

PRIMO



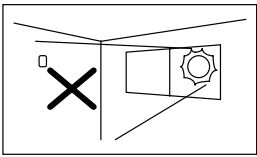
Pet Immune Passive Infrared Detector IR-530P

SPECIFICATIONS

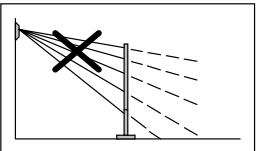
Infrared sensor..... Dual element
Power supply..... 9 ~ 16 VDC, 12V typical
Current drain 10 mA, 12VDC
Alarm output..... N.C/N.O 30VDC, 0.2A max.
Alarm period..... 2 ± 0.5 sec.
Pulse count..... 2 - 3 selectable
Tamper switch..... N.C cover open activates
Walk test LED red, can be disabled
RFI immunity..... Ave. 20V/m (10~1000 MHz)
Detectable speed 0.3 ~ 1.5m/sec.
Mounting height 2.2 m typical
Humidity..... 95% RH maximum
Temperature -20°C ~ 60°C (-4°F ~ 140°F)
Dimensions..... 100 x 60 x 40mm
Unit weight..... 86 grams

* Specifications subject to change without prior notice.

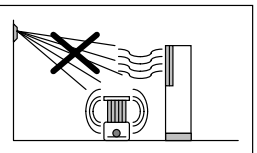
INSTALLATION HINTS



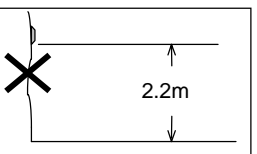
Do not install where the detector will face direct or reflected sunlight, windows onto main roads (car head lights).



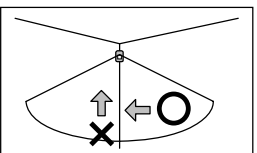
Ensure that there are no obstructions (plants, screens, furniture etc.) in the field of view, which may cause incorrect cover/operation of the detector.



Avoid locating the detector in areas, which contain equipment that may change the environment temperature rapidly.



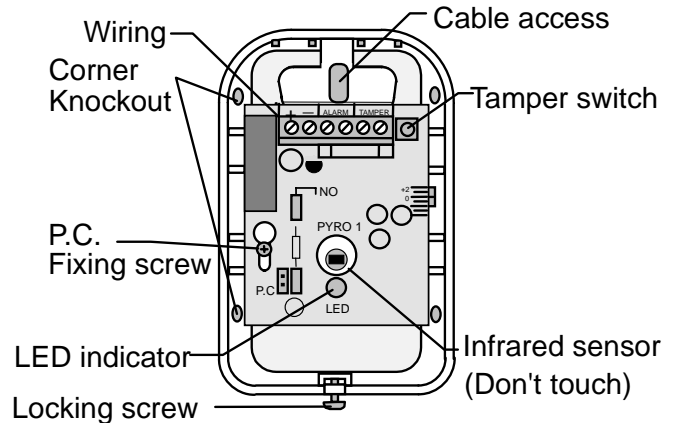
Install the detector at the recommended height on a rigid surface.



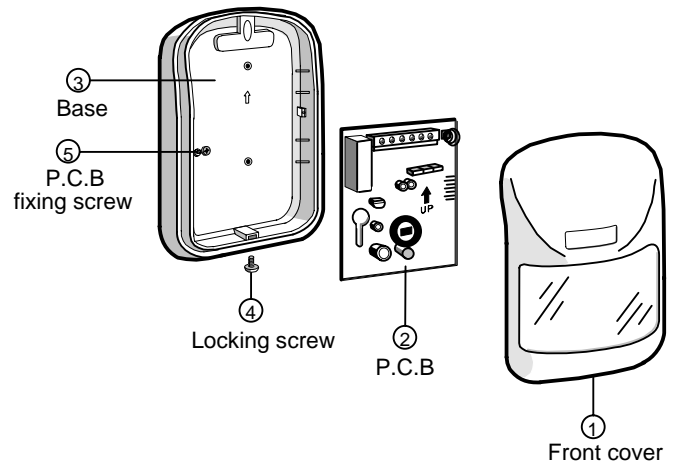
PIR detector is more sensitive to the movements "across" the detection zones than "toward" the detector.

Installation Instructions

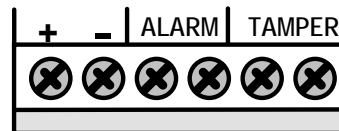
DESCRIPTION



INSTALLATION & WIRING



1. Open the front cover ① by loosening the screw ④. Remove the PCB ② from the base ③ by loosening the PCB fixing screw ⑤.
2. Mount the base firmly to the selected position and replace the PCB at proper position (+1).
3. Connect the wires to the corresponding terminals according to the following instructions.



+, - : 9 ~ 16 VDC power supply


ALARM : NC/NO selectable alarm output

TAMPER : 24 hours N.C. loop of control panel

4. Replace the front cover, apply power to the detector and carry out a walk test.

WALK TEST

A walk test should be carried out to ensure that the desired detection coverage is achieved. Apply power to the detector and wait for it to warm up and stabilize (approx. 30 seconds). Walk around the detection area and note that the LED lights on detecting movement. The LED can be disabled by pulling the jumper off the PCB pins labeled "LED".

 Verify the correct operation of the detector by carrying out a walk test at least once a year.

PULSE COUNT

The PRIMO features intelligent pulse count that reduces the possibility of false alarm caused by environmental and power line interference. The pulse count can be set to count 2 or 3 pulses by placing the jumper head on the corresponding pins. An alarm signal will only be sent when the selected pulse number is generated within delay time of 20 seconds. IR-TEC's intelligent pulse count circuitry analyzes the width difference of pulse signal. When human motion is detected a subsequent pulse signal will override the pulse count setting and generate the alarm signal without any delay.

PET IMMUNE NOTICES

To ensure optimum pet immunity of this detector, please read the following notices carefully.

1. This detector is immune to one domestic pet up to **18 kg** or **60 cm** moving on the floor. If animal is slightly bigger or taller, sliding the PCB downward a little bit may still can avoid unwanted detecting.
2. If animal activity takes place above 1 meter high, the pet immunity allowance will be significantly reduced. It is therefore recommended to select a mounting location that can avoid animal moving within 1.8 m of the detector.
3. This detector should be mounted on the wall or corner at **2.2 m** high and perpendicular to the floor.
4. **DO NOT USE** any mounting bracket with swivel adjustment.

5. The weight of animal can only be used as a reference. Other factors such as height and color of fur could also affect the level of immunity.
6. **DO NOT AIM** the detector at the stairways that animal can pass.
7. Ensure that the PCB position is placed at **+1** for optimum pet immunity.
8. It is vitally important to verify the pet immune function after installation completed. If animal is detected, sliding the PCB upward or downward to avoid.

ALARM OUTPUT SELECTOR

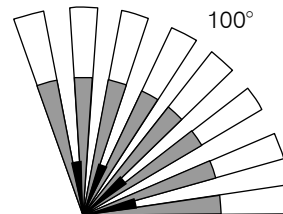
The alarm output can be changed to N.O by removing the jumper from N.C/N.O selector. Normally Closed output is generally used in intruder alarm system. N.O output can be used as a trigger signal of alarm event driving device.

DETECTION PATTERN

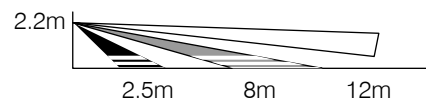
IR-530P

100°, 12 x 12 m at 25°C

Top View



Side View



Taiwan Patent M242802
China Patent ZL03240302X