

OUT LOOK

**Outdoor/Indoor, Waterproof, Pet immune,
Anti-masking, Detector with selectable Creep Zone**

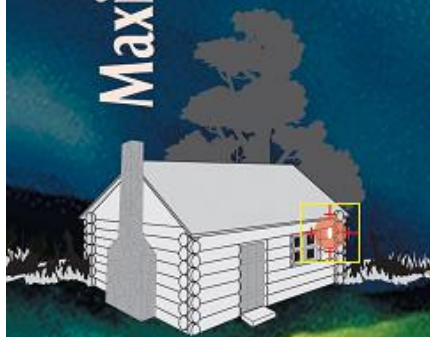
Maximum Performances and Quality !



- **3-Dimensional** Microwave detection
- Combines PIR & Microwave technology
- Hermetically sealed, Waterproof and all-weather-resistant
- Anti-masking, by active infrared beams
- Adjustable Pet / Creep Zone
- Anti-vandalism (Shock and Vibration) Sensor

Applications:

- Courtyards
- Garages
- Hangars
- Car parks
- Farms
- Agricultural fields
- Army facilities
- Banks
- Plants
- Museums
- Hotels
- Businesses
- Homes



Selectable Pet immune



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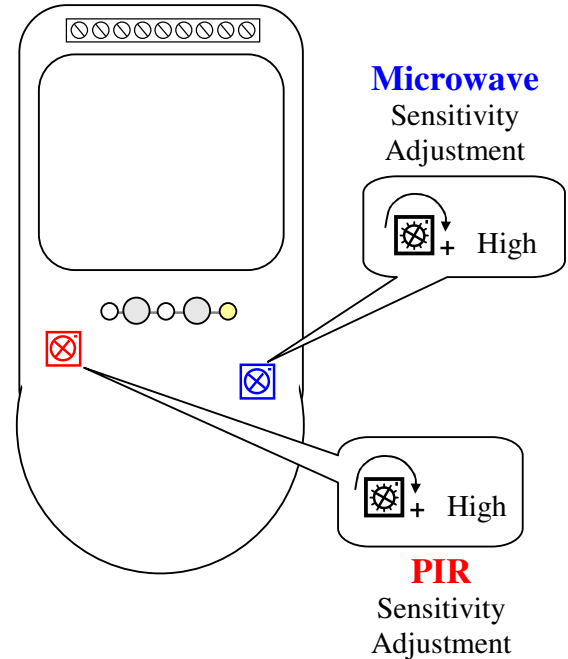
OUT-LOOK Outdoor/indoor intrusion detector

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DIP SWITCH SETTING

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

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**.

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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.

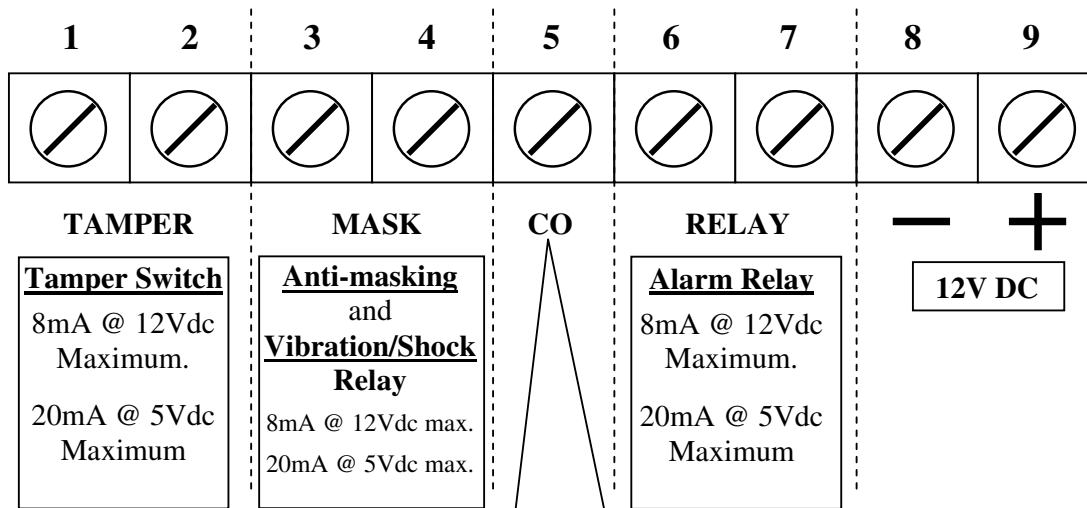
If DIP switch No. 4 is set to **Setting by "Walk Test"** position,
Then:

- 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.

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TERMINAL BLOCK WIRING



Input Terminal !
System Armed = 0V.
System Disarmed = 12V or Open
Please refer to page No. 5

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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.

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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.

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Instructions how to select the Pet immune level



Open the case.



Turn over the front panel.

Unscrew the cover of the lenses



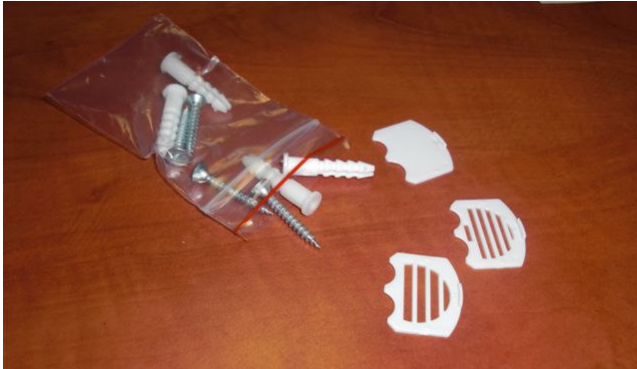
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Release and pull out the cover of the lenses



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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

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

Screw back the cover of the lenses



Close the case.