

LAB-3  
install pir motion sensor to home assistant

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Index

[1. Intro 3](#_Toc64626300)

[2. about home assistant 3](#_Toc64626302)

[3. Parts required 3](#_Toc64626303)

[4. Install the parts 3](#_Toc64626304)

[5. Install esphome 4](#_Toc64626305)

[6. code process 4](#_Toc64626306)

[7. validate/compile 5](#_Toc64626307)

[8. flash/end results 6](#_Toc64626308)

# Intro

in this step by step test guide I will explain how to install a pir motion sensor on home assistant. There will of course be pictures to help you with this test guide. The photos also make the test guide shorter and clearer for the person who wants to perform this installation. What's so great about this Iot project is that it doesn't end here. This is a series of different Iot projects. It starts of course with some simple projects but then it gets more difficult and of course more challenging.



# about home assistant

Home Assistant is an open-source home automation platform running on Python 3. Track and control all devices at home and automate control. It features support for very wide range of home automation devices and system integrations. As of November 2020 it ships with over 1700 modular plug-ins or add-ons for different IoT technologies, systems and services, available as integration components part of the official Home Assistant core application software. There are also many more additional integrations and custom components that are not part of the official Home Assistant core, which can just as easily be installed via HACS ("Home Assistant Community Store").

# Parts required

1x pir motion sensor

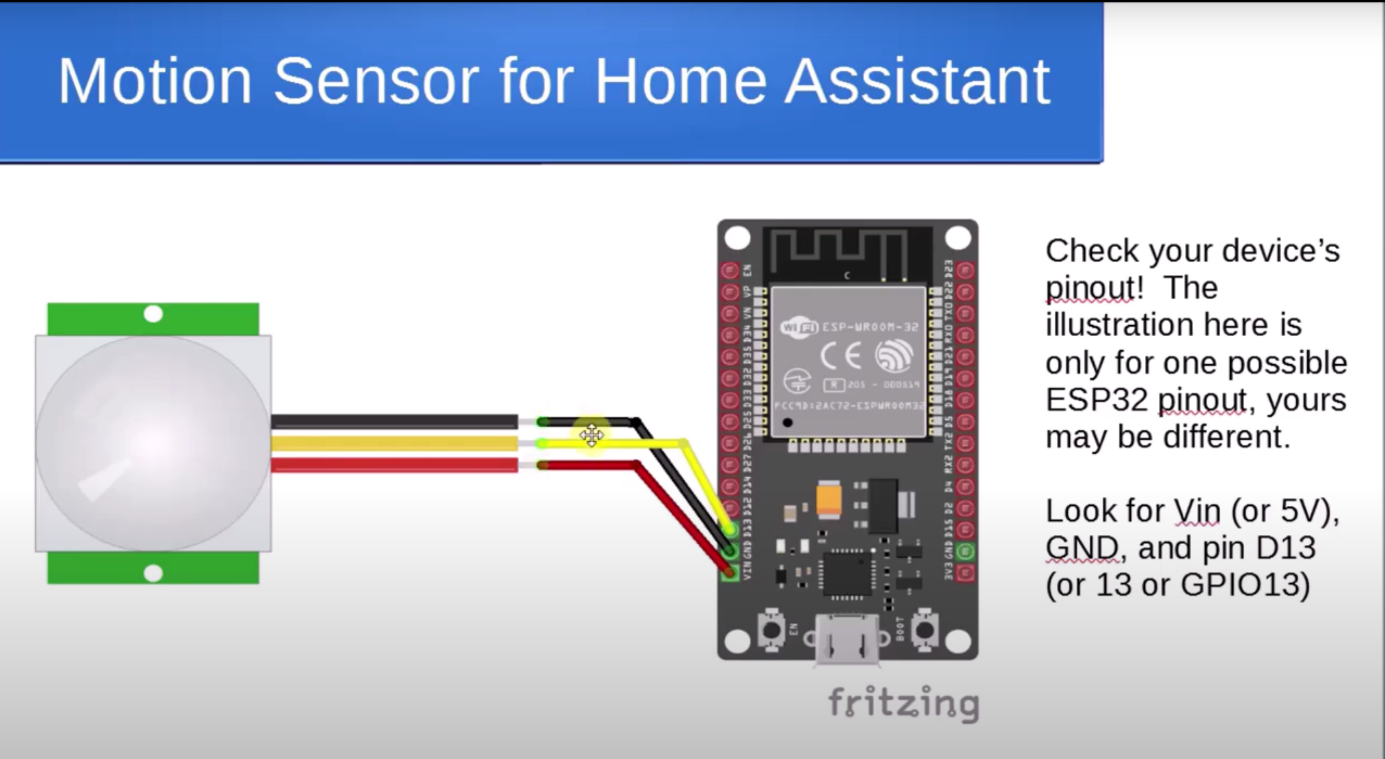
1x esp8266-01

3x jump wires (female to female)

1x micro usb cable

# Install the parts

First you are going to install the pir motion sensor to the esp8266-01. Follow the steps in this photo to complete this installation process:



# Install esphome

First, you are going to download esphome from the add on store at the supervisor tab. After you have done that you have to open and start esphome.

# code process

When you have opened esphome you can press the plus sign in the right corner. There you will create a new page that is completely ready for the pir motion sensor. There you will use the indicated code in the edit tab:

esphome:

name: pir\_motion\_sensor

platform: ESP8266

board: esp01\_1m

wifi:

ssid: "wifi name"

password: "wifi password"

# Enable fallback hotspot (captive portal) in case wifi connection fails

ap:

ssid: "Pir Motion Sensor "

password: "luxQyfUUOd3n"

captive\_portal:

# Enable logging

logger:

# Enable Home Assistant API

api:

password: "personel password"

ota:

password: "personel password"

binary\_sensor:

- platform: gpio

pin: 13

name: "PIR Sensor"

device\_class: motion

# validate/compile

After you have modified the code you are going to validate the code. You can validate the code by pressing the validate button on the file. If the code is okay you are going to compile the code. You can compile the code by clicking on the 3 dots on the file. After the compile you will download the binary code.

# flash/end results

When you have downloaded the binary code you will flash it in the esp flasher program that you can download on the internet. Then you open the flasher and then you can flash the code. If you have flashed the code you can upload the code. The upload can be completed by clicking the upload button in the file. After that, your pir motion sensor is ready for use.

Download source: [Releases · esphome/esphome-flasher (github.com)](https://github.com/esphome/esphome-flasher/releases)