



RGB LED DOUBLE HELIX DNA LAMP - Micro USB Socket & Closed Bottom - with Arduino Code



INVESTEGATE

VIEW IN BROWSER

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Summary

A remix of Hedo3Ds RGB Double Helix Lamp. With Micro-USB Socket, closed Bottom and LED nice animation.

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Hello,

I created a remix for this project: <https://www.printables.com/de/model/62043-rgb-double-helix-lamp-easyprint>

I have add a USB-Micro PCB Socket, because I wanted to save myself the cost of an extra power supply. You can buy the Sockets very cheap everywhere. Just look for "micro usb pcb".

So you can use an old USB charger or connect it directly to a TV or PC via USB.

The max current is 560mA for this lamp, if you run the Code with a brightness of 250. So 5V 1A are more than enough.

I offer here only the Base, Bottom and Code for the lamp. You need to download the rest from the original source project. ([click me](#))

- PIN 2 is push pin. (The other wire has to go to GROUND.)

- PIN 12 is LED Data pin.

- Default LED Type is WS2812.

If you need to do changes, change this in the arduino code.

USB-PCP

(100 μ F) Capasitor

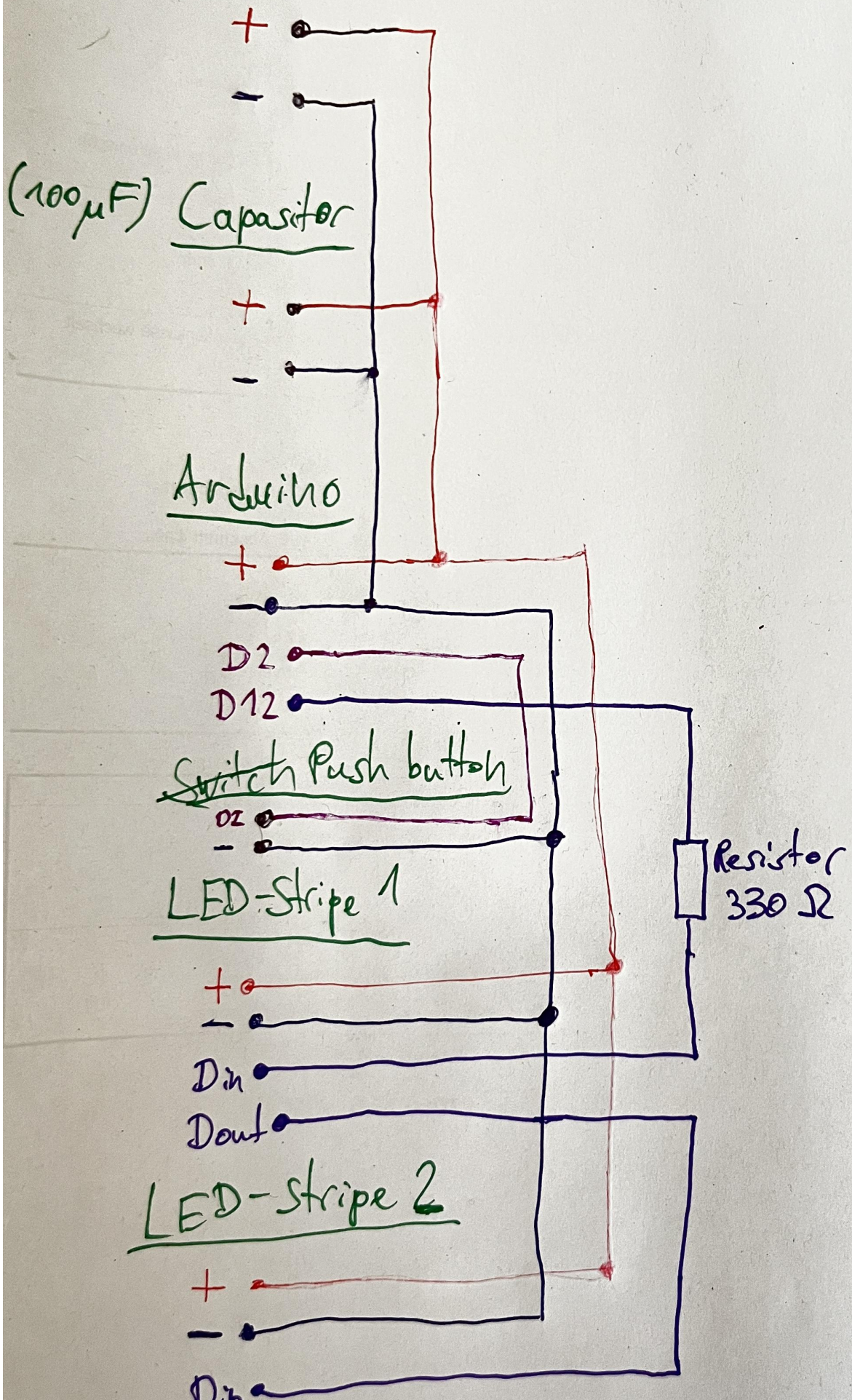
Arduino

Switch Push button

LED-Stripe 1

LED-Stripe 2

Resistor
330 Ω



I also used a 16V 100uF capacitor to reduce interferences and added a 330Ohm resistor between the arduino board and the first LED strip of the data wire.

For print settings, take a look in the 3mf files.

Filament i used:

- Fillamentum PLA Extrafill Wizard's Voodoo
- Geeetech PLA Glow in the Dark Green

<<< How do you change the effects >>>

There are 4 Lists of effects.

>To switch the Lists: Do a long klick of about 1-2 seconds.

>To switch the effects in a List: Do a short click.

>To activate sleep mode: Do a long click of about 3 seconds.

1st. List (palettecrossfade): 1 effect

2nd. List (palette mode): 12 effects

3rd. List (effect mode): 11 effects

4th. List (solid color mode): 18 effects

This remix is based on



RGB DOUBLE HELIX LAMP - easyprint

by Hedo3D

Model files



helix-lamp-base-usb.3mf

☐ Recommended! Preconfigured with filament change



helix-lamp-base-usb.stl




helix-lamp-bottom.3mf



helix-lamp-bottom.stl

Other files

investegate-led-animation.zip

 Arduino Code

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