PIR-730 Installation Manual

Item: 4727_730 (A5DS)

PRODUCT INTRODUCTION

The PIR-730 is an high stability ceiling-mounted passive infra red (PIR) detector. Adopts advanced signal processing technology which provides high detection ability and anti-false alarm ability. MCU processing ensuring the reliability from design basis. When an intruder passes through the detection area, the detector will detect the human body movements automatically. If any movements, it will send alarm signal to the connected alarm host. It suits for safety protection in residential houses, villas, factories, shopping malls, warehouses and office buildings etc.

TECHNICAL SPECIFICATION

Operation voltage: DC 9-16V

Current consumption: ≤18mA (DC 12V)

Detecting distance: Φ6m at 3.6m of ceiling installation

Detecting speed: 0.3m/s-3m/s

Detecting an: 360°

Self-testing time: 60s

Alarm time: 3s/30s optional

Alarm indication: Red LED

Sensor: Double element Pyroelectric infrared sensor

Operating temperature: -10℃~ +50℃

Environment humidity: ≤95% RH(no coagulation)

Anti RF interference: 10MHz-1GHz 20v/m

Instillation Mode: Ceiling mounted

Installation height: 2.5-3.6m

Alarm output: N.C. or N.O. (DC28V 100mA)

Tamper output: N.C. (DC28V 100mA)

Outline Size: Φ100*36mm

PIR-730 MAIN FEATURES

- MCU control, resist false alarm efficiently
- Double temperature compensation
- Pulse count adjustment
- White light interference immune
- RF interference immune (20V/m-1GHz)
- Fresnel lens optics
- Wall/ceiling installation
- Alarm output N.C. or N.O.
- Alarm timer optional (3s or 30s)
- Intelligent floating thresholds technology
- Enhanced appearance design
- SMT high stability production

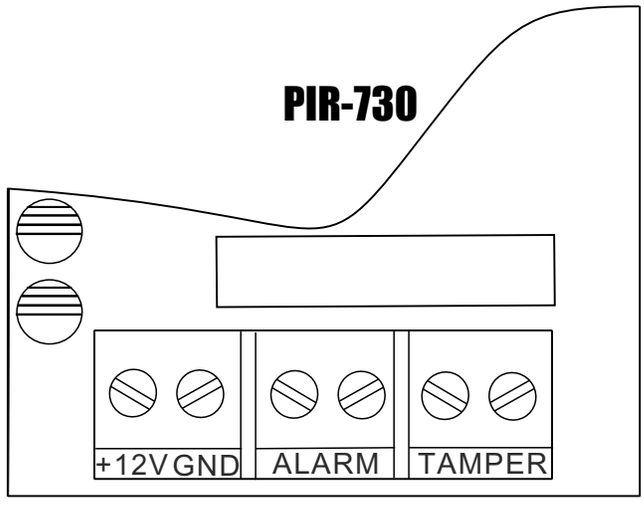
INSTALLATION

1. Avoid installation in outdoor, places with pets, air-condition, heat source nearby, places with direct sunshine and places under rotating objects.
2. Install on stable surface, without vibration.
3. Install the detector in places where an intruder may passes easily.

INSTALLATION STEPS

1. Screw the bottom off and open the detector
2. Remove the PCB
3. Drill a wire hole in the rear housing
4. Install the rear housing in a suitable position
5. Fix the internal PCB
6. Connect the terminal block as follows
7. Place the detector cover

WIRING TERMINAL BLOCK FIGURE



+12V	**DC Positive**
GND	**DC Negative**
ALARM	**Relay contacts**
TAMPER	**Protection Switch**

OPERATING INSTRUCTION

Jumper setting

1) **PULSE Jumper:** Adjust sensitivity and the detection speed.

Short 1&2: Class 1 pulse, high sensitivity, good anti RF interference ability, suits for ordinary environment.

Short 2&3: Class 2 pulse, low sensitivity, strong anti RF interference ability, suits for environments with heavy RF interference.

2) **Relay Jumper:** Choose N.C. or N.O. to set the state of alarm output according to different requirements of alarm host.

Short 1 & 2: N.O.

Short 2 & 3: N.C. (Default)

3) **Delay Jumper:** Used to set the lasting time of relay and alarm indicator when alarming.

Short 1&2: 3S (Default)

Short 2&3: 30S

4) **LED Jumper:** Used to control LED indicator. This function will not influence the normal detector's operation. In order to provide better concealment, the LED indicator can be off after test by pulling out all the jumpers.

PRODUCT TESTING

Connecting power supply (DC12V), LED indicator flashes, the detector will go into self testing state for about 60s. When the LED indicator off, the detector enters into normal working state. For testing walk within the detection range in parallel with the wall where the detector is installed. When the LED indicator lights, the detector enters into alarm state.

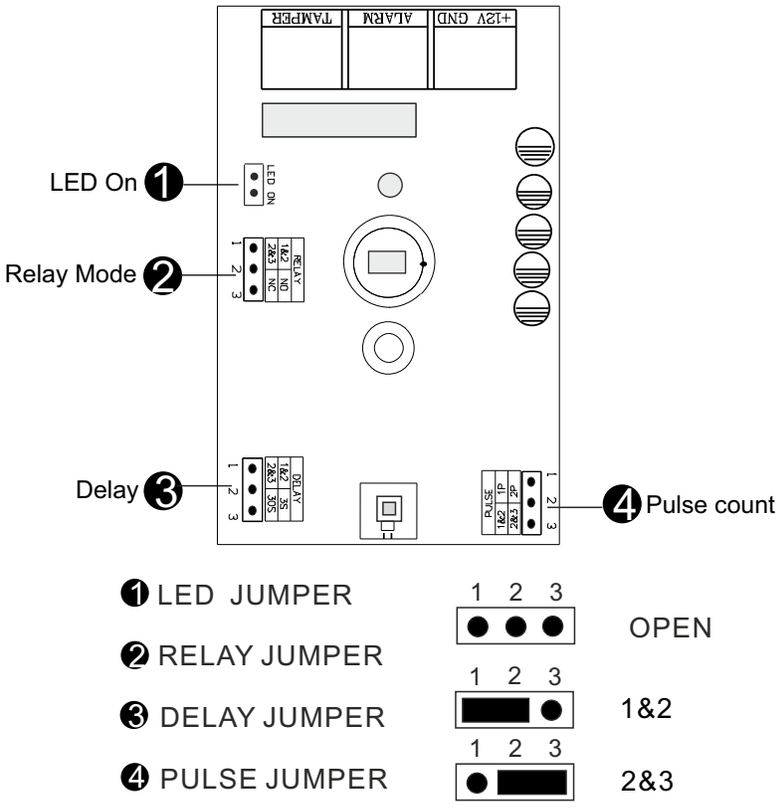
NOTICE

1. Install the detector properly according to manual. Do not touch the sensor surface in order not to decrease the sensitivity. If the sensor needs to be cleaned, use soft cloth with little alcohol after cutting off the power.

2. The detector can decrease the rate of the accident but can not assure no risk at all. For safety concern, besides proper usage of the detector, please enhance vigilance and take good protection in daily life.

3. Constant power supply should be provided to ensure proper operation . Walking test should be carried out periodically. Once a week is recommended.

JUMPER SETTING FIGURE



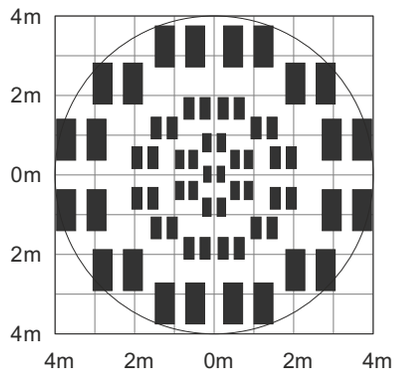
❶ LED JUMPER

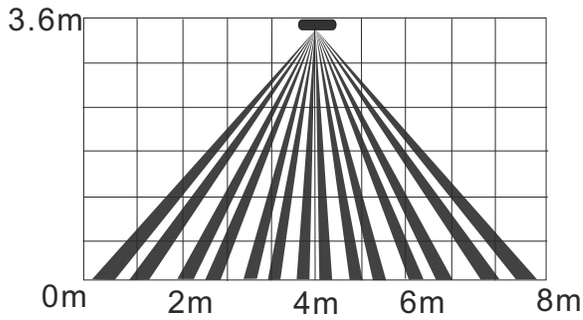
❷ RELAY JUMPER

❸ DELAY JUMPER

❹ PULSE JUMPER

DETECTING AREA VIEW





Top & Side views Detection Pattern PIR-730

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