

# Response™

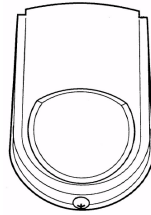
## Wired PIR Accessory Pack (PW2)

### Installation and Operating Instructions

These instructions should be read in conjunction with your System Installation and Operating Manual and be retained for future reference.

#### Features

- Low current draw.
- 12m, 110° Convex honey comb, hemispherical infra-red lens.
- Excellent false alarm suppression.
- Walk test LED.
- Compact and easy to install



#### Introduction

These Passive Infra-Red (PIR) Movement Detectors are designed for use with Response Wired Intruder Alarm systems. PIR detectors are designed to detect movement in a protected area by detecting changes in infra-red radiation levels caused for example when a person moves within or across the detectors field of vision. If movement is detected, the signal contacts "open" and an alarm signal is generated at the Control Panel (if the system is armed).

#### Note:

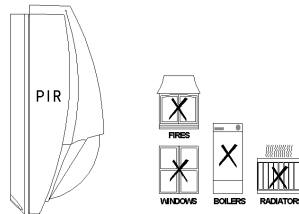
Do not exceed the maximum number of PIR detectors permissible for the Zone where the PIR is to be installed or for the system in total. These will be stated in the System Installation and Operating Manual.

These PIR are not compatible with the earlier 6 wired system, they only work with the new 2 wired system!

If you are replacing an old Wired Alarm System, it is possible to re-use the existing installed wiring for the Detector to save installation time. However ensure the cores of these existing cables are at least **26AWG**. When re-using, ensure each pair of cores are correctly marked up when connecting a detector to the Control Panel unit.

#### Mounting Location

These PIR is designed for indoor use. It should not be mounted near to large metal objects or on metal surfaces. It needs to be mounted on a wall or in a corner at a height of approximately 2-2.5 meters for the best general coverage in an average room. The detector has been designed to avoid false alarms, nevertheless, it is best to avoid looking directly at sources of heat such as fires and boilers, and always try to keep away from a window. A PIR can look at a radiator but should not be sited above one.



Do not site a PIR where its field of view may be obstructed (e.g. by curtains). Also note that PIRs work best when sensing movement across rather than along their detection beams. You need to consider the need to wire these units back to the Control Unit.

#### Mounting the detector

1. Remove and retain the screw from the bottom of the PIR and lift off the cover.
2. Carefully remove the electronic module from its retaining clips, ensuring **not to touch the pyroelectric sensor** (Illustration 1).

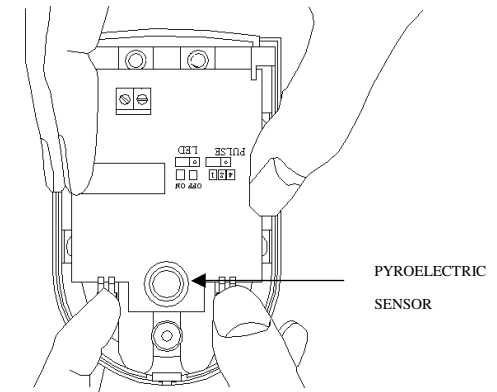


Illustration 1

3. Use mounting points "A", if you are fitting the detector in a corner. Use mounting points "B", if you are fitting the detector on a flat surface. Use a small drill to create two fixing holes at the mounting points (Illustration 2).

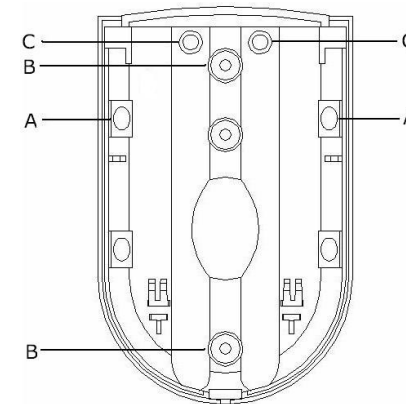
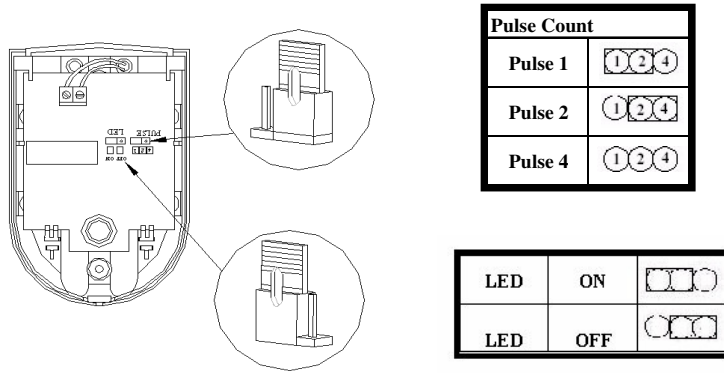


Illustration 2

4. Hold the base of the PIR in the chosen position, ensuring that the front of the PIR will face towards the center of the protected area, mark and drill two fixing holes in the wall. Choose one of the cable entry holes "C" and make a third hole in the detector base. Put one end of the wire through this hole "C", then secure the PIR to the wall.
5. Replace the electronic module into the retaining clips, ensuring that it is correctly positioned and firmly seated.

6. If required, select the PIR LED "ON" or "OFF" option and the sensitivity (pulse count) by setting the corresponding jumpers on the electronic module. Note that Pulse 1 option is more sensitive than the pulse 4 option. Pulse 1 option is used when it is necessary to activate an alarm on the first detected pulse, or in high security installations – where fast "catch" performance is of greatest importance. Pulse 2 or 4 settings provides improved protection against false alarms caused by all types of environmental disturbances. (Illustration 3)

Illustration 3



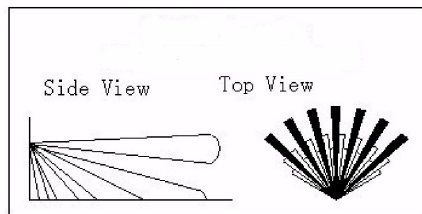
7. Connect the 2 wires to the PIR, polarity is not important.

**IMPORTANT:** Before making any connections, ensure that the existing system is fully shut down and all power, (mains and back-up battery) at the Control Panel is removed, (refer to your System Installation and Operating Manual).

#### Walk Testing

- A. Once the PIR detector has been fully installed, reconnect the power to the alarm system and test the new PIR and the system in accordance with your System Installation & Operating Manual.  
**Note:** After reconnecting the power to the system allow at least 4 minutes for any PIR(s) to stabilise before testing.
- B. Walk slowly across the field of view (in opposite directions) and observe the LED – it lights whenever you enter or exit a sensitive beam. Allow 5 seconds between each test for the unit to stabilize.
- C. After testing, the LED can be disabled to prevent unauthorized tracing of the coverage pattern. To disable the LED, remove the jumper from the left and middle pins of the LED selector (ON) and place it across the middle and right pins (OFF).

#### Lens Arrays



#### Specifications

Type	Dual Pyroelectric element with hemispherical lens and new two-wire technology
Connection	Two-Wire Technology without polarity
Housing	ABS
Adjustments	Pulse Count (1, 2 or 4)
Test LED	Selectable (on/off)
Mounting height	2-2.5m
Detection Range	Up to 12m
Operating Temperature	-5°C to +40°C

#### Disposal and Recycling

Batteries and waste electrical products should not be disposed of with household waste. Please recycle where these facilities exist. Check with your local authority or retailer for recycling advice.

#### Guarantee

Novar ED&S undertakes to replace or repair at its discretion goods (excluding non rechargeable batteries) should they become defective within 1 year solely as a result of faulty materials and workmanship.

Understandably if the product has not been installed, operated or maintained in accordance with the instructions, has not been used appropriately or if any attempt has been made to rectify, dismantle or alter the product in any way the guarantee will be invalidated.

The guarantee states Novar ED&S entire liability. It does not extend to cover consequential loss or damage or installation costs arising from the defective product. This guarantee does not in any way affect the statutory or other rights of a consumer and applies to products installed within UK and Eire only.

If an item develops a fault, the product must be returned to the point of sale with :

1. Proof of purchase.
2. A full description of the fault.

## CUSTOMER HELPLINE

**0844 736 9149**

Most issues can be solved over the phone in a few minutes. Please contact our Helpline Team on the above number for any installation and general advice regarding our products. Lines open 9.00am to 5.00pm, Monday to Friday. Calls are charged at service providers national rate.



**Novar Electrical Devices and Systems.**

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