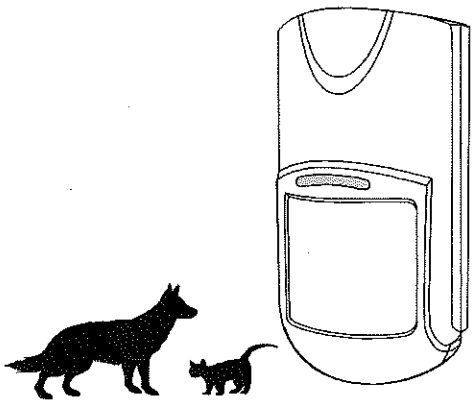
Manual of Pet-immunity PIR Detector

M051-2EVer1.0

PRODUCT INTRODUCTION

The product is a pet-immunity passive infrared detector with high stability. It adopts advanced signal processing technology, providing superhigh detection and anti-false alarm abilities, and MCU processing ensuring the reliability from the design basis. When an intruder passes through the detection area, the detector will detect the movements of human body automatically. If any movements, it will send alarm signal to the connected alarm host. It is suitable for safety protection in residential houses, villas, factories, shopping malls, warehouses and office buildings etc.

PRODUCT PROFILE



TECHNICAL SPECIFICATION

Operation voltage: DC 9-24V

Current consumption: ≤ 18mA(DC 12V)

Detecting distance: 12m

Detecting speed: 0. 3m/s-3m/s

Detecting angle: 110 °

Detecting area: 11 fields in far region, 8 fields in middle region, 5 fields in near region

Self-testing time: 60s

Alarm time: 3s/30s optional

Alarm indication: Red LED

Sensor: Double element pyroelectrie infrared sensor

Operating temperature: -10 ℃ ~ +50 ℃

Environment humidity: ≤ 95% RH(no congelation)

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

Installation model: Wall/corner mounted

Installation height: 1.7m-2.5m (2m is recommended)

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

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

Execute criterion: GB10408.1-2000, GB10408.5-2000

Outline size: 106*62*46mm

MAIN FEATURES

- MCU processing, resist false alarm efficiently
- Double temperature compensation
- Pulse count adjustment
- Immunity of less than 12kgs pet
- Anti white light interference
- Anti RF interference (20V/m-1GHz)
- Wall/corner installation
- Alarm output N. C. or N. O.
- Alarm time optional (3s or 30s)
- Intelligent floating thresholds technology

INSTALLATION

1. Avoid installations in outdoors, air-conditioners and heat sources nearby, places with direct sunshine and places under rotating objects.

2. The installation surface should be solid and without vibration.

3. Install the detector in places where an intruder may pass easily.

4. Choose a suitable position. Pull the prepared power wires and signal wires through the hole in the detector bracket base and use screws to fix it onto the wall. See Illustration One.

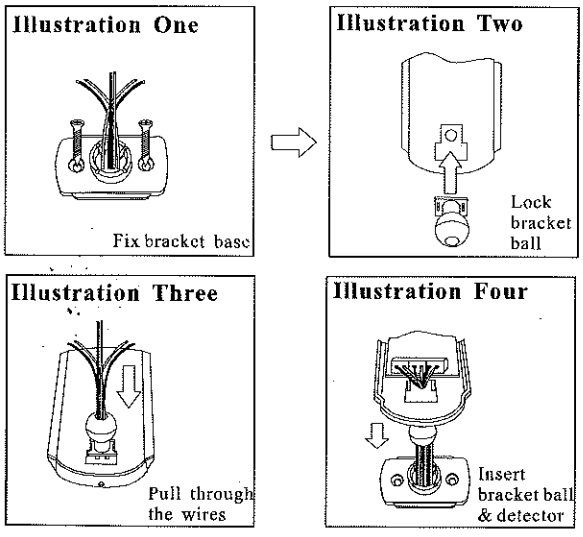
5. Lock the flat surface of the bracket ball into the detector bottom cover. See Illustration Two.

6. Remove the detector top cover and pull the power wires and the signal wires through the round hole in the middle of the bracket ball. See Illustration Three.

7. Connect the wires as Illustration Five. Then insert the bracket ball with the detector into the bracket base. See Illustration Four.

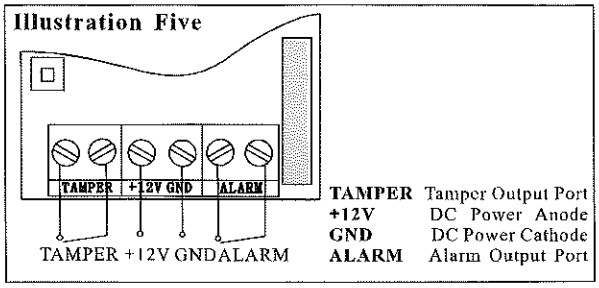
8. Fix the detector top cover and adjust the installation angle in accordance with demands.

INSTALLATION ILLUSTRATIONS



TERMINAL CONNECTION

Illustration Five



TAMPER	Tamper Output Port
+12V	DC Power Anode
GND	DC Power Cathode
ALARM	Alarm Output Port

Pet-immunity function

Install the detector at the height of 2.2m or so. Make sure there is no inducement for pet to pass by, like stair and etc.

Notice: the function of pet-immunity will not work, if the distance of detector and pet is less than 1.8m.

OPERATING INSTRUCTION

Jumper setting (See Illustration Six)

1. PULSE Jumper: can adjust sensitivity and the ability of anti RF interference by choosing different Pulse jumpers.

Short 1&2: First-order pulse (Default), high sensitivity, good anti RF interference ability, suits for ordinary environment.

Short 2&3: Second-order pulse, low sensitivity, strong anti RF interference ability, suits for environment 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 the LED indicator. It will not influence the normal operation of the detector.

PRODUCT TESTING

Connecting power supply (DC12V), LED indicator flashes. The detector goes into self testing state for about 60s. When the LED indicator off, the detector enters into normal monitoring state. The tester should walk within the detection range in a direction parallel with the wall where the detector is installed. When the LED indicator lights, the detector enters into alarm state.

NOTICE

1. The detector should be installed and used properly according to Manual. If any malfunction occurs, pls contact with management center or selling agent for maintenance in time.

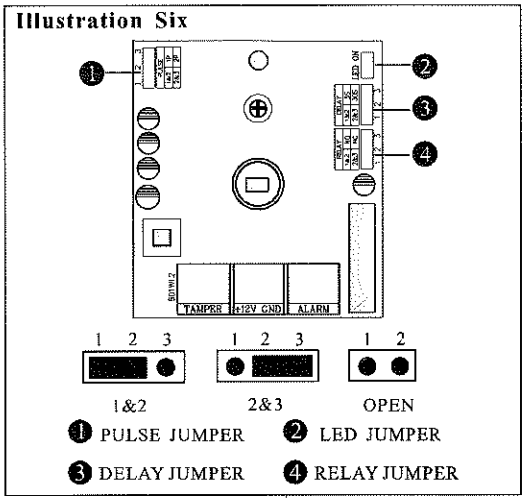
2. Do not touch the sensor surface, which may cause to decrease the sensitivity. If the sensor needs to be cleaned, please use soft cloth with little alcohol for cleaning after cutting off the power.

3. 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 in daily life and take good protections.

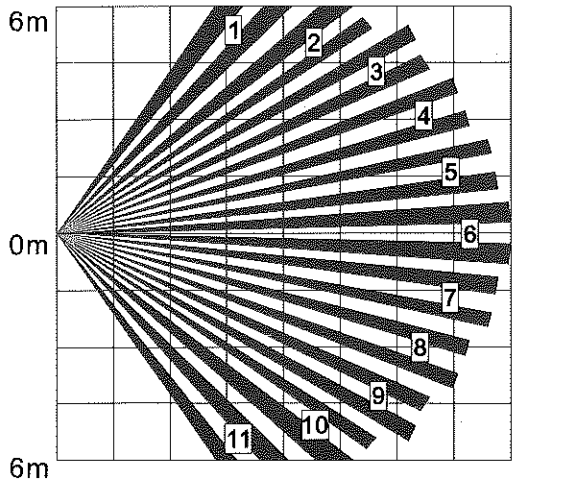
4. Constant power supply should be provided to ensure normal working of the detector. Walking test should be carried out periodically. Once a week is recommended.

JUMPER SETTING ILLUSTRATION

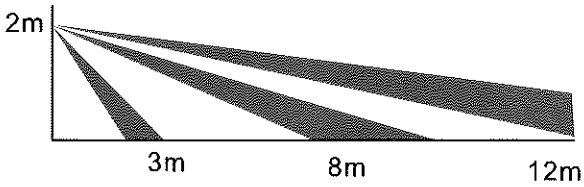
Illustration Six



DETECTION AREA ILLUSTRATION



Plantform



Side View