

Resistor

Name 3

Resistance 1 kΩ

Arduino Uno R3

```
1 const int motionPin = 2;
2 const int ledPin = 13;
3
4 void setup() {
5   pinMode(motionPin, INPUT);
6   pinMode(ledPin, OUTPUT);
7   Serial.begin(9600);
8 }
9
10 void loop() {
11   int motion = digitalRead(motionPin);
12
13   if (motion == HIGH) {
14     digitalWrite(ledPin, HIGH);
15     Serial.println("Motion detected! LED ON");
16   } else {
17     digitalWrite(ledPin, LOW);
18     Serial.println("No motion. LED OFF");
19   }
20
21   delay(500);
22 }
23
```

Serial Monitor

Motion detected! LED ON
Motion detected! LED ON
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