

# Passive Infrared Detector

## Step 1

### Selecting a Mounting Location

Select the mounting location so that the expected motion within the area will cross the beams of the coverage pattern. To obtain the maximum detection coverage, AN700-C12 should be mounted at the height of 3.6m. Be sure to install the detector on a stable ceiling to avoid vibrations.

**Note:** Passive Infrared detectors are sensitive to changes in infrared energy caused by an object (of a different temperature than the background) moving across the unit's field of view.

To minimize undesired activations, it is highly recommended to avoid aiming the detection pattern at heaters, sources of bright light, or direct sunlight. Avoid mounting it in locations where air drafts could flow from the ceiling or from nearby walls.

## Step 2

### Opening the Detector

Insert a small screwdriver to the opening. Lower the screwdriver handle until the base separates from the cover and can be removed easily. (See figure 1)



Figure 1

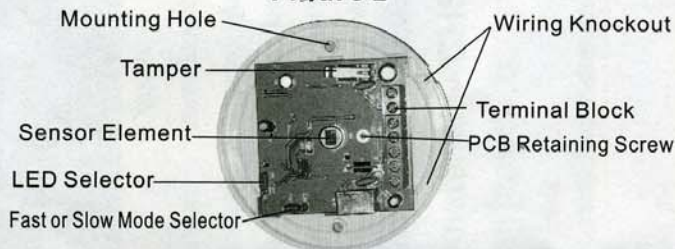
## Step 3

### Mounting

Mount the base, complete with the printed circuit board, in the selected location. Using the 2 mounting holes at the base, fasten the unit firmly to the mounting surface.

**Caution:** Do not drill through the mounting holes with the detector held in place, to avoid contaminating the unit with dust and drilled fragments.

Figure 2



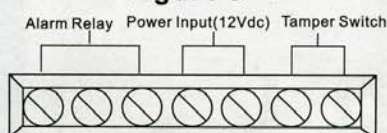
Component Layout

## Step 4

### Wiring

Punch out the wiring knockout (See figure 2), and route the wires into the detector. Connect the wires to the terminals as following showed (See Figure 3):

Figure 3



Reverse polarity will not damage the sensor.

Once all wiring and adjustments are completed, line up the three tabs on the cover with the three slots in the base. Make sure the opening is in the original position. Fit the cover over the base and press to cover the detector.

## Step 5

### Walk-test the Sensor.

Apply power and let the sensor warm up for three minutes.

**Note:** After 10 minutes of inactivity, the sensor will revert to normal (alarm) mode regardless of switch position. When any switch is toggled, the sensor will reset after 10 minutes.

Walk across the protected area at the ranges to be covered. Two to four normal steps will make the LED light up. When there is no motion in the protected area, the LED will be off.

## Step 6

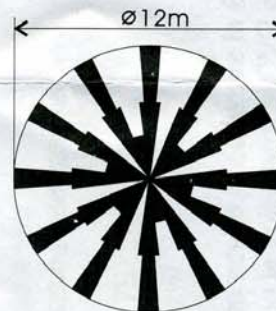
### LED Disable

To disable the diagnostic and alarm LED, you may set the LED selector to OFF. Select fast mode or slow mode as needed.

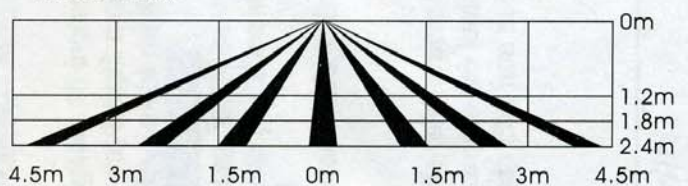
**Note:** The AN700-C12 sensor should be tested at least once each year to ensure proper operation.

### Detection Pattern

#### TOP VIEW



#### SIDE VIEW



### Product Specifications:

Model	AN700-C12
Detection Method	Passive Infrared
Detectable Coverage	12m*12m
Mounting Mode/Height	Ceiling mount/2.2~4.5m
Detection Zones	55 zones
Sensitivity	Low and High Selectable
Alarm Period	5 sec.
Alarm Output	N.C. 28V DC., 0.2A max.
Power Requirement	7.5-16VDC
Current Draw	9mA ~15mA
Tamper Switch	N.C., Opens when cover is removed.
White Light Immunity	>8000Lux
Operating Temperature	-25° C ~ +65° C
RF Interference	No Alarm 20 V/m
Environment Humidity	95% max.