

MOTION DETECTOR SENSOR USING RASPBERRY PI PICO W SND PIR SENSOR

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```
[motion.py]
1 import machine
2 import time
3
4 # Define pin numbers
5 PIR_PIN = machine.Pin(27, machine.Pin.IN)
6 BUZZER_PIN = machine.Pin(6, machine.Pin.OUT)
7
8 # Function to activate the buzzer
9 def activate_buzzer():
10     BUZZER_PIN.on()    # Turn buzzer on
11     time.sleep(0.5)    # Keep buzzer on for 0.5 seconds
12     BUZZER_PIN.off()   # Turn buzzer off
13
14
15 # Main loop to detect motion
16 while True:
17     if PIR_PIN.value() : # PIR sensor detects motion
18         print("Motion detected!")
19         activate_buzzer() # Activate the buzzer
20         time.sleep(0.2)   # Small delay to debounce and save CPU
21
```



