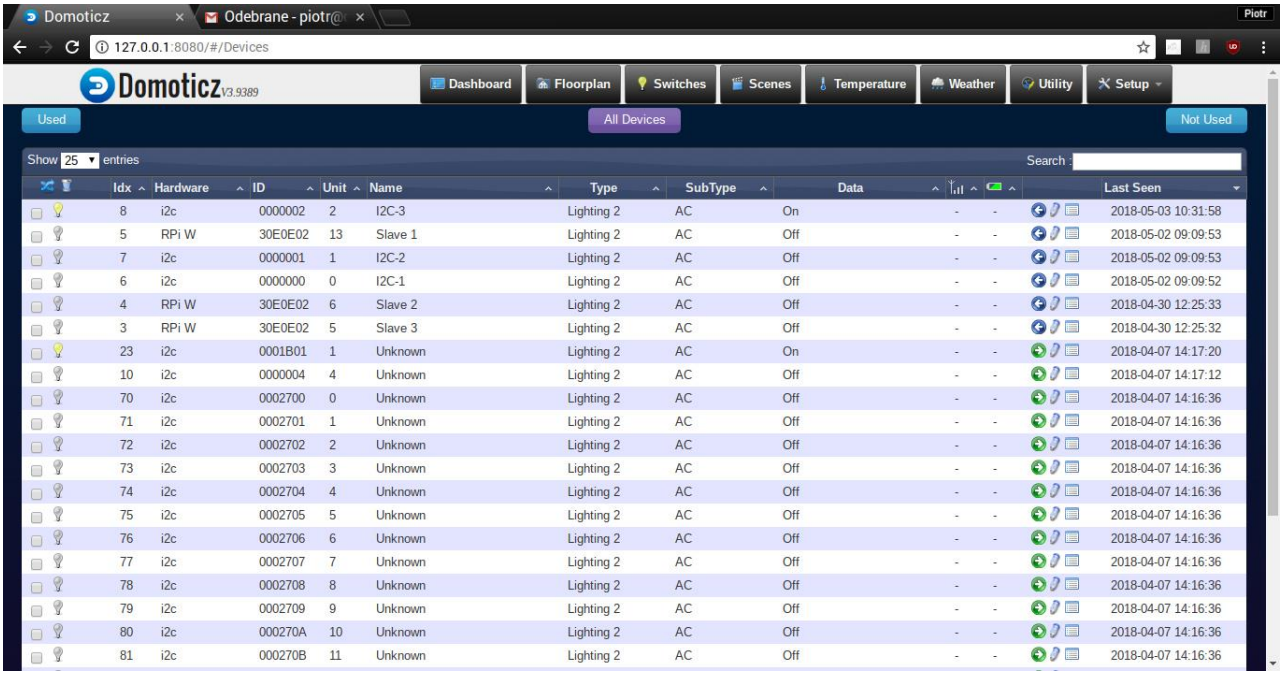
i2cset -y 1 0x27 0x13 0xff - where 0x27 is i2c board address, 0x13 is MCP port B address, 0xFF is port value (0b11111111 - set all outputs On)

If the board is properly connected to raspberry you can easyli add it to Domoticz.

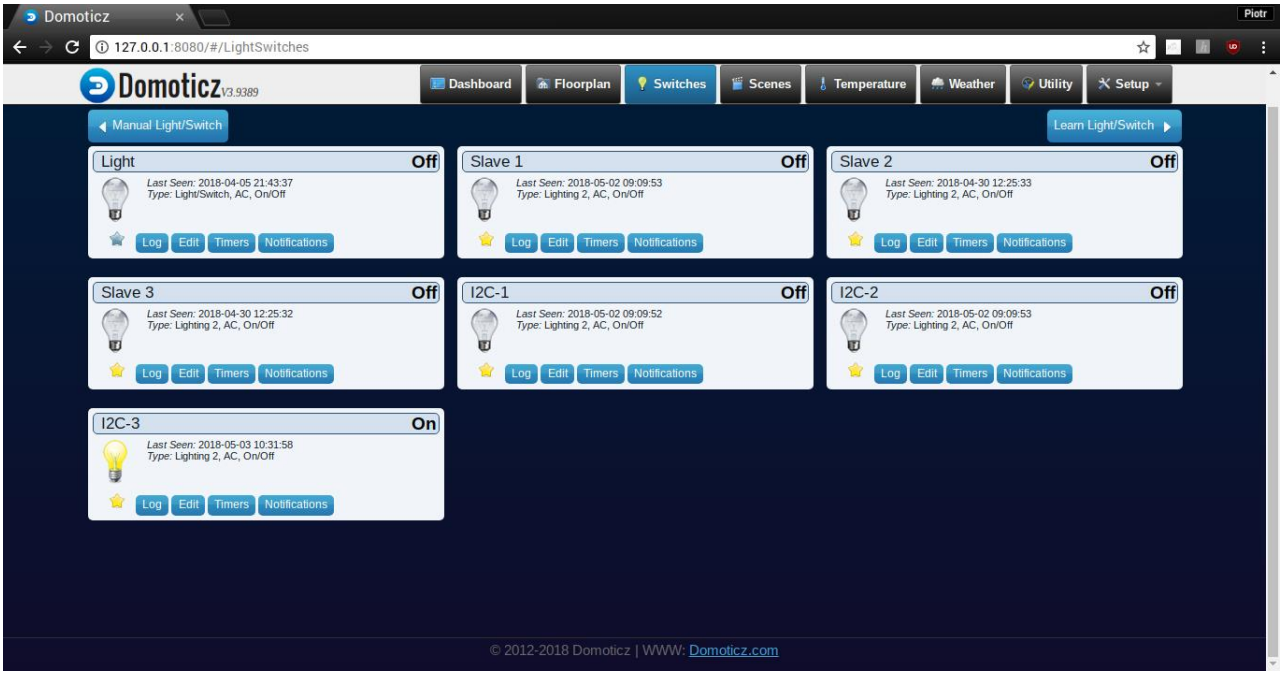
Configuration in DOMOTICZ - takes about 2 minutes:

1) **Go to Domoticz HARDWARE tab and add hardware as on the screen below:**

2) Then go to DEVICES tab - all available devices will be listed there:



3) Add the ones you want to control:



If you have further question feel free to contact me piotr@dziura.org.pl