

MC-720T Intelligent PIR Ceiling Mounting Intrusion Detector

1. Brief Introduction

MC-720T PIR is a digital micro-processing ceiling mount detector. The PIR parts adopt Fresnel lens to increase the effect of energy-receiving. High sensitivity can be reached from the distance of 3 meter to 12 meters. It is the first option for household life and office decoration!

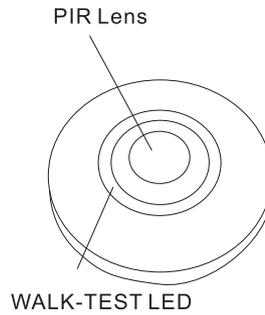


Figure 1. General View

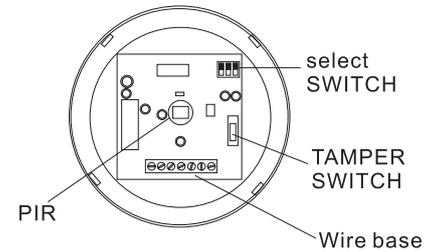


Figure 2. Inside View

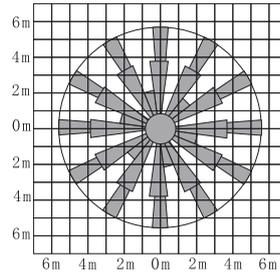
2. Specifications

Model: MC-720T
 Detection Range: Up to 12M
 Input Voltage: 9-16VDC
 Power Consumption: 15mA@ 12VDC

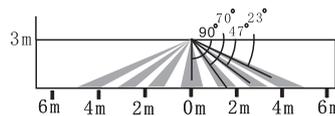
PIR (As the right Fig.)

Lens Data:
 Infrared Areas: 44+12+6+4
 Max. Coverage: 12*12m

Alarm and Tamper
 Alarm Output:
 Solid-state reply. N.C. up to 100mA/30V,
 -30Ω internal resistance.
 Circuit opens for 2-3 seconds upon alarm.
 Alarm indication:
 Indicator lights LED for open



SIDE VIEW



Detection area side view

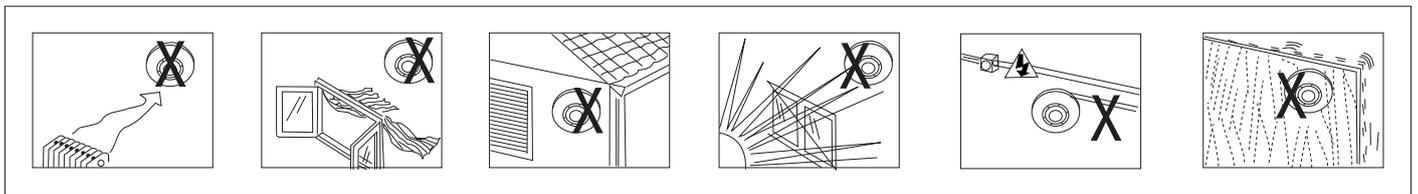
Tamper Contacts:
 N.C. 50mA resistance/30VDC

Installation:
 Ceiling surface mounting: at the height of 2.4-3.6M

Environmental:
 Operating Temperature: -10°C-50°C (14°F-122°F)
 Storage Temperature: -20°C-60°C (-4°F-140°F)
 Relative Humidity: 5%-95% (RH)
 PIR white light immunity: >6500LUX
 RF immunity: 10MHz-1000MHz (30V/m)
 Dimensions (Dia.*H): φ86*25mm

3. Installation

3.1 General Guidelines



3.2 Illustrated Installation Procedure

1. Disassemble unit

A. Press the housing to rotate the base counterclockwise to open the detector

2. Mount base
2.4~3.6m above ground

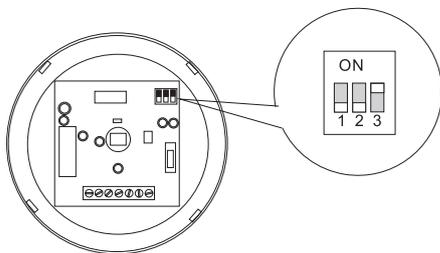
Surface mount (1 of 2)
Bracket installation

A. Mark the drilling points and drilling the wall

B. Introduce the wire from the rear slot to the base

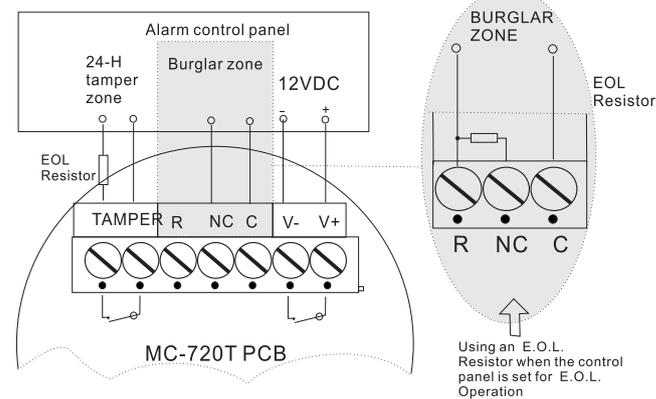
C. Insert two nails and attach the base to the wall with two screws.

3. Set jumpers as needed



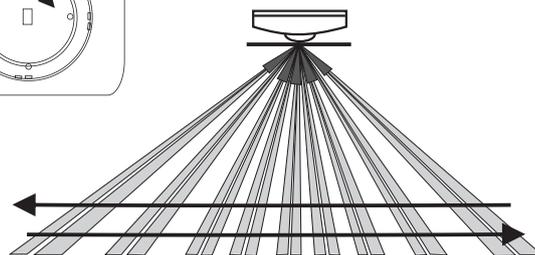
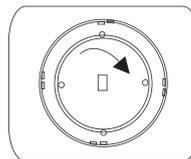
Switch 1 is normally open / normally closed selector switch, ON is normally open, OFF is normally closed.
Switch 2 is for sensitivity selection, "ON" stands for high sensitivity while "OFF" for low.
Switch 3 is for LED control, push it to "ON" starts LED while "OFF" is for closing.

4. Wire up the terminal block



4. Perform motion test to the detection area:

1. Start the test at least 2 minutes after power supply
2. Crossing to any direction of the detection area, your walking will cause the LED indicator to light for 2-3 seconds (refer to the right diagram)
3. Perform motion test from contrary directions in order to confirm the boundary of two sides. Make confirmed that detection center pointing to the center of protected area.
4. Standing at 3-6 meters away from the detector, raise arms slowly & reach it to the detection area, test the down boundary of PIR alarm & mark it. Repeat the above action to confirm the upper boundary.
5. The detecting center shall not lean to left or right. If ideal detection distance can't be reached, adjust the detection range horizontally in order to confirm the detector won't lean to the right or left.



Important mention: Motion test shall be performed at least one time each week in order to guarantee that each detector can keep excellent function.

5. Special comments

Even the most sophisticated detectors can sometimes be defeated or may fail to warn due to: DC power failure/improper connection, malicious masking of the lens, tampering with the optical system, decreased sensitivity in ambient temperatures near that of the human body and unexpected failure of a component part. The above list includes the most common reasons for failure recommended that the detector and the entire alarm system be checked weekly, to ensure proper performance.

An alarm system should not be regarded as a substitute for insurance. Home & property owners or renters should be prudent enough to continue insuring their lives & property, even though they are protected by an alarm system.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to harmful interference in residential installations. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit different from the one that supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.

WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.