1. INTRODUCTION

The DISC-ET is a ceiling mounted energy management PIR sensor for lighting control. Its main purpose is to save energy by switching lights on upon detection of movement within its coverage area. When movement in the area ceases, the lights remain on for a predetermined duration, and are then switched off automatically.

The detector is equipped with an adjustable operation timer, which causes the output relay to drop out at the end of a selected duration (provided that no further movement is detected by the PIR sensor).

The DISC-ET is physically and optically similar to the DISC, which is the smallest 360° ceiling mounted PIR presently marketed. When installed on a 3.6 m (12 ft) ceiling, the DISC-ET provides a nearly conical pattern, with a maximum diameter of 10.8 m (36 ft).

The DISC-ET operates from both DC and AC inputs.

2. SPECIFICATIONS

2.1 Coverage Pattern

When viewed from detector to floor, the coverage pattern at floor level is approximately three times the mounting height (see Figure 1).

![Figure 1. Coverage Pattern](image)

2.2 Technical Data

OPTICAL
Detection Pattern: A virtually conical pattern of 36 ft (10.8 m) diameter, if installed at the height of 12 ft (3.6 m).

ELECTRICAL
Input Voltage: 9 - 16 VDC or 12 VAC
Current Drain: 6 mA max. (standby), 45 mA max. (relay energized) @ 12VDC.
Relay Output: Form C contacts (normally open, normally closed), rated 1A resistive/30 VDC.
Relay Operation Timer: Adjustable, 3 seconds to 18-20 minutes.
LED: Walk Test - (switchable).
Detector: Dual-element low-noise pyroelectric sensor.

MOUNTING
Ceiling Mounting; Maximum Height – 12 ft (3.6 m).

ENVIRONMENTAL
Operating Temp.: -10°C to 50°C (14°F to 122°F).
Storage Temp.: -20°C to 60°C (-4°F to 140°F).
RFI Protection: Greater than 10 V/m to 1000 MHz.

PHYSICAL
Dimensions: 8.6 x 2.4 cm (3.4 x 0.95 in.).
Weight: 64 g (2 oz).
Color: White.

3. INSTALLATION

3.1 Selecting a Mounting Location

Select the mounting location so that the expected motion within the area will cross the beams of the coverage pattern. DISC-ET units can be mounted at the maximum height of 3.6 m (12 ft). Be sure to install the detector on a stable ceiling, to avoid vibrations.

**NOTE:** Passive infrared detectors are sensitive to changes in infrared energy caused by an object (of a different temperature than the background) moving across the unit's field of view.

The DISC-ET is extremely immune to air turbulence and RF interference. However, to minimize undesired activations, it is highly recommended to avoid aiming the detection pattern at heaters, sources of bright light, or direct sunlight. Avoid mounting the DISC-ET in locations where air drafts could flow from the ceiling or from nearby walls. Also avoid running wiring close to high-power electrical cables.

3.2 Mounting

A. Hold the base with one hand as shown in Figure 2. Rotate the cover counterclockwise with the other hand, until it stops. Separate the cover from the base, and put it in a safe place, to avoid accidental damage.

**Note:** If the cover does not separate easily from the base, insert a 1/8" screwdriver between a tab (on the cover) and a slot (on the base). Lower the screwdriver handle until the base separates from the cover and can be removed easily.
B. Mount the base, complete with the printed circuit board, in the selected location. Using the 2 mounting holes at the base, fasten the unit firmly to the mounting surface to avoid possible vibrations.

**Caution:** Do not drill through the mounting holes with the detector held in place, to avoid contaminating the unit with dust and drilled fragments.

C. Once all wiring and adjustments are completed (Sections 3.3 and 3.4), line up the three tabs on the cover with the three slots in the base. Fit the cover over the base, and rotate the cover clockwise until it stops (Fig. 3).

### 3.3 Wiring

Punch out the wiring knockout (see Fig. 4) and route the wires into the detector. Connect wires to the terminal block in the following order (see Fig. 5).

**Note:** Field wiring should be made with copper conductors only.

![Figure 2. Removing the Cover](image)

![Figure 3. Installing the Cover](image)

![Figure 4. Component Layout](image)

![Figure 5. Terminal Block](image)

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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 Manufacturers recommended installation and operational 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, wilful 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 that the Product, properly installed and maintained, only reduces the risk of such events without warning and it is not a guarantee or insurance of fire or otherwise, or that the Product will in all cases provide adequate warning or protection. The Product, properly installed, maintained and operated, as aforesaid, 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 prepaid 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, at no cost to the Purchaser. No refund shall be granted. The Manufacturers maximum liability (if any) shall not in any case exceed the purchase price of the Product, which shall be paid as fixed liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturers.

This warranty shall not be modified, varied or extended, and the Manufacturer does not authorize any person to vary or extend this Warranty.

The Manufacturer shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function.

However, if the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty, the MANUFACTURER’S MAXIMUM LIABILITY (IF ANY) SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT, 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 shall be modified, varied or extended, and the Manufacturer does not authorize any person to act on its behalf in the modification, variation or extension of this warranty. This warranty shall apply to the Product only. All products, accessories or attachments of others in conjunction with the Product, including batteries, shall be covered solely by their own warranty, if any. The Manufacturer shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, caused by the malfunction of the Product due to products, accessories, or attachments of others, including batteries, in conjunction with the Products. This Warranty is exclusive to the original Purchaser and is not assignable.

This Warranty is 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 where the Product is supplied shall not apply.

**Warnings:** The user must follow the Manufacturers installation and operational instructions including testing the Product and its whole system at least once a week and to take all necessary precautions for his/her safety and the protection of his/her property.

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**W.E.E.E. 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.


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**Visonic**

**INTERNET:** www.visonic.com  ©VISONIC LTD. 2014 DISC-ET DE1706- (REV. 4, 7/14)

**Environmental Information:**

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.