1. FEATURES

- Quad element pyroelectric sensor
- Patented sophisticated motion analysis algorithm - True Motion Recognition™
- Integral swivel bracket for wall or ceiling installation
- Sealed chamber protects the optical system
- Programmable motion event counter (1, 2 or 3 events)
- Three-position vertical pattern adjustment
- Low current consumption
- Microprocessor-controlled temperature compensation
- Test input to remotely enable/disable the walk-test LED (per new European standard)
- Free terminal for connecting an E.O.L. resistor
- Snap-in pet alley mask
- White light protection
- Elegantly styled, sturdy case
- Keyhole-shaped slot for easy removal of PCB

2. SPECIFICATIONS

OPTICAL
Detection Pattern: 90° wide angle lens with 19 quad zones in 3 detection layers. Max. coverage is 15 x 15 m (50 x 50 ft).
Pet Alley: Plastic mask may be fitted internally, leaving only 9 quad zones in a single layer, with the same view angle and coverage area as above.
Adjustment: 3-position vertical adjustment scale: PET, FAR, NEAR.

ELECTRICAL
Input Voltage: 9 to 16 VDC
Current @ 12 VDC: 10 mA standby, 19 mA on alarm (LED ON)
Alarm Relay: Normally closed (fail-safe) contacts with 18-ohm resistor in series. Rating - 0.1 A resistive / 30 VDC.
Tamper Output: Normally closed contacts rated at 50 mA resistive / 30 VDC.
Alarm Period: 4 seconds.
True Motion Event Verification: 3 position selector - 1, 2 or 3 motion events.
LED Control: Walk test enabled / disabled by internal link
Detector Type: Quad element low-noise pyroelectric sensor.

MOUNTING
Height: Up to 3.6 m (12 ft)
Room Size: Up to 15 m (50 ft) in the “FAR” and “PET” positions 2 - 8 m (6 - 24 ft) in the NEAR position.
Installation Options: Surface or corner (without bracket); surface or ceiling (with bracket).
Bracket Adjustment: 20° downward, 20° left and right.

ENVIRONMENTAL
RFI Protection: >30 V/m up to 1000 MHz.
Operating Temperatures: -10°C to 50°C (14°F to 122°F).
Storage Temperatures: -20°C to 60°C (-4°F to 140°F).

PHYSICAL
Dimensions (H x W x D): 117 x 65 x 47 mm.
(4-5/8 x 2-9/16 x 1-7/8 in.).
Weight: 98 g (3.4 oz) without bracket, 113 g (4 oz) with bracket.

PATENTS
U.S. Patent No.: 5,693,943
3. INSTALLATION

3.1 Installation Hints
To minimize false alarms:

<table>
<thead>
<tr>
<th>Do not aim at heat sources</th>
<th>Mount on solid, stable surfaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not expose to air draughts</td>
<td>Do not install outdoors</td>
</tr>
<tr>
<td>Prevent direct sunlight from reaching the detector</td>
<td>Keep wiring away from electrical power cables</td>
</tr>
<tr>
<td>Do not install behind partitions</td>
<td></td>
</tr>
</tbody>
</table>

| 2.0 to 2.6 meters (6.5 to 8.5 ft) |

3.2 Mounting without Swivel Bracket

A. Remove the front cover as shown in Figure 3.

B. Loosen the vertical adjustment screw, slide the PCB down and remove it via the "keyhole" (see Figure 4).

C. Pull the PCB straight out and put it aside until required again.

D. Refer to Figure 5 and punch out the mounting knockouts at the rear wall of the base (for surface mounting) or mounting knockouts at the angled sides of the base (for corner mounting).

E. Punch out any one of the wiring knockouts shown in Figure 5.

F. Hold the base against the wall at the selected installation location and mark the points for drilling.

G. Drill the holes and insert the plastic anchors supplied (if necessary).

H. Pass the wires through the wiring inlets into the base and attach the base to the wall using the screws supplied.

I. Return the PCB to its place: align the "keyhole" with the head of the vertical adjustment screw, press the PCB against the base, slide the PCB up and temporarily tighten the screw.

J. Proceed to wire the terminal block as instructed in Para. 3.5.

3.3 Mounting with Swivel Bracket

A. Remove the front cover as shown in Figure 3.

B. Remove the PCB (see Figure 4) and put it temporarily aside.

C. Punch out the large knockout in the round bulge at the top part of the base (see Figure 6).

D. Assemble the bracket as shown in Figure 6.

E. Rotate the bracket to the desired position (see Figure 7) but do not yet tighten the screw fully.
F. Punch out the selected wiring knockouts in the bracket (see Figure 8).

G. Press the bracket against the mounting surface and mark the points for drilling. Drill out the holes and insert plastic anchors.

H. Route the cable through the bracket and into the detector as shown in Figure 9.

I. Attach the bracket to the mounting surface using the two screws supplied.

J. Tilt down or swivel the detector to face the desired direction. Figure 10 shows the tilt/swivel possibilities.

Notes:
1. Once the detector is tilted as required, tighten the bracket assembly screw strongly, to prevent any further change of position.
2. With the detector tilted down, the side view patterns shown in Figure 15 do not apply. The actual coverage must be tested very carefully.

3.4 Using the Pet Alley Mask
If the presence of pets is expected within the protected site, proceed as follows:
A. Separate the lens retainer from the front cover, as shown in Figure 11.
B. Push the prefabricated plastic mask into place within the lens retainer, as shown in Figure 12.
C. Remount the lens retainer within the front cover.

3.5 Wiring
The terminal block wiring shown in Figure 13 is self explanatory.
Note: The E.O.L. terminal is simply a connection point for an E.O.L. resistor, if the circuit requires one.

3.6 Setting the Motion Event Counter
The location of the motion event jumper is shown in Figure 5. Refer to Figure 14 below and mount the jumper as desired.
3.7 Vertical Adjustment

Refer to Figure 15. Slacken the vertical adjustment screw and slide the printed circuit board up or down to obtain the desired coverage. When done, tighten the screw well.

<table>
<thead>
<tr>
<th>SCALE POSITION</th>
<th>RESULTANT PATTERN</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON Position</td>
<td>OFF Position</td>
</tr>
<tr>
<td>NEAR</td>
<td>FAR</td>
</tr>
<tr>
<td>2.0 - 2.6 m (6.5 - 8.5 ft)</td>
<td>8.0 - 15 m (24 - 50 ft)</td>
</tr>
<tr>
<td>2.3 m (7.8 ft)</td>
<td>8.0 m (24 ft)</td>
</tr>
<tr>
<td>ON Position</td>
<td>OFF Position</td>
</tr>
<tr>
<td>NEAR</td>
<td>FAR</td>
</tr>
<tr>
<td>2.0 - 2.6 m (6.5 - 8.5 ft)</td>
<td>3.8 m (10 - 24 ft)</td>
</tr>
<tr>
<td>2.3 m (7.8 ft)</td>
<td>8.0 m (24 ft)</td>
</tr>
</tbody>
</table>

Figure 15. Vertical Adjustment

3.8 Setting the LED Control Jumper

ON Position: Setting the jumper as shown will enable the LED, allowing you to walk test the detector.

OFF Position: Setting the jumper as shown will disable the walk-test LED.

The digital circuit of this device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Re-orient or re-locate the receiving antenna.
- Increase the distance between the device and the receiver.
- Re-orient or re-locate the receiving antenna.

Note: To assure proper function of the detector, the range and coverage area should be checked at least twice a year. Furthermore, the user should be instructed to perform a walk test at the far end of the coverage pattern to assure an alarm signal prior to each time the alarm system is armed.

WARRANTY

Visonic Limited (the "Manufacturer") warrants this product only (the "Product") to the original purchaser only (the "Purchaser") against defective workmanship and materials under normal use of the Product for a period of twelve (12) months from the date of shipment by the Manufacturer. This Warranty is absolutely conditional upon the Product having been properly installed, maintained, and operated under conditions of normal use in accordance with the Manufacturers recommended installation and operation instructions. Products which have become defective for any other reason, according to the Manufacturers discretion, such as improper installation, failure to follow recommended installation and operational instructions, neglect, willful damage, misuse or vandalism, accidental damage, alteration or tampering, or repair by anyone other than the manufacturer, are not covered by this Warranty. The manufacturer does not represent that this Product may not be compromised or circumvented or that the Product will prevent any death or personal injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will prevent any death and/or personal injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will prevent any death and/or personal injury and/or damage to property resulting from burglary, robbery, fire or otherwise. The manufacturer shall not extend the original Warranty period. The Manufacturer shall not be responsible for dismantling and/or reinstallation costs. To exercise this Warranty the Product must be returned to the Manufacturer freight pre-paid and insured. All freight and insurance costs are the responsibility of the Purchaser and are not included in this Warranty. The Manufacturers obligations under this Warranty are limited solely to repair and/or replace at the Manufacturers option, except for products covered under the Manufacturers obligation to repair or replace under the terms of this Warranty, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer. This Warranty in addition to and does not affect your legal rights. Any provision in this warranty which is contrary to the Law in the state or country in which the Purchaser is located shall not apply except to the extent that this warranty is prohibited by the Law in such state or country. The Manufacturer shall be under no liability whatsoever arising out of the corruption of malfunctioning of any telecommunications or electronic equipment or any programs. The Manufacturers obligations under this Warranty are limited solely to repair and/or replace at the Manufacturers option, except for products covered under the Manufacturers obligation to repair or replace under the terms of this Warranty, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer. This Warranty in addition to and does not affect your legal rights. Any provision in this warranty which is contrary to the Law in the state or country in which the Purchaser is located shall not apply except to the extent that this warranty is prohibited by the Law in such state or country. WEEE Product Recycling Declaration For information regarding the recycling of this product you must contact the company from which you originally purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste. Directive 2002/96/EC Waste Electrical and Electronic Equipment. For information regarding the recycling of this product you must contact the company from which you originally purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste.