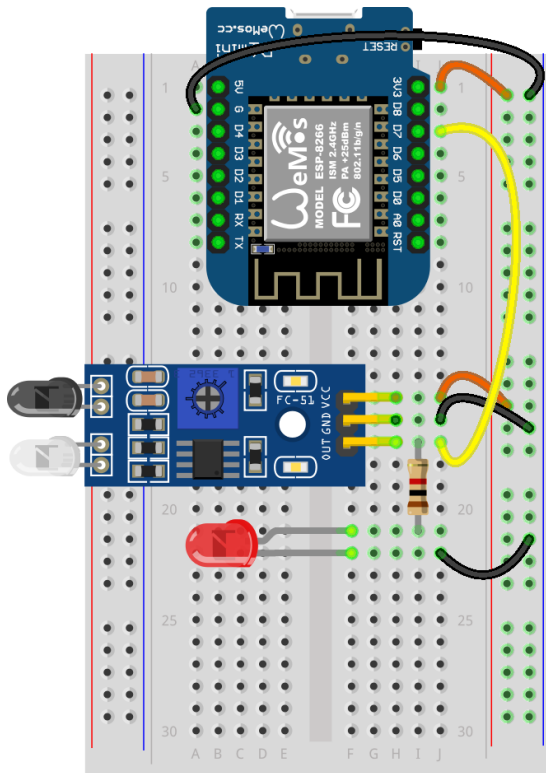
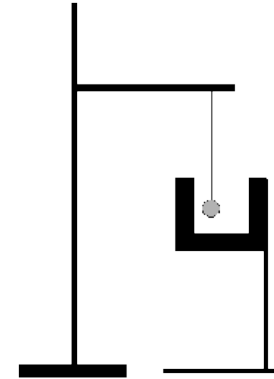


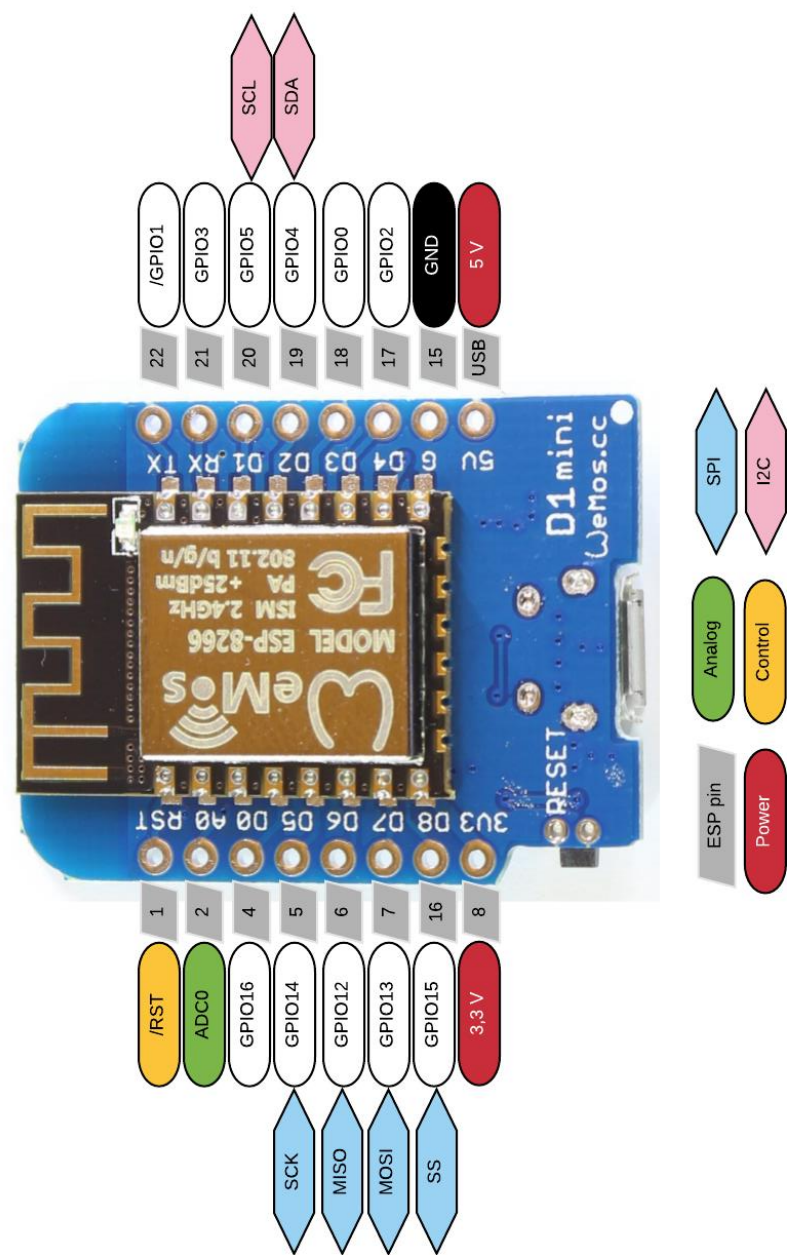
Photogate



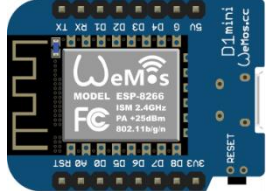
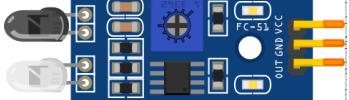
fritzing

```
1  import os, gc, micropython, machine, time
2  from board_manager import D7
3
4  GATE_PIN = D7
5  GATE_MODE = micropython.const(0) # 0 for always on | 1 for always off
6  DEBUG = micropython.const(1) # Change from 1 debug mode to 0 production mode
7  DEBUG_TIME = micropython.const(10) # Run in debug mode for this amount of seconds
8  DELAY_TIME = micropython.const(1) # Delay between loops
9
10 from sensor_manager import PhotoGate
11 gate1 = PhotoGate(GATE_PIN, mode=GATE_MODE)
12
13 while True:
14     gate1.read()
15     if gate1.event_change_to(1):
16         gate1.start_time()
17     if gate1.event_change_to(0):
18         gate1.stop_time()
19         print(gate1.millis)
20     gate1.store()
21
22     if DEBUG: time.sleep_us(DEBUG_TIME)
23     if not DEBUG: time.sleep_us(DELAY_TIME)
24
25
```

WEMOS D1 MINI – PINOUT



List of parts:

PIC	NAME	VALUE
	WEMOS D1 MINI	€ 1.75 – 2.00
	Obstacle Avoidance sensor	€ 0.30 - 0.50
	DISPLAY OLED SS1306	€ 1.60 – 2.00