

C121U

AIR CONDITION ENERGY SAVING MOTION DETECTOR SERIES

Features:

- ▶ Energy saving by turning OFF the air condition units.
- ▶ Works with split and fan coil air condition units, Based on Infra Red command signals using dedicated Air condition protocols.
- ▶ Universal study logic for any Infra Red protocol.
- ▶ Senses presence of human beings at the room at a distance of up to 8 meters.
- ▶ Optional - turning back ON the air condition units.
- ▶ Self-Adaptive Technology: Time delay continually adjusted to occupant patterns of use, in order to save battery life.
- ▶ Maximum Reliability: All digital Microcontroller based circuitry uses a minimum of components.
- ▶ Convenient Dipswitch setting Push-Button: Provides Selectable time frame of no movement - 20, 40, 60 or 90 minutes.
- ▶ Fast, Simple Installation: Fits in a standard wall installation.
- ▶ Adjustable Horizontal Field of View (PIR): May be adjusted between 0° and 110° of arc by using integral swivel bracket.



Specifications:

- Detection Method Dual element PIR Detector.
- Detection Range up to 6 m (room size 8m x 8m).
- Mounting Ceiling or Wall.
- Operation Voltage – 3 Volts – 2 Alkaline batteries size AAA.
- Infra Red protocol – All major air condition brands.
- Infra Red protocol – Universal – Study special protocols.
- Relative Humidity - 10% - 90% RH.
- Approval CE.
- Non Flammable plastic enclosure - ABS – HB.
- Detector Dimensions – 107x53x42 mm.
- Operates on 2 AAA batteries with low battery indication.

Models and ordering information:

Model: **C121-U**
Infrared Motion detector and air condition control operates on Batteries.

Model: **C121-U-12-DC**
Infrared Motion detector and air condition control operates from 12 Volts power supply.



AIR CONDITION ENERGY SAVING MOTION DETECTOR C121U

1. OPENING THE DETECTOR

Unscrew the screw at the bottom of the detector.

2. DETECTION and COVERAGE PATTERNS

The detector covers the room area and transmit the OFF and ON commands to the air condition according to the drawing.

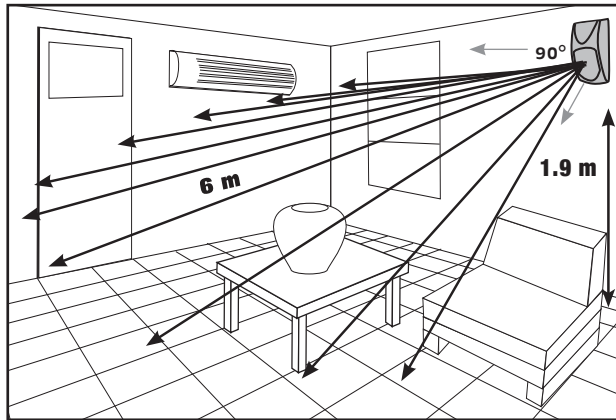
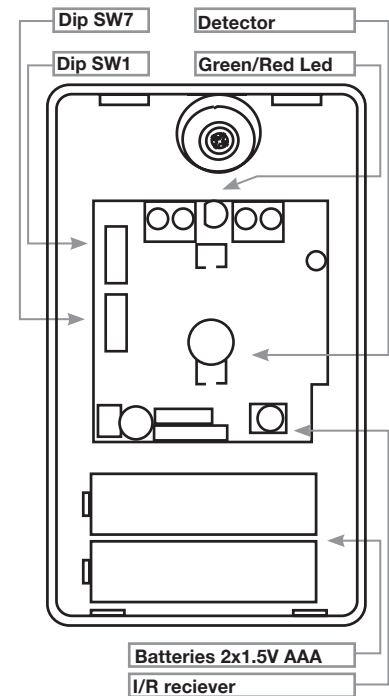


Fig. 1

3. Components placement.



4. SETTING UP THE DETECTOR

There are 8 Dip Switches to define to unit operation

Dip Sw #	Function
1	Enable Air condition Turn On function ON=Enable OFF=Disable
2 - 3	Time from last motion to sending Off command
4 - 7	Air condition type

5. Air Condition type selection:

Air condition type	SW4	SW5	SW6	SW7
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Each Air condition model has its own setting. The Dip switches setting are defined in appendix attach in to each detector box.

6. Study Mode

Do not make the study facing sun light or strong light at the room. Use the Study mode only when you can not find the air condition type at the table in Par. 7 above. Set Dip Sw's 4, 5, 6, 7 to OFF.

9.1 Study the ON command.

Press and hold the switch till the Green LED should be ON.

Use the handheld remote control and send an ON command to the detector. The green LED should turn OFF. (In case that the green LED will not turn OFF, send again the ON command and see if the green LED turn OFF. If not, take out the batteries and wait 15 seconds, then put batteries back in and start from the beginning).

9.2 Study the OFF command.

After study the ON command, press the switch short press.

The Green LED should come ON. With the handheld remote control send the OFF command. If the OFF command study succeed the Green LED will turn OFF. (In case that the green LED will not turn OFF, send again the OFF command and see if the green LED turn OFF. If not, take out the batteries and wait 15 seconds, then put batteries back in and start from the beginning). (In case that the green LED will not turn OFF, send again the OFF command and see if the green LED turn OFF. If not, take out the batteries and wait 15 seconds, then put batteries back in and start from the beginning).

7. Selecting OFF or OFF/ON commands

Select between OFF command (turn OFF the air condition only) or turn OFF and ON the air condition.

Use Dip Sw. #1 for this selection.

Dip Sw. #1 = OFF – Off command only. (Turn ON the Air Cond using the handheld remote control unit).

Dip Sw. #1 = ON – Off and ON commands are active.

8. Time frame setting

Select the time frame between the last movement at the room till an OFF command will be send to the unit. Time frame factory setting is 40 minutes

Change the time frame according to the table:

	SW2	SW3
20 minutes	OFF	OFF
40 minutes	OFF	ON
60 minutes	ON	OFF
90 minutes	ON	ON