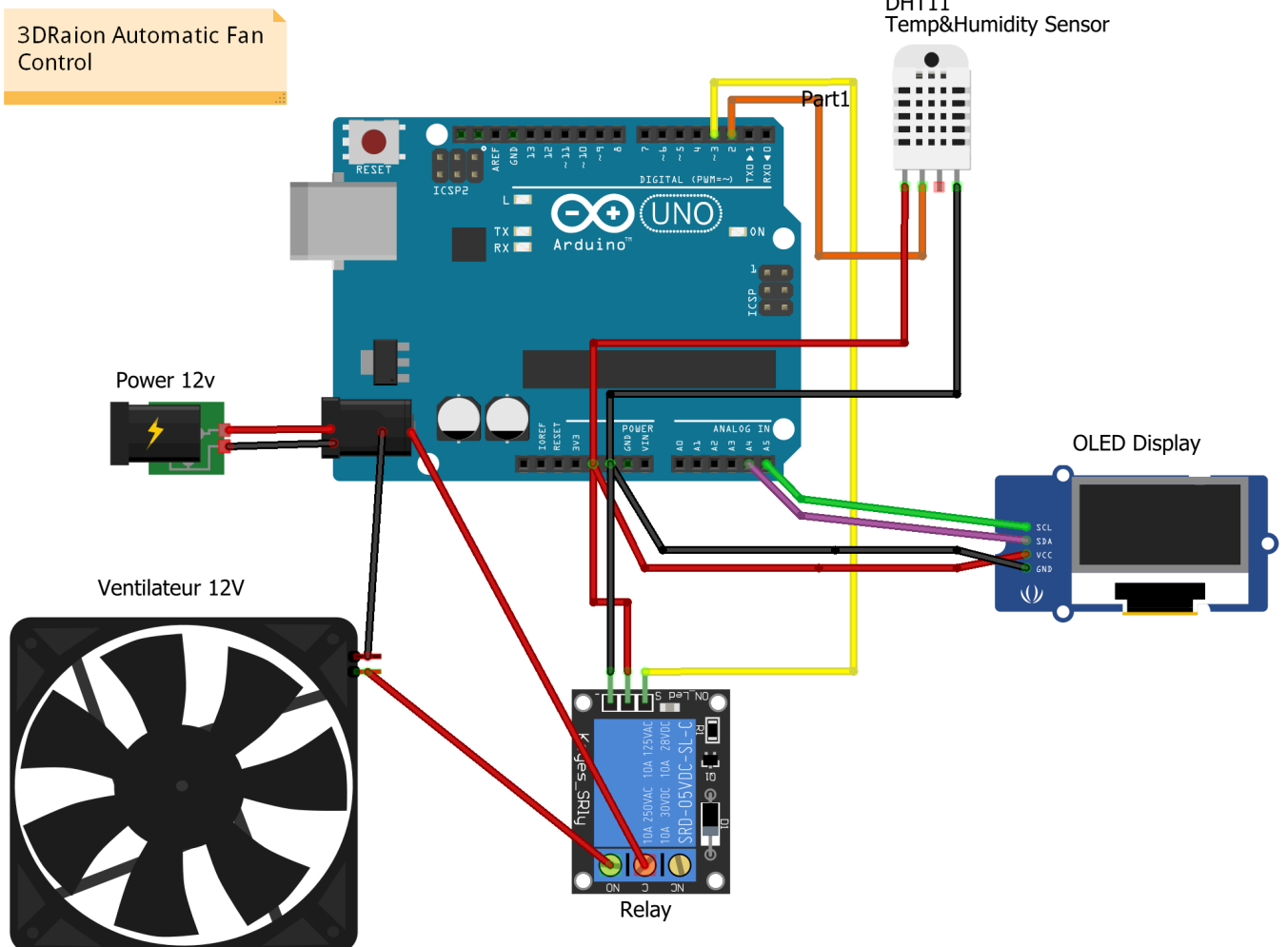


# Raion Automatic Fan Control

- PDF version : [download](#)
- Arduino IDE files : [download](#)

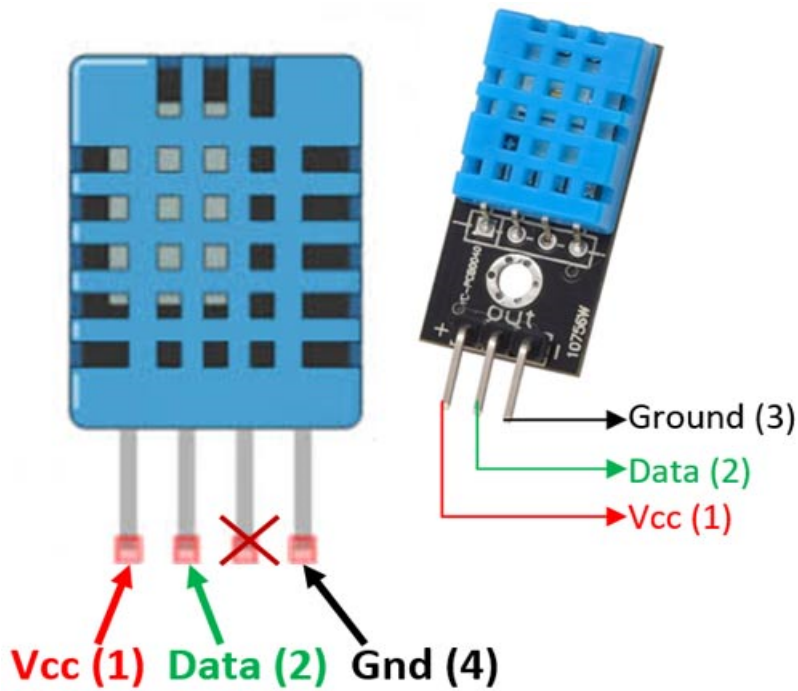
## Diagram



fritzing

### 1. Arduino <---> DHT11

There are 2 types of DHT11 sensor : 4 pins and 3 pins. Here are the informations on the pins :



- VCC(1) ---> Arduino 5V
- DATA (2) ---> Arduino PIN 2
- GND (4) ---> Arduino GND

## 2. Arduino <----> OLED

- VCC ---> Arduino 5V
- GND ---> Arduino GND
- SCL ---> Arduino A5
- SDA ---> Arduino A4

**!!! Be careful OLED pins positions are not the same on different versions**

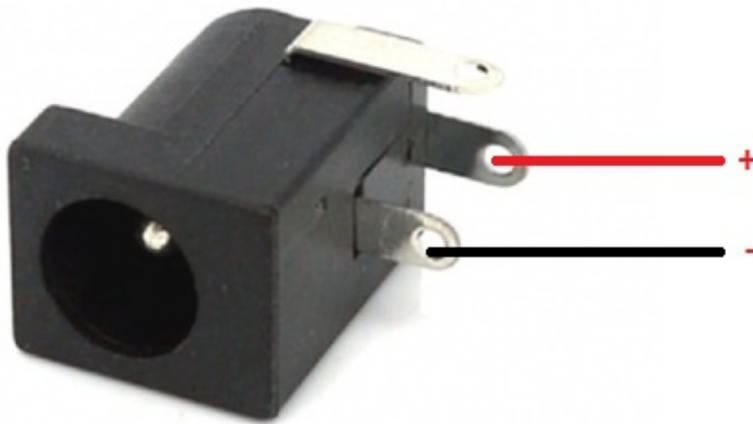
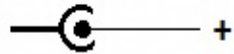
## 3. Arduino <----> Relay

- VCC ---> Arduino 5V
- GND ---> Arduino GND
- S (Signal) ---> Arduino PIN 3

## 4. Power <-----> Fan <----> Relay

Detail about power input jack :

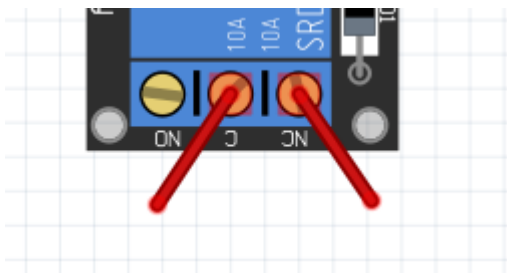
Verify polarity on the power adapter that have (+) inside and (-) outside



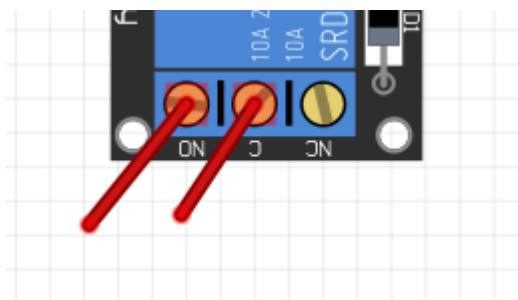
- Power Neutral ---> Fan Neutral
- Power Line ---> Relay C
- Relay NC or NO ---> Fan Line

Depends on which behavior that you want :

- **always ON**



- **always OFF**



## Important parameters in code

- **DHT11\_PIN** : set the Arduino PIN for reading data signal from DHT sensor

- **TEMP\_THRESHOLD** : define temperature at which we turn on the fan
- **relay** : define Arduino PIN for control state of the relay