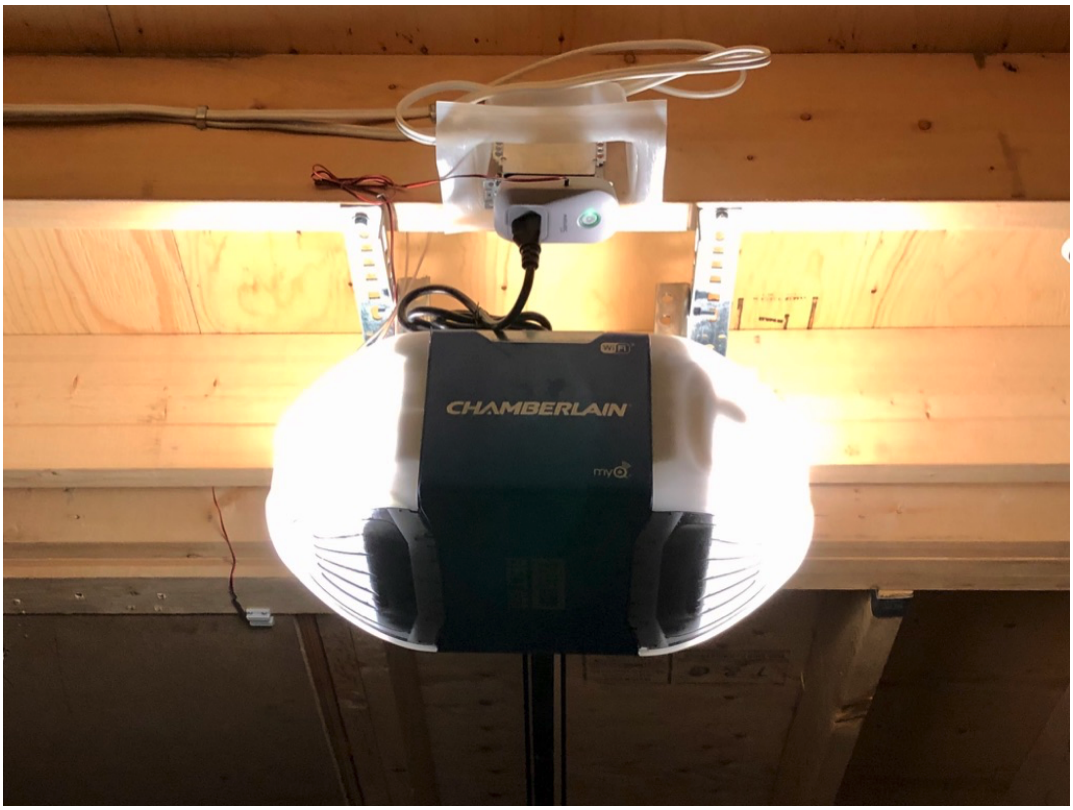
Hatch/Garage Door Automation

Overview

In our garage we have an attic hatch to the second floor storage space. Unfortunately, having the hatch open interferes with the garage door opening. Because of this fact, we wanted to disable the garage door when the hatch was open.

Solution

We decided to use a SONOFF S20 attached to a door sensor.



Parts

Part	Image	URL
Sonoff S20		

Gikfun MC-38 Wired Door Window Sensor for Arduino EK1656C		https://www.amazon.ca/gp/product/B06XS981HV/ref=ppx_yo_dt_b_asin_title_o09_s00?ie=UTF8&psc=1

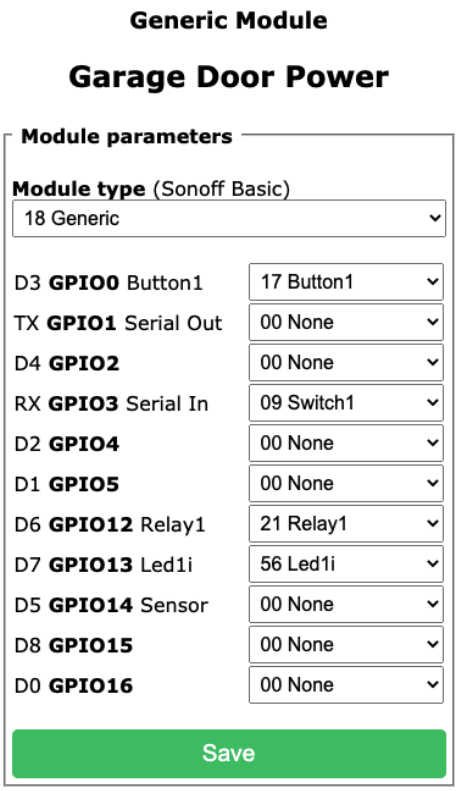
Wiring

Connect Door sensor to GPIO3(TX on Sonoff S20 board) and GND.

Configuration

Flashed S20 with Tasmota firmware and configured as a Generic Module with the following settings:

- Configure the Module as 18 Generic
- Set **GPIO0** as Button1
- Set **GPIO3** as Switch1
- Set **GPIO12** as Relay1
- Set **GPIO13** as Led1



Since we want the power off when the door is open, we need to set the switchmode to inverted follow.

Via the console, set Switchmode to 2 (inverted follow 0 = on, 1 = off)

> Switchmode 2

Future

May use a SONOFF basic and hide the controller in the box behind the plug so that no wires are visible.