

## General Description:

PYM202 is a PIR wall switch module, which design to detect the infrared of emitted from human body within specified detection area by employed PIR sensor, then control the switch of AC power ON/OFF to turn ON/OFF the lighting, achieve the purpose of turn ON/OFF the lighting automatically without press the wall switch by hand.

Two AC power lines design (one AC power in and one AC power out), the AC power wiring arrangement of PYM202 PIR wall switch module is in series with lighting equipment, it is exactly identical to the traditional mechanical wall switch, so PYM202 PIR wall switch can replace the traditional mechanical wall switch without any power line changed, then the lighting system is changed to smart lighting system from traditional lighting system.

The embedded design of PYM202 PIR wall switch module, can be fit into specified plastic cases, the mounted into the slot of wall switch. The used Fresnel lens and PIR sensor by PYM202 PIR wall switch module can reach the horizontal FOV (Field of View) angle up to 120° and vertical FOV angle up to 70°, and the minimum sensing distance can reach up to 6 meters. PYM202 provides two AC power version, one is for 110 VAC power, the other is for 220 VAC power.

## Specification:

- Detect the infrared of emitted from human body within specified detection area, then control the switch of AC power ON/OFF to turn ON/OFF the lighting automatically.
- Two AC power lines design (one AC power in and one AC power out), so PYM202 PIR wall switch can replace the traditional mechanical wall switch without any power line changed
- Support lamp types: Incandescent lamp, Halogen lamp, fluorescent lamp, Compact Fluorescent lamp, PL lamp, LED lamp
- Maximum Support Power of Lighting:
  - ✧ Incandescent lamp: 500W
  - ✧ Halogen lamp: 150W
  - ✧ fluorescent lamp: 150W
  - ✧ PL lamp: 150W
- Support the horizontal FOV (Field of View) angle up to 120° and vertical FOV angle up to 70°, and the minimum sensing distance can reach up to 6 meters
- Support the delay time to turn off the lighting after turn on from 10 to 360 seconds
- The sensitivity is adjustable through on board VR (Variable Resistor)
- Provides two AC power version of modules, one is for 110 VAC power, the other is for 220 VAC power
- Operation Temperature: -20° ~ +70°C



PYM202 Module Top View



PYM202 Module Bottom View

**Complete set with plastic case photo:**



**Front View**



**Inner View**

### **Functions Description of connection pins and adjustable VRs**



- ← **Sensitivity Adjust VR: CW for increase Sensitivity, CCW for decrease Sensitivity**
- ← **Delay Time Adjust VR: CW for increase delay time, CCW for decrease delay time**
- ← **Connect to lamp AC Power Line input**
- ← **Connect to AC Power Line**

### **Power Line Connection Diagram:**

