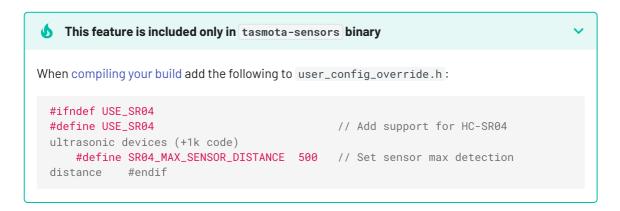
## HC-SR04 ultrasonic ranging sensor



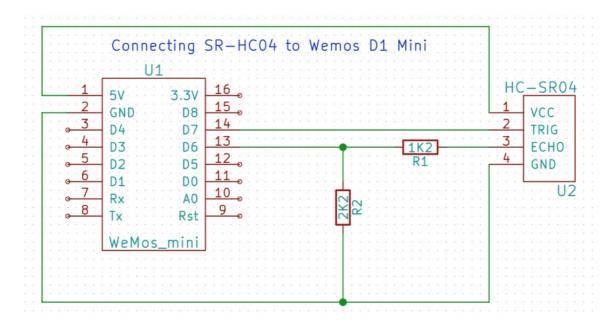
HC-SR04 (HC-SR04P and JSN-SR04T) is an ultrasonic ranging sensor. Provides 2cm to 300cm of non-contact measurement functionality with a ranging accuracy that can reach up to 3mm. Each HC-SR04 module includes an ultrasonic transmitter, a receiver and a control circuit. See HC-SR04 Ultrasonic Sensor for more information.

Buy example: - AliExpress - Sparkfun

The US-100 can also be use as a HC-SR04 if you remove the jumper at the back (check Adafruit documentation).

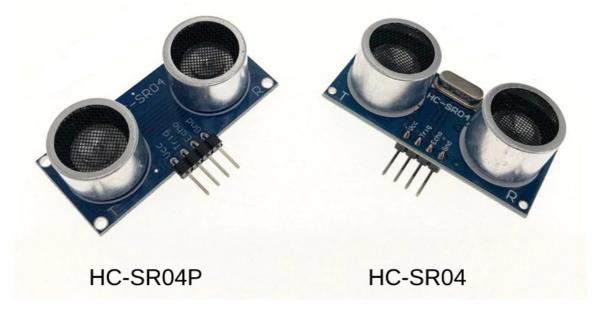
## Configuration

Wiring



The HC-SR04 operates at 5V and therefore the echo signal will be 5V as well. Connecting the echo pin via a voltage divider (see schematic) will divide the 5V to 3.3V, which is the operating voltage of an ESP8266.

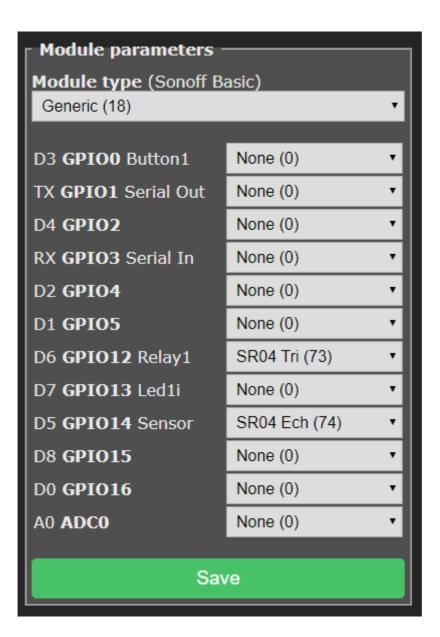
There is a variant of the HC-SR04, called HC-SR04P. It mainly operates at 3.3V and then it doesn't need the voltage divider but you will notice a range drop of about 1 meter.



## Tasmota Settings

In the **Configuration -> Configure Module** page assign:

- 1. GPIOx to SR04 Tri (69)
- 2. GPIOy to SR04 Ech (70)



## Tasmota Main

After a reboot webUI displays the HC-SR04 distance.

```
SR04 Distance 16.754cm
```

Sensor sends a tele/%topic%/SENSOR JSON response:

```
{"Time":"2019-01-01T22:42:35","SR04":{"Distance":16.754}}
```