

- [Dual Technology](#): PIR sensors plus Microwave sensor.
- Adjustable pet immunity/creep zone detection sensitivity.
- Anti-masking.
- Anti-vandalism sensor, Shock & Vibration sensor (Option).
- Waterproof and all-resistant.
- Auto temperature compensation.
- Multi-directional Mounting BRACKET (Obtained separately).



INTRODUCTION

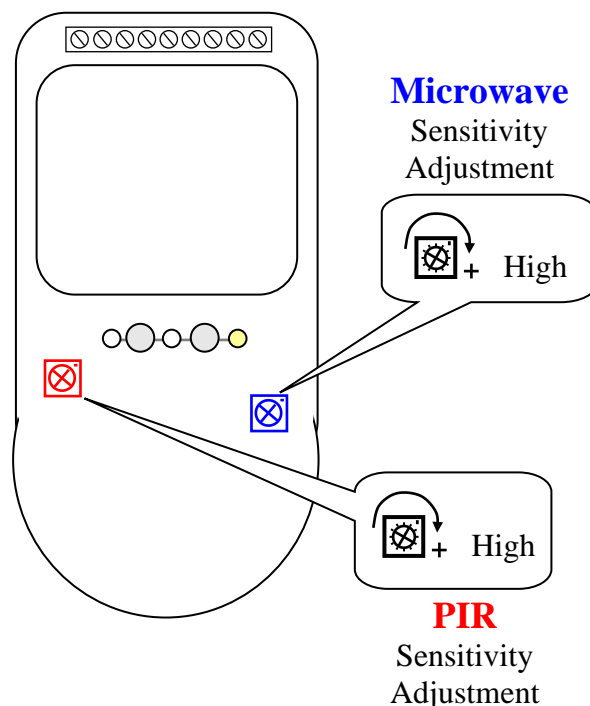
OUT-LOOK detector provides highly reliable movement detection and ensures excellent protection against any attempt to disable its operation by blocking (masking) its near field-of-view or when the detector has been covered, whether the alarm system is Armed or Disarmed (“Anti-masking”).

OUT-LOOK detector equipped with two lenses. One lens in its front while the other is at its lower part. By adjusting the lower lens internal mechanism, it is possible to set the pet immunity (creep zone) detection sensitivity.

DIP SWITCH SETTING

#1	LEDs	OFF <input type="checkbox"/> ON <input checked="" type="checkbox"/> After 15 minutes
#2	Pulse Count	4 <input checked="" type="checkbox"/> 2 <input type="checkbox"/>
#3	Anti-masking Sensitivity and Learning, and Detection Technology Combination	Low <input checked="" type="checkbox"/> High <input type="checkbox"/> AND OR
#4	Detection Range Setting	Physical setting, by Trimmers <input checked="" type="checkbox"/> Setting by "Walk Test" <input type="checkbox"/>
#5	Auto Night Detection mode	OFF <input checked="" type="checkbox"/> ON <input type="checkbox"/>

Microwave and PIR sensitivity adjustment



DIP Switch Specifications

DIP Switch #1, LED indication: ON or OFF (when switching to OFF, the LED indication will be enabled for 15 minutes- in order to allow "walk test").

DIP Switch #2, Pulse Count: Select between 2 or 4 pulses.

Choose 2 pulses in a place with a low risk to false alarm.
Choose 4 pulses in a place with a high risk to false alarm.

DIP Switch #3, Anti-masking Sensitivity and Learning, and Detection Technology Combination:

a. Select between LOW and HIGH Anti-masking Sensitivity.

Choose **LOW** Anti-masking Sensitivity in a place suffering of dust.

Choose **HIGH** Anti-masking Sensitivity in a place that doesn't suffering of dust.

b. **Learning**: Once the state of the DIP switch is changed, OUT-LOOK learns the environmental conditions of its protected area (refer to page No.6).

c. Select **AND** if you wish a true alarm will be generated just when the intrusion is detected by both detection technologies (PIR **AND** Microwave).

Select **OR** if you wish a true alarm will be generated when the intrusion is detected by one of two detection technologies (PIR **OR** Microwave).

Remark: the detection technology combination **OR** is valid just when OUT-LOOK detected that its near field-of-view is masked/covered (Anti-masking). Otherwise, the detection technology combination is **AND**.

DIP Switch #4, Detection Range Setting.

There are two ways to set the detection range:

- a. Physical setting by the Trimmers**, allows you to set the detection range manually- by the described above PIR and Microwave Trimmers.
- b. Setting by a "Walk Test"**, allows you to set the detection range automatically- by moving in the protected area ("Walk test"). Valid just if the required detection range is above 3 meters.

The adjustment of the PIR and Microwave Trimmers must be carried out before the **Setting by a "Walk Test"**.

Here is how to set the detection range automatically, by a "Walk Test":

1. Once you move DIP switch No. 4 from OFF to ON position, the **Red**, **Green** and **Orange** LED indicators will glow.
2. Close the detector's case immediately and go to the most distant point of the desired detection range (Not over the detector's maximum detection range limitations!) and wait there, for a few seconds, until the **Green** LED will glow alone.
3. Once the **Green** LED glows (alone), you should define the detection range borders by walking parallel to the detector's front to the most distant points of the desired detection range, while obey these easy instructions provided by detector's LED indicators:

Green → Walk!

Red → Stop!

That "Walk/Stop" procedure will repeat 4 times.

5. As an indication for the end of procedure, the **Green** and **Red** LED indicators will glow for 8 seconds.

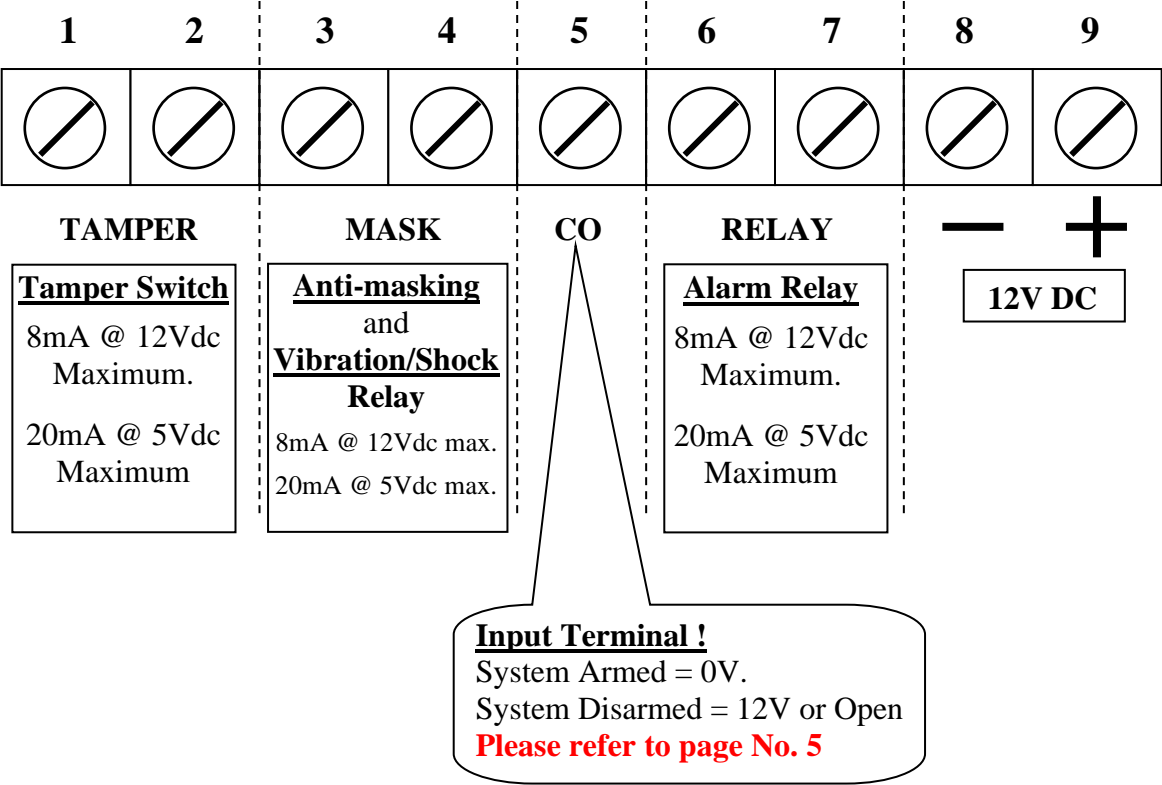
DIP Switch #5, Auto Night Detection Mode.

Set to **"ON"** if you wish during night (darkness) the detection range will be automatically shifted to a different detection range.

If DIP switch No. 4 is set to **Setting by "Walk Test"** position,
Then:

- During the day (light) the detection range is as defined in the "Walk Test".
- Once the night (darkness) comes, the detection range defined by the PIR and Microwave Trimmers.

TERMINAL BLOCK WIRING



WIRING TERMINAL SPECIFICATIONS

*** Terminal No. 8+9**

Indicated on the circuit as: . — +

These are the 9V to 14V DC power supply inputs.

*** Terminal No. 6+7**

Indicated on the circuit as: **RELAY**

Represents the contacts of the "Alarm Relay", which are Normally in Closed state N.C.

Upon detection of any human movement, the relay's contacts will be opened for two seconds, and both Red & Yellow LED indicators will flash.

*** Terminal No. 5**

Indicated on the circuit as: **CO**

This terminal is to be used if you wish to get a report from the detector's memory indicating if it has detected human movement during the armed period.

This terminal should receive an indication from the alarm system's control panel, whether it is in an Armed or Disarmed state.

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

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

How to draw and display the detector's memory ?

If: the detector was alerted during the "armed" period,

Then: upon switching the alarm system from "Armed" to "Disarmed" mode, the Red LED will flash for 30 minutes.

*** Terminal No. 3+4**

Indicated on the circuit as: **MASK**

Represents the contacts of the **Anti-masking** and **Vibration/Shock** Relay which are normally in closed state (N.C.).

a. If an object blocks (masks) the detector's near field-of-view, the Green LED will flash.

However, if an object blocks (masks) the detector's near field-of-view for more than 40 seconds, the green LED will glow constantly, and the "MASK" relay's contacts will be opened for at least 2 seconds and will remain opened for as long as the masking exists.

b. If someone attempts to damage or sabotage the detector by hitting, moving, turning or tilting it, the green LED will glow constantly, and the "MASK" relay's contacts will be opened for 2 seconds.

To enable the Vibration/Shock Relay, you must short circuit between terminal No. 5 (CO) and No. 8 (-).

*** Terminal No. 1+2**

Indicated on the circuit as: **TAMPER**

Represents the contacts of the built-in TAMPER switch, which are normally in a closed state (N.C.). The contacts will open, when the detector's case is opened.

PREPARING THE MASKING CHANNEL FOR OPERATION (Obligatory for proper Anti-masking operation!!!)

To enable proper operation of the masking detection (*Anti-masking*), it is necessary to allow the detector to automatically study and analyze the environmental conditions of its protected area.

This is an obligatory action that should be performed by the installer, ensuring proper operation of the Anti-masking channel!!!

Study procedure to be performed in two cases:

1. Upon connecting the power supply to the detector (after about 1 minute, the time it takes the detector to stabilize when first fed by power supply).
2. Upon the position of DIP switch number-3 (LED indicator) is changed.

Study procedure:

- Immediately close the detector's case (within 30 seconds maximum).
- Keep at least 1 meter away from its front part, until the study procedure is complete, about 2 minutes.

PERFORM A TEST

* To be carried out when the case is closed and the LED indicators are enabled (DIP switch No.1 switched to ON).

Test procedure for human movement detection (Alarm):

- Walk in the protected area.
- Compulsory reaction of the detector:
Upon each detection, the "Alarm Relay" will operate for 2 seconds.
The Red+Yellow LED indicators will flash simultaneously during those 2 seconds.

Test procedure for masking detection (Anti-masking):

- At a distance of about 10 cm from the front of the detector, place a white piece of paper (or any other object).
- Compulsory reaction of the detector:
The Green LED will immediately flash continuously as long as the masking object exists.
If the masking object exists for more than 40 seconds, the Green LED will glow continuously and the "MASK" (*Anti-masking*) relay will operate for at least 2 seconds and for as long as masking exists.

Instructions how to select the Pet immune level



Open the case.



Turn over the front panel.

Unscrew the cover of the lenses



Release and pull out the cover of the lenses





From the provided package, select a filter to be placed under the lower lens.

The thicker the filter elements, the lower sensitivity for signals received through the lower lens. Meaning higher "creep" or pet immune level.



Slide the filter on the cover of the lenses, as **describe**.

.1



.2



.3



Place back the cover of the lenses.
→ Press till click.

Screw back the cover of the lenses



Close the case.

CERTIFICATE OF WARRANTY

MAXIMUM Electronics (1984) Security Ltd. thanks you for buying its products, which have proven their reliability and effectiveness over many years.

To ensure proper operation and functioning of the product and benefit from its features to the utmost, read the Installation & Operating instructions carefully and follow them step by step.

MAXIMUM Electronics Security (1984) Ltd. (hereinafter – the “Manufacturer”) hereby warranties/guarantees the products manufactured by it (hereinafter – “Product” or “Products”) against defects in production or in materials discovered during their reasonable use and service, in accordance with the Manufacturer’s instructions, recommendations and limitations and subject to the provisions of this Certificate of Warranty.

This Warranty is for a limited period of 12 months from the last day of the week and the year whose number is printed on the electronic card (PCB) and/or electronically encoded in one of the Product’s components.

This Warranty is limited to the repair of a defective Product, or its replacement at the Manufacturer’s option, during the Warranty period, subject to reasonable use and servicing in accordance with the Manufacturer’s instructions, recommendations and limitations.

To realize the Warranty rights, the Product must be sent to the Manufacturer securely packaged and accompanied by a document describing the problem, with insurance and freight prepaid by the sender.

The Manufacturer’s products boast a high standard of reliability, proven in tens of thousands of products over many years. The percentage of problems encountered in them is virtually nil, therefore a Product must be carefully checked (according to the operating instructions) before sending it to the Manufacturer for examination and/or servicing in the Warranty framework.

In the event that the installer and/or user and/or customer and/or operator of a Product (hereinafter – the “Customer”) returned the Product to the Manufacturer on the grounds that it is defective and received in exchange from the Manufacturer a functional product, and upon examination the Manufacturer found that the returned Product was not defective – the Customer will be charged the Product’s full value as consideration for the resources invested by the Manufacturer in its examination.

The Manufacturer shall in no case be liable for damage or loss (including monetary loss), whether direct, indirect, accidental, circumstantial or otherwise, entailed in the dismantling or reinstallation of the Product.

In case the Manufacturer decides to replace a returned Product that was found to be defective, the Customer hereby gives its consent to receiving – at no added cost – also a higher version of the Product.

This Warranty is not valid in the following cases: incorrect installation, installation and/or operation not in accordance with the Manufacturer’s instructions, alteration, misuse, accident, sabotage, repair or servicing by someone other than the Manufacturer.

The Customer must take all necessary precautions to prevent and eliminate any discharge of static electricity or other interference that could affect the Product’s functioning.

This Warranty is exclusive and explicit and replaces any other warranty, commitment or guarantee – whether written, oral or implied.

The Manufacturer will in no case be liable toward anyone for a breach of this Certificate of Warranty or of any of its foregoing provisions.

This Certificate of Warranty may not be altered, exchanged or expanded, and the Manufacturer does not authorize anyone to do so on its behalf – including any distributor, dealer, agent, representative or employee of the Manufacturer operating by its authority or on assignment from it.

This Warranty applies to the Product only!

Any other product, accessory or adjunct used together with the Product (including batteries) will be covered solely by its exclusive warranty, if such exists.

The Manufacturer shall in no case be liable for damage or loss, whether direct, indirect, accidental, circumstantial or otherwise, caused by the proper and/or improper functioning of the Product due to use of other products, accessories or adjuncts (including batteries) together with the Product.

The Manufacturer does not claim that the Product is immune to malicious neutralization, bypass, sabotage or deception, or that it will prevent in every case death or physical and/or mental injury due to burglary, robbery, fire or the like, or that the Product will provide in all cases adequate and/or suitable warning or protection.

The Customer understands that correct installation and maintenance, in accordance with the Manufacturer's instructions, recommendations and limitations, merely reduces the risk of failure to give warning in cases such as burglary, robbery and fire, but in no way ensures or guarantees that such cases will not occur or will not result in death or physical and/or mental injury and/or damage to property.

The Manufacturer shall in no case be liable for death or physical and/or mental injury and/or damage to property and/or loss of any kind, whether direct, indirect, accidental, circumstantial or otherwise, on the grounds that the Product did not operate/function properly and/or as expected and/or according to the description in its specification or in any other documentation.

The Manufacturer shall in no case be liable for damage or loss (including death or physical and/or mental injury and/or damage to property), whether direct, indirect, accidental, circumstantial or otherwise, caused through use of and/or reliance upon the Product.

In the event that the Manufacturer is held liable, directly, indirectly, circumstantially or otherwise, for any loss or damage according to the terms of this limited Warranty or otherwise (irrespective of its cause or origin), the maximum amount of the Manufacturer's warranty and/or guarantee shall not exceed in any case the Product's price, and it shall be payable as full and final consideration, and not as a penalty, and shall constitute the entire and sole compensation by the Manufacturer.

It is hereby clarified that the Warranty under this Certificate of Warranty does not cover anything not explicitly and specifically referred to herein.

It is hereby agreed that the Customer waives in advance any claim or contention against the Manufacturer.

Should the Customer and/or a person on his/her behalf nevertheless file suit against the Manufacturer, the Customer and/or that person in such case shall bear all their costs and the Manufacturer's costs arising therefrom, including lawyer's fees, and shall indemnify the Manufacturer for the full amount adjudicated against it in a decision, if any, rendered by any court or arbitrator.

Warning!

The Customer must make sure that the Product meets all his/her requirements, and he/she must comply fully with the installation and operating instructions and *inter alia* check the Product and the entire system at least once a week including under field conditions.

For various reasons (but not only those set out below), changes in environmental conditions and/or electric or electronic interference and/or malicious damage to the Product could cause the Product to function in an unforeseen manner.

The Customer must take all precautions to ensure his/her own safety and security and that of his/her property.

The Customer confirms that he/she read all the conditions of this Certificate of Warranty and he/she agrees thereto.

Installation and/or operation of the Product shall be deemed as the Customer's agreement to all the conditions of this Certificate of Warranty.