POTTER PIR-TECT 2 Movement Detector User Guide

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Contents

Introduction

- A CCTV event trigger utilizing two independent passive infrared detectors combined in a T05 package and a microwave sensor. Both PIR sensors and the microwave have to trigger before the detector signals an alarm. This high precision, very reliable presence detector has been designed for use within CCTV installations. Programmable parameters include a pulse count feature and a choice of detection ranges from 10 to 30 metres (33 to 98ft).
- Additionally, independent front and rear tamper circuits are combined to provide volt free tamper alarm contact.
- The integral dual axis tilt sensor allows 180° of pan and 90° tilt. This increases the speed of the outdoor installation and provides incredibly accurate aiming of the detection pattern. The electronics module is acrylic coated for additional component stability. It is encased in a vandal-resistant high impact zinc alloy housing with a UV stabilized translucent front cover ensuring the sensor is impervious to and unaffected by weather conditions. Additionally, the combination of precision electronics, digital white light filter and double shielding eliminates false alarms from the sun and other visible light sources. The PIR-TECT 2 design gives a neat and professional appearance with no visible indication of the orientation of the detector head, and completely hides the wiring.

PIR-TECT QUICK INSTALLATIONt

Apply supply voltage to the unit, the blue led flashes 3 times

The detector takes approximately 2-3 minutes to settle

The walk test LED is factory set to OFF. Pressing the program button once will enable the walk test led for 5 minutes.

THE FRONT COVER MUST BE FITTED WHEN WALK TESTLNG

FACTORY SETTINGS ARE:

1. RANGE 98 FT.
2. PULSE COUNT 1
3. LED OFF

When enabled the **PIR-TECT** 2 has three LED indicators. Green

- Microwave detection

Stage 1 -Mounting the unit

- During installation the electronics must be protected against water. Trapped moisture can affect or damage the unit.

1. Using the template provided drill the wall to accept the two fixing screws, the cable entry and the tamper cup (if used). **See fig. 1 and 2.**

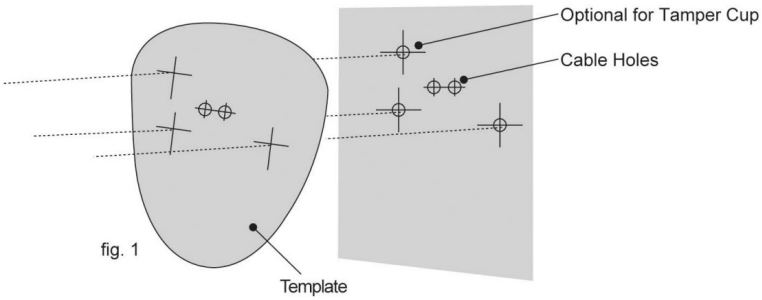


fig. 1

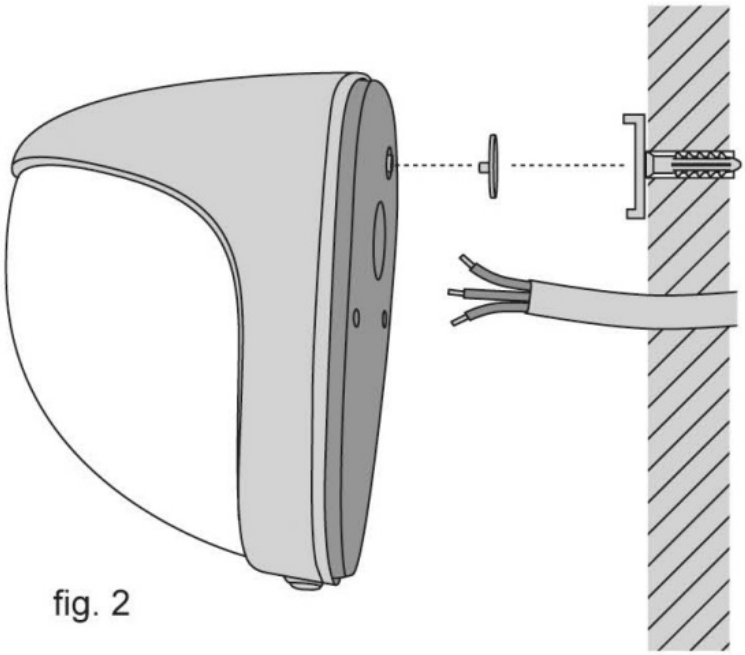
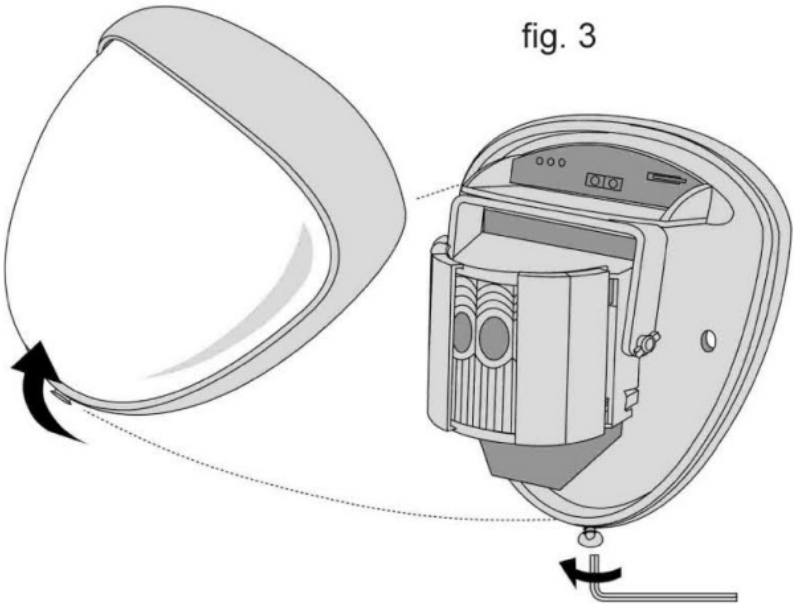


fig. 2

   Note: We recommend using the tamper cup on uneven wall surfaces.
2. Remove the cover assembly by loosening the locking screw using the alien key provided. The cover hinges from the top and lifts out of the location slot. **See fig. 3.**

fig. 3



Stage 1 – Mounting the unit (cont.)

Feed standard unshielded twisted four pair alarm cable into the cable entry; bare the wires and connect to the removable terminal block as shown in **fig. 7.** Screw the unit to the wall ensuring that the tamper pin is correctly located and that the tamper microswitch is closed. **See fig. 4** and To aid installation, two spare tamper feet are provided. One is 0.04 inches longer and the other is 0.08 inches longer than the tamper foot originally fitted. The tamper foot is a push fit and can be removed by carefully pulling it from the pin. **See fig. 2.**Always ensure when replacing the electronics module that the LED is facing forward to ensure correct alignment of the beam pattern. (Refer to section titled “Multibeam Alignment & Masking”)When the detector has been aligned to suit the installation, replace the front cover and lock as shown. **See fig. 6.**

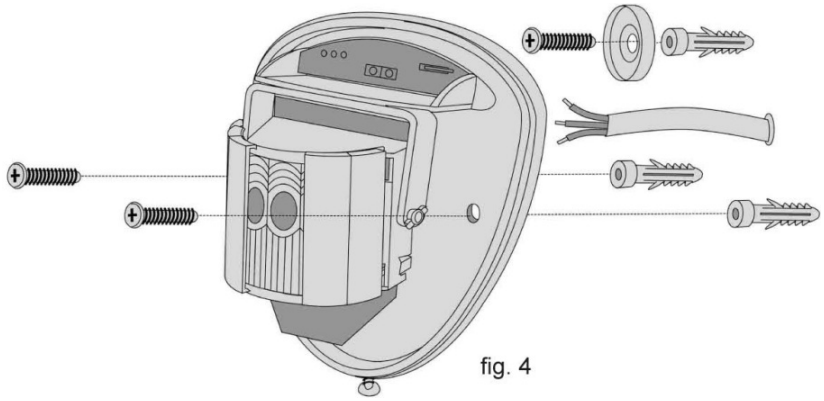


fig. 4

fig. 5

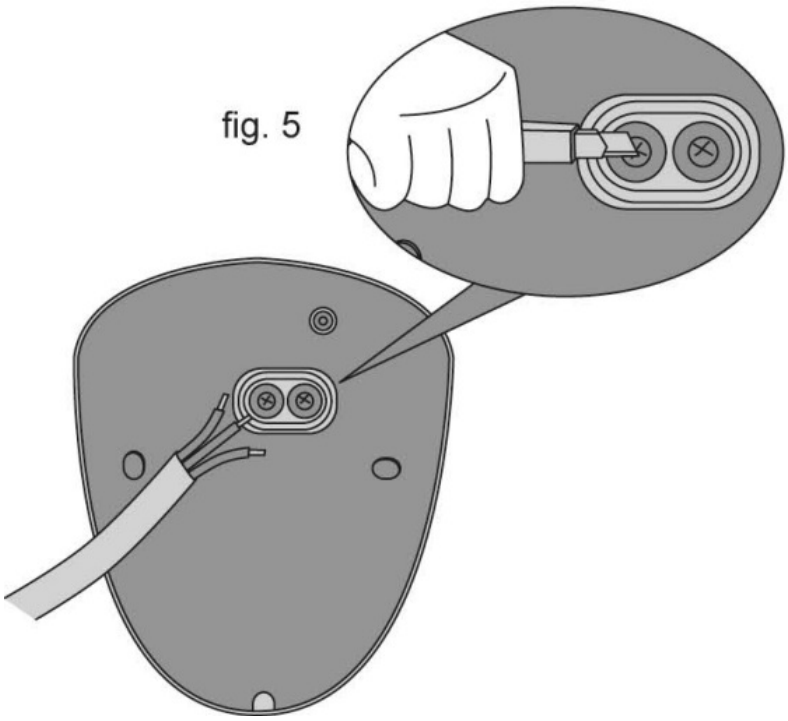
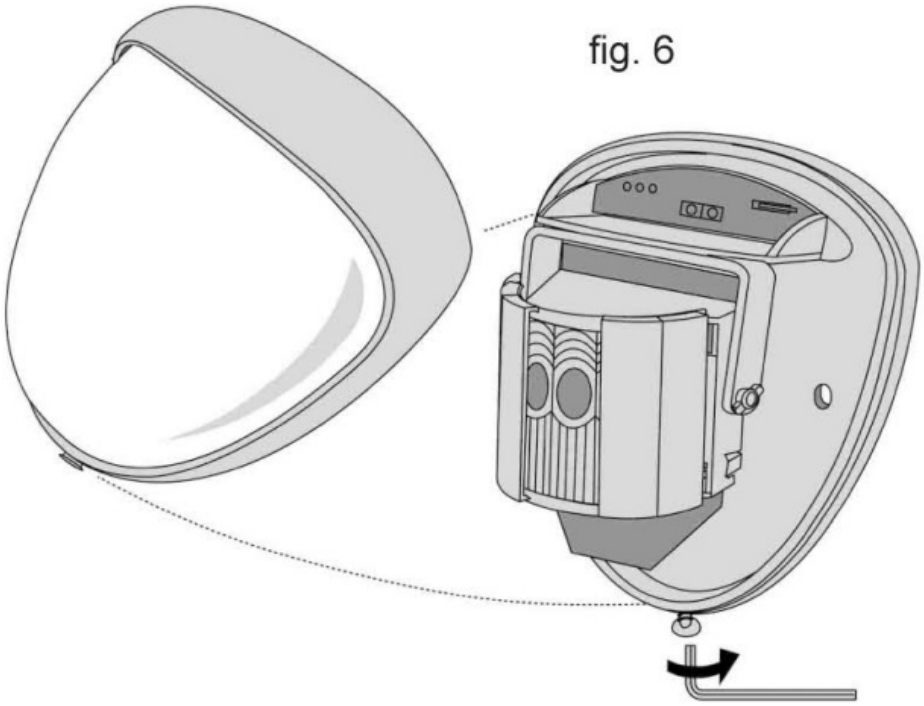


fig. 6



Stage 2 -Connecting the Unit

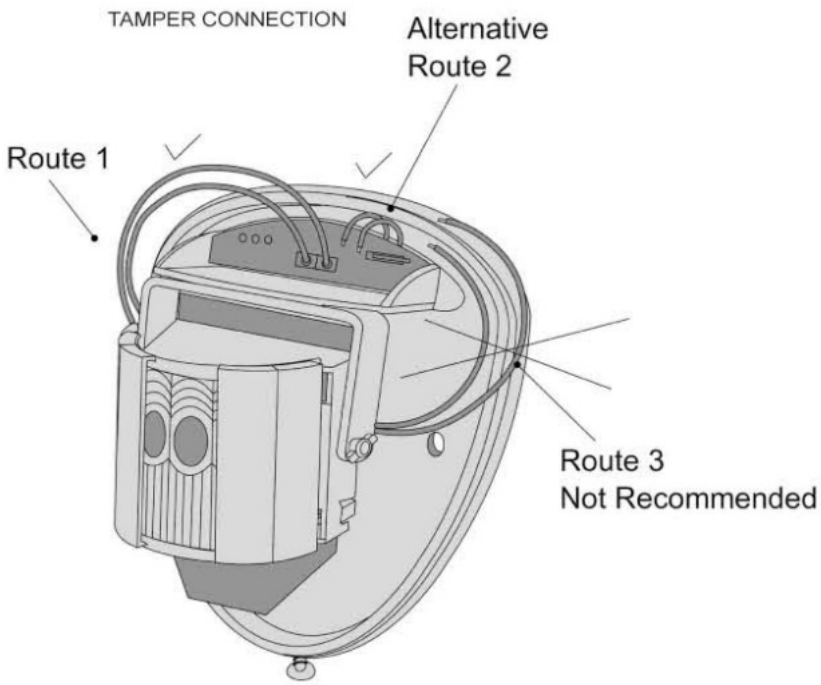


fig. 7

Stage 3 -Multi Alignment & Masking

- The multifunction lens fitted to the **PIR-TECT** 2 detector produces 7 long range beams and 7 medium to short range curtain beams. Movement across the beams produces the best response and range for the PIRs, while movement towards the detector produces the best response for the microwave sensor. The unit detects the changes in heat and movement in the beam pattern. Items such as trees, shrubs, ponds, boiler flues and animals should be considered when positioning the detector.
- The detector module is fitted with two sliding shutters to reduce the detection angle. An additional set of curtains is provided should the beam pattern need to be narrowed even further, e.g. if the minimum detection angle of 10 degrees is required. The curtains are fitted to the pan and tilt module as indicated in fig. 8 below. Each section or the detector's lens gives a coverage pattern of approximately 10 degrees. **See fig. 8.**

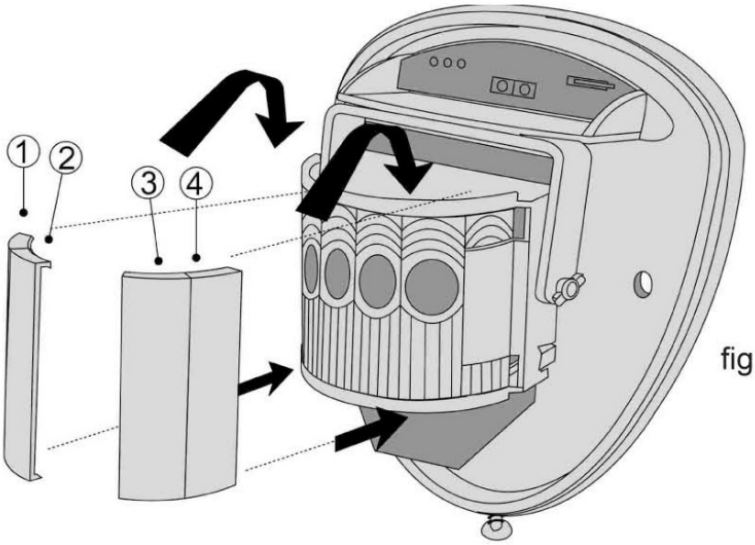
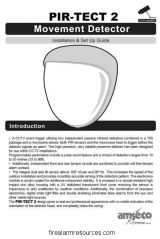


fig. 8

Documents / Resources



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PIR-TECT 2 Movement Detector, PIR-TECT 2, Movement Detector, Detector

References

- **Fire Alarm Resources | Download fire alarm documents**