

DOUBLE-TEC

Dual - Technology
PIR & Microwave Motion Detector
with Anti - masking



MAXIMUM Security (1984) Ltd.

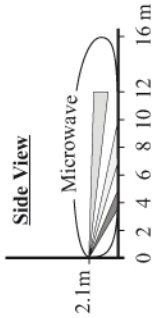
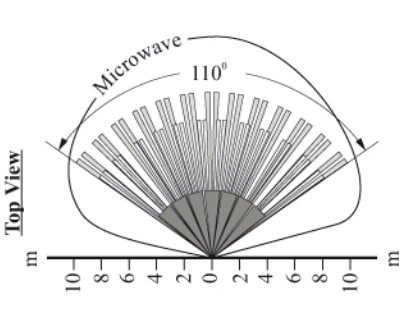
“MAXIMUM HOUSE” at Tzomet Savyon
201 Levy Eshkol Road, Kiryat-Ono, ISRAEL
Phone: ++972-3-634 9853 Fax: ++972-3-634 9775
E-mail: rubin@maximum.co.il
Web site: <http://www.maximum.co.il>

FEATURES

- Dual-technology, PIR + Microwave
- Anti-masking by active Microwave scan
- Adjustable Microwave and PIR sensitivity
- Selectable detection technology combination
- A/D Microprocessor controlled
- Automatic temperature compensation
- Automatic adaptation to background noise
- Memory latched input
- Circuit protective cover
- Dust-free interchangeable lens
- Two indication LEDs:

Green=Microwave; Red=PIR

DETECTION PATTERN



ADJUSTMENTS

Microwave Sensitivity	LEDs	PIR Sensitivity	Detection method
<div><div></div><div>HIGH</div><div></div><div>LOW</div></div>	ON	HIGH	Microwave & PIR "OR" Microwave only
	OFF	LOW	Microwave "AND" PIR
	1	2	3

ADJUSTMENTS HINTS

- Set the microwave sensitivity level by performing a walk test and set it for a detection range of no more than 16 meters.
- High PIR sensitivity level to be adjusted in a sealed room **ONLY** !

INSTALLATION

SELECT LOCATION

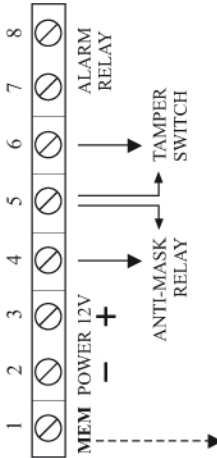
- **Open the detector case:**
 - ☐ Turn it upside-down.
 - ☐ Hold the detector with two hands.
 - ☐ With one thumb press the bottom of the front cover and pull out the back cover with the other hand.
- **Take out the internal unit:**
 - ☐ With one hand, hold well two scale ends. With the other press outward the internal side of the wall, at this moment take out the internal unit with the hand holding the scale ends and set it aside.
 - With a screwdriver punch out one (of two) cable entry holes on the back cover (according the wire gauge).
- Determine the mounting position and cable routing. Choose a mounting height to fit the application (generally 1.90 to 2.40 meter).
- Punch out the mounting hole covers on the back cover and mount it to the wall with four screws.
- Run the cable through the hole and wire it.

INSTALLING & WIRING

SELECT LOCATION

- **Open the detector case:**
 - ☐ Turn it upside-down.
 - ☐ Hold the detector with two hands.
 - ☐ With one thumb press the bottom of the front cover and pull out the back cover with the other hand.
- **Take out the internal unit:**
 - ☐ With one hand, hold well two scale ends. With the other press outward the internal side of the wall, at this moment take out the internal unit with the hand holding the scale ends and set it aside.
 - With a screwdriver punch out one (of two) cable entry holes on the back cover (according the wire gauge).
- Determine the mounting position and cable routing. Choose a mounting height to fit the application (generally 1.90 to 2.40 meter).
- Punch out the mounting hole covers on the back cover and mount it to the wall with four screws.
- Run the cable through the hole and wire it.

TERMINAL BLOCK WIRING



“MEM” terminal to be used if you wish to get a report from the detector's memory, whether it has detected human movement during the armed period.

This terminal supposed to get indication from the alarm system's control panel, whether it is in Armed or Disarmed state.

If 0V received, the detector "understands" that the alarm system is Disarmed.

If 12V or no voltage at all received, the detector "understands" that the alarm system is Armed.

How to draw and display the detector's memory?

If: the detector has alerted during the "armed" period, Than: upon switching the alarm system from "Armed" to "Disarmed", the Red LED will be activated for 5 minutes.

NOTES

herein or to extend this warranty to anyone other than the original purchaser of the products.

This warranty does not cover any damage caused by natural disaster, misuse, improper installation or use and installation in violation of manufacturer instructions.

Manufacturer is not responsible for any direct or indirect damage caused by use or rely on its products.

As with any electronic instrument, this instrument also may be neutralized maliciously, likewise may be influenced by external factors like: lightning, electromagnetic interference etc.

There may be unique substances which are to be not detected as "Masking".

The installer/user must to check whether this detector meets his/her requirements.

This detector should be tested in the field on a weekly basis.

The installer/user of this product read and understood the warranty conditions and is given his/her agreement to them upon installing and/or use this product.

INTRODUCTION

- **DOUBLE-TEC.** combines two detection technologies, Microwave and Passive Infrared, in a single small product.
- Before **DOUBLE-TEC.** gives an alarm, it verifies the intrusion by means of both technologies, thus eliminating absolutely the problem of false alarms!!!
- By using this technique, a high sensitivity level may be adjusted in both detection technologies without the need of pulse count.
- ☐ Facing sunlight or source which can change temperature rapidly.
- ☐ Facing direct sunlight.
- ☐ Areas with air ducts or substantial air currents.
- ☐ Outdoors.
- ☐ Near oven/heater/airconditioner or any device that emits heat or cold.
- ☐ Near electrical wires/conductors.

WIRING REQUIREMENTS

Use #22 AWG or larger wires.

Power wires should not exceed the following length:

Wiring Gauge	22	20	18	16
Wiring Lrngth	200m	300m	500m	850m

WARRANTY

Manufacturer warrants this product against defects in material (conditioned to the components supplier warranty) and workmanship for a period of one year from the date of purchase.

This warranty is limited to the repair or replacement, at manufacturer's opinion, of products found to be defective as result of normal use during this period.

This warranty is extended to the original purchase only. Manufacturer, distributor, reseller and agent liability is limited to the original purchase price and no payment will be made for related consequential loss, including but not limited to labor costs incurred in inspection, replacement or repair of defective products.

THIS WARRANTY IS GIVEN EXPRESSLY AND IN PLACE OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE AND THIS WARRANTY IS THE ONLY WARRANTY MADE BY MANUFACTURER.

No agent, representative or employee of manufacturer is authorized to waive, alter or add to this warranty, to make any representation or warranty not contained