

Pohybové čidlo 2

```
int led = 13;           // the pin that the LED is attached to
int sensor = 2;         // the pin that the sensor is attached to
int state = LOW;        // by default, no motion detected
int val = 0;            // variable to store the sensor status (value)

void setup() {
  pinMode(led, OUTPUT); // initialize LED as an output
  pinMode(sensor, INPUT); // initialize sensor as an input
  Serial.begin(9600);    // initialize serial
}

void loop(){
  val = digitalRead(sensor); // read sensor value
  if (val == HIGH) {        // check if the sensor is HIGH
    digitalWrite(led, HIGH); // turn LED ON
    delay(100);             // delay 100 milliseconds
    if (state == LOW) {
      Serial.println("Detekcia pohybu!");
      state = HIGH;        // update variable state to HIGH
    }
  }
  else {
    digitalWrite(led, LOW); // turn LED OFF
    delay(200);             // delay 200 milliseconds
    if (state == HIGH){
      Serial.println("Pohyb sa zastavil!");
      state = LOW;         // update variable state to LOW
    }
  }
}
```

