

Activ8 PIR

8IR103

PIR MOTION DETECTOR

With PET IMMUNITY up to 25Kg

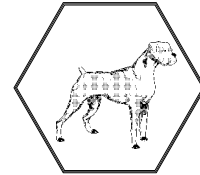
INSTALLATION INSTRUCTIONS

English

P/N 7101507 REV. B A.Y.

PRODUCT DESCRIPTION

The Activ8 PIR detector uses a special designed optical Lens with unique Quad (Four element) PIR Sensor and new ASIC based electronics optimized to eliminate false alarms, caused by small animals and Pets. The Activ8 PIR provides unprecedented levels of immunity against visible light. The Detector offers an exceptional level of detection capability and stability for every security installation. The Activ8 PIR is supplied with Wide Angle lens.



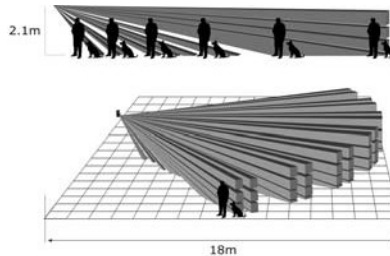
The Activ8 PIR provides Pet immunity up to 25Kg (55 lbs). For better immunity avoid installation in areas where pets can reach upwards.

Activ8 PIR FEATURES

FEATURES

- Quad Linear Imaging Technology for sharp analysis of body dimensions and differentiation from background and animals.
- New ASIC based electronics.
- Immunity to animals up to 25kg (55 lbs).
- 18m Detection Range with Wide Angle Lens.
- Temperature compensation.
- Compact Design for Residential Installation.
- Variable pulse width adjustment.
- Sensitivity adjustment.
- Environmental immunity.
- Height installation calibration free (1.8m – 2.4m).
- LED Remote function.

DETECTION PATTERN



TYPICAL INSTALLATION

SELECT MOUNTING LOCATION

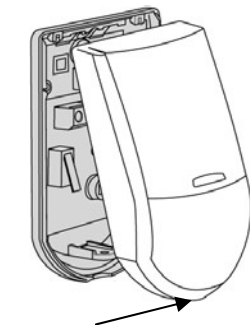
Choose a location most likely to intercept an intruder. See detection pattern. The Quad high quality sensor detects motion crossing the beam; it is less sensitive detecting motion towards the detector.

The Activ8 PIR 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.

REMOVAL OF FRONT COVER

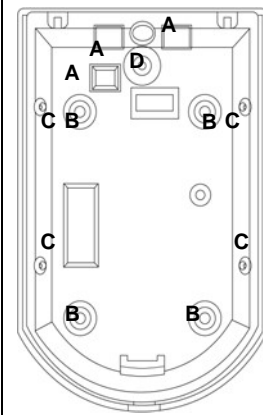


Unscrew the holding screw and open base

MOUNTING THE DETECTOR

1. To remove the front cover, unscrew the holding screw and gently raise the front cover.
2. To remove the PC board, carefully unscrew the holding screw located on the PC board.
3. Break out the desired holes for proper installation.
4. The circular and rectangular indentations at the bottom base are the knockout holes 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 - lead wire through the bracket)
5. Mount the detector base to the wall, corner or ceiling. (For option with bracket install bracket).
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.

KNOCKOUT HOLES



- A. Wire access holes
- B. Use for flat wall mounting
- C. Corner mounting - use all 4 holes. Sharp left or right angle mounting - use 2 holes (top and bottom)
- D. For bracket mounting

DETECTOR INSTALLATION

TERMINAL BLOCK CONNECTIONS

EOL TAMPER RELAY EOL +12V-



Terminals 1 & 6 - Marked EOL End of line option.

Terminals 2 & 3 - 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, an immediate alarm signal will be sent to the control unit.

Terminals 4 & 5 - Marked RELAY

These are the output relay contacts of the detector. Connect to a normally closed zone in the control panel.

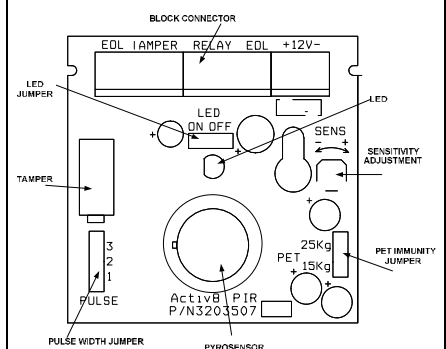
Terminal 7 - Marked + (+12V)

Connect to a positive Voltage output of 8.2 - 16Vdc source (usually from the alarm control unit)

Terminal 8 - Marked - (GND)


Connect to the negative Voltage output or ground of the control panel.

PCB LAYOUT




SETTING-UP THE DETECTOR


PULSE WIDTH JUMPER SETTING


 3 Very stable environment
 2 Jumper #1 = ON
 1 Without PET

PULSE


 3 Moderate nuisance situation
 2 Jumper #2 = ON
 1 PET up to 15 kg (33.1 lb)

PULSE


 3 Relatively high chance of false alarms
 2 Jumper #3 = ON
 1 PET up to 25 kg (55 lb)

PULSE

LED ENABLE JUMPER SETTING


LED ON OFF

LED ON

LED ON OFF

LED OFF

PET IMMUNITY JUMPER SETTING

25Kg
 15Kg

Immunity to an animal up to 15 kg

25Kg
 15Kg

Immunity to an animal up to 25 kg

PIR SENSITIVITY ADJUSTMENT

POTENTIOMETER adjustment according to protected area range.
 Use the potentiometer to adjust the detection range between 68% and 100% (factory set to 84%). Rotate the potentiometer clockwise to increase range, counter-clockwise to decrease range.

WIRE SIZE REQUIREMENTS

Use #22 AWG (0.5 mm) or wires with a larger diameter. Use the following table to determine required wire gauge (diameter) and length of wire between the detector and the control panel.

Wire Length	m	200	300	400	800
Wire Diameter	mm	.5	.75	1.0	1.5
Wire Length	ft.	800	1200	2000	3400
Wire Gauge	#	22	20	18	16

TESTING

TEST PROCEDURES

WAIT FOR ONE MINUTE OF WARM UP TIME AFTER APPLYING 12 VDC POWER. CONDUCT TESTING WITH THE PROTECTED AREA CLEARED OF ALL PEOPLE.

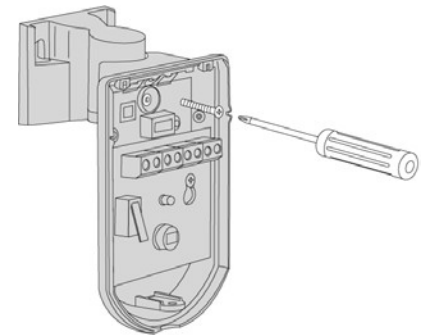
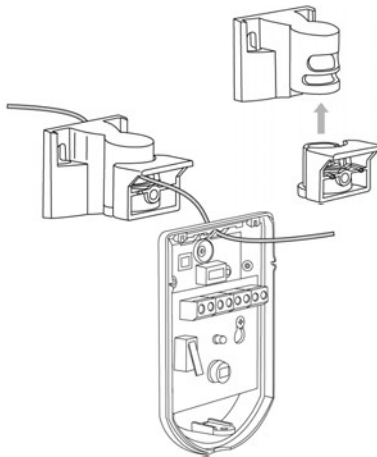
Walk test

- Remove front cover.
The pulse jumper must be in position 1. The LED must be enabled.
- Replace the front cover.
- Start walking slowly across the detection zone.
- Observe that the detector's LED lights whenever motion is detected.
- Allow 5 sec. between each test for the detector to stabilize.
- After the walk test is completed, the LED may be disabled.

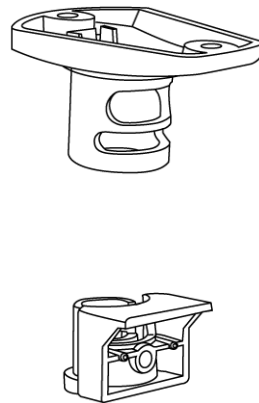
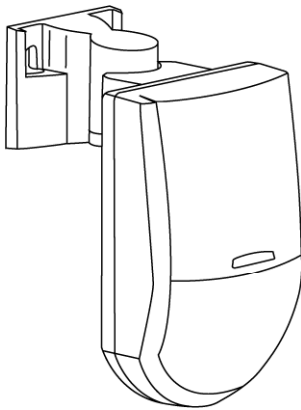
NOTE:

Walk tests should be conducted, at least once a year, to confirm proper operation and coverage of the detector.

BRACKET INSTALLATION OPTION



WALL AND CEILING INSTALLATION OPTIONS



REPLACING THE LENS

- Remove the front cover.
- Using a small flat screwdriver, press on left and right snaps of the lens and pull the lens out from its place (front cover side).
- Replace a new lens.
- Push the lens to its place by pressing again from outside of the front cover until a click is heard.
- Replace front cover.

TECHNICAL SPECIFICATION

MODEL	Activ8 PIR	
Detection Method	Quad (Four element) PIR	
Power Input	7.8 to 16 VDC	
Current Draw	Standby: 8mA (± 5%) Active: 10mA (± 5%)	
Temperature Compensation	YES	
Pulse Width	Adjustable	
Alarm Period	2 sec (± 0.5sec)	
Alarm Output	N.C 28VDC 0.1 A with 270ohm series protection resistor	
Tamper Switch	N.C 28VDC 0.1A with 10 Ohm series protection resistor - open when cover removed	is
Warm Up Period	60sec (± 5sec)	
LED Indicator	LED is ON during alarm	
Operating Temperature	-20°C to +60°C (-4°F to +140°F)	
RFI Protection	30V/m 10 - 1000MHz	
EMI Protection	50,000V of electrical interference from lightning or power through	
Dimensions	90mm x 59mm x 37mm (3.54 x 2.32 x 1.46)	
Weight	40gr (1.4oz)	

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