

INSTRUCTION MANUAL

1. Create a free account with pushbullet.com,

- **setup web API connection**
- **create access token from :**
settings/account/create-access-token
- **go to <https://api.pushbullet.com/> and inspect ->security->view-certificate->Details-->get thumbprint key**

2. Make a connection between hardware components as shown in the connection diagram exactly

3. Upload the source code of the project =

```
#include <ESP8266WiFi.h>
```

```
#include <WiFiClientSecure.h>
```

```
const char* ssid = "Shubham_hotspot";
```

```
const char* password = "Shubham4105@";
```

```
const char* host = "api.pushbullet.com";
```

```
//https://api.pushbullet.com/v2/pushes
```

```
const int httpsPort = 443;
```

```
const int gpio_pir_sensor = 16 ; // GPIO 16
```

```
const char* accessToken = "o.El3e5Bb82aPtMpvRSBtZc0KSfpjIIU0f";
```

```
const char* fingerprint = "497193b763c8126276cd14d87a2c186fce7f7381";
```

```
void setup() {
```

```
    Serial.begin(115200);
```

```
    delay(10);
```

```
    pinMode(gpio_pir_sensor, INPUT);
```

```
    // We start by connecting to a WiFi network with active internet connetion
```

```
    Serial.println();
```

```
    Serial.println();
```

```
    Serial.print("Connecting to ");
```

```
    Serial.println(ssid);
```

```
    WiFi.begin(ssid, password);
```

```
    while (WiFi.status() != WL_CONNECTED) {
```

```
        delay(500);
```

```
        Serial.print(".");
```

```
    }
```

```
    Serial.println("");
```

```
    Serial.println("WiFi connected");
```

```
    Serial.println("IP address: ");
```

```
    Serial.println(WiFi.localIP());
```

```
}
```

```
void sendSignalAlert()
```

```

{
    Serial.println("Motion detected ! sending alert request...");

    String url = "/v2/pushes";

    WiFiClientSecure client; // Use WiFiClientSecure class to create TLS connection
    client.setInsecure();

    //Serial.print("connecting to ");
    //Serial.println(host);

    if (!client.connect(host, httpsPort)) {
        Serial.println("connection failed");
        return;
    }

    //Serial.print("requesting URL: ");
    //Serial.println(url);

    client.print(String("POST ") + url + " HTTP/1.1\r\n" +
        "Host: " + host + "\r\n" +
        "User-Agent: ESP8266\r\n" +
        "Access-Token: " + accessToken + "\r\n" +
        "Content-length: 62\r\n" +
        "Content-Type: application/json\r\n" +
        "Connection: close\r\n\r\n" +
        "{\"body\": \"Someone is nearby !!!\", \"title\": \"Alert\", \"type\": \"note\"}"
    );

    Serial.println("alert request sent !");
}

```

```
}

void loop()
{
  if(digitalRead(gpio_pir_sensor)==HIGH)
  {
    sendSignalAlert();
    delay(5000);
  }
}
```

4. Install pushbullet application from play store in android / add pushbullet extension to chrome browser on windows

5. now make active internet connection which you have already used in code

For e.g. (you can use wifi also)

```
const char* ssid  = "Shubham_hotspot";
const char* password = "Shubham4105@";
```

6. turn on switch and put device to its appropriate position

