PIR Motion Detector

Reliable and effective dual element PIR detectors for home or office security applications.It attractive and easy to install with the features to match.It has a built-in automatic temperature compensation to help eliminate false triggers in certain environments. Convex honey comb hemispherical infrared lenses are used.This feature a swivel bracket for quick position adjustment.

TYPICAL INSTALLATION

Select mounting location

Choose a location most likely to intercept an intruder.See detection pattern(Fig.5).The dual element low noise pyroelectric sensor detects motion crossing the beam,it is less sensitive detecting motion towards the detector.The performs best when provided with a constant and stable environment.

Avoid the following locations

＊Facing direct sunlight.*Facing areas subject to rapid temperature changes.*Areas with air ducts or substantial air flows.

MOUTING THE DETECTOR

1.To remove the front cover(Fig.4),unscrew the holding screw (Fig.4-7)and gently raise the front cover.
2.To remove the PC board, carefully unscrew the holding screw (Fig.4-7)located on PC board(Fig.4-7)
3.Break out the desired holes (Fig.2-B or C) for proper installation(flat or corner).
4.The circular and rectangular indentations at the bottom base are the knockout holes (Fig.2-D) for wire entry. You may also use mounting holes that are not in use for running the wiring into the detector. (For option with bracket(Fig.1&3)(Fig.4-7),lead wire through the bracket)
5.Mount the detector base to the wall, corner or ceiling.
6.Reinstall the PC board by fully tightening the holding screw. Connect wire to terminal block.
7.Replace the cover by inserting it back in the appropriate closing pins and screw in the holding screw.
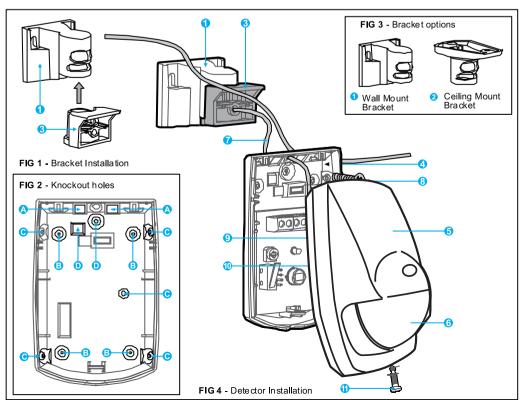
DETECTOR INSTALLATION

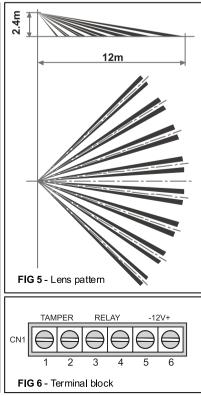**Terminal block connections**(Fig.6)
Terminal 1&2-Marked (TAMPER) If a tamper function is required connect these terminals to a 24-hour normally closed protective zone in the control unit.If the front cover of the detector is opened, and immediate alarm signal will be sent to the control unit.
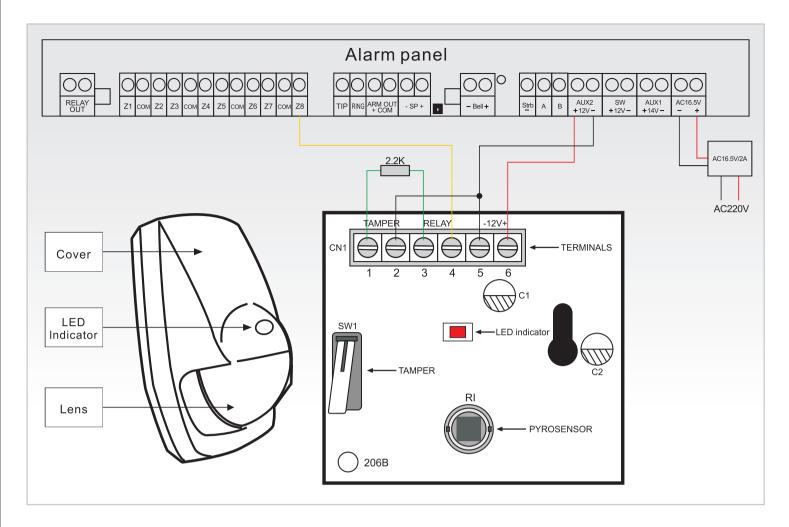**Terminals 3&4 -Marked (RELAY)** These are the output relay contacts of the detector, connect to a normally closed zone in the control panel.
Terminals 5-Marked .-.(GND) Connect to the negative voltage output or ground of the control panel.
Terminals 6-Marked.+.(+12V) Connect to the positive voltage output of 8.2-16vdc source (usually from the alarm control unit)

FIG 1 - Bracket Installation

FIG 2 - Knockout holes

FIG 3 - Bracket options

1 Wall Mount Bracket

2 Ceiling Mount Bracket

FIG 4 - Detector Installation

FIG 5 - Lens pattern

2.4m

12m

FIG 6 - Terminal block

TAMPER   RELAY   -12V+

CN1

1   2   3   4   5   6

Alarm panel

RELAY OUT | Z1 COM Z2 Z3 COM Z4 Z5 COM Z6 Z7 COM Z8 | TIP RING ARM OUT + COM | - SP + | − Bell + | Strb − A B AUX2 +12V − SW +12V − AUX1 +14V − AC16.5V − +

AC16.5V/2A

AC220V

2.2K

CN1 — TAMPER RELAY -12V+ — TERMINALS
1 2 3 4 5 6

C1

SW1

TAMPER

LED indicator

C2

RI

PYROSENSOR

206B

Cover

LED Indicator

Lens

TECHNICAL SPECIFICATION

Power input:	9-12VDC
Current Draw :	Standby:21mA(±5%) Self check :22-37mA(±5%)
	Active:16.5mA(±5%)
Temp. Compensation:	YES
Alarm Period:	3sec(±0.5sec)
Self Check Period:	10sec
Led Indicator:	LED is ON during alarm
Environment:	Temperature -10℃-70℃, Humidity 10-90%RH
RFI Protection:	30V/m 10-1000mHz
EMI Protection:	50,000V of electrical interference from lightening or power through
Detecting range:	6-10m,110°
Dimensions:	94mm*67mm*43mm
Weight:	57.5g(2.03oz)

STANDBY MODE

Wait 10 seconds-warm up time after applying 12VDC power.After 10 seconds ,the LED light off, enter standby mode.Conduct testing with the protected area cleared of all people.

WALK TEST

Remove front cover.The pulse jumper must be in position
1.The LED must be enabled.
2.Replace the front cover.
3.Start walking slowly across the detection zone.
4.Observe that the detectors LED lights whenever motion is detected.
5.Allow 5 seconds between each test for the detector to stabilize.
6.After the walk test is completed, the LED may be disabled.
Note:Walk tests should be conducted,at least once a year, to confirm proper operation and coverage of the detector.

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