1. FEATURES

- Integral swivel bracket for wall or ceiling installation
- Sealed chamber protects the optical system
- Programmable pulse counter (1, 2 or 3 pulses)
- Three-position vertical adjustment
- Low current consumption
- Temperature compensation
- Terminal for connecting an E.O.L. resistor
- TEST input to remotely enable/disable the walk-test LED
- 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 38 beams 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 18 beams in a single layer, with the same view angle and coverage area as above.
Adjustment: 3-position vertical adjustment scale: PET, FAR and NEAR.

Electrical
Input Voltage: 9 to 16 VDC
Current @ 12 VDC:
- 10 mA standby,
- 18 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: 2-3 seconds.
Pulse Counter: 3 position selector - 1, 2 or 3 pulse operation.
LED Control: Walk test enabled / disabled by internal link
Detector Type: Dual 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.
3. INSTALLATION

3.1 Installation Hints
To minimize false alarms:

- Do not aim at heat sources
- Mount on solid, stable surfaces
- Do not expose to air draughts
- Do not install outdoors
- Prevent direct sunlight from reaching the detector
- Keep wiring away from electrical power cables
- Do not install behind partitions

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 dowels 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 base against the mounting surface and mark the points for drilling. Drill out the holes and insert plastic dowels.

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 with the detector.

J. Tilt the detector down or swivel it so that it faces the desired direction. Figure 10 demonstrates the various tilt/swivel possibilities.

3.4 Using the Pet Alley Mask

If the presence of pets is expected within the protected space, install the pet alley mask 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.

3.6 Setting the Pulse Counter

The location of the pulse count selector is indicated 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.
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.

**Note:** The TST terminal may be used while the LED jumper is set to OFF for remote control of the walk-test LED without removing the detector's front cover:

- Applying +12 VDC to the TST terminal through an external switch will enable the LED.
- Disconnecting the +12 VDC from the TST terminal will disable the LED.

**IMPORTANT!** After walk testing, disable the LED to prevent unauthorized people from tracing the detector’s coverage pattern.

### 4. WALK TESTING

A. Set the pulse counter jumper, set the vertical angle and enable the LED as instructed in Paragraphs 3.6, 3.7 and 3.8, respectively.

B. Remount the cover back in its place and fasten the case closure screw.

C. Walk across the detector’s field of view at various distances from the detector, and verify proper detection throughout the detector’s coverage area (the red LED will illuminate for several seconds each time your motion is detected).

**Note:** If the LED is disabled, you may use the control panel’s visual and audible indicators to verify proper function of the detector.

**Attention!** 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.

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**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 Manufacturer’s recommended installation and operation instructions. Products which become defective for any reason other than, according to the Manufacturer’s 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 and/or circumvented or unauthorized people from tracing the detector’s coverage pattern.

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**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, you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste.