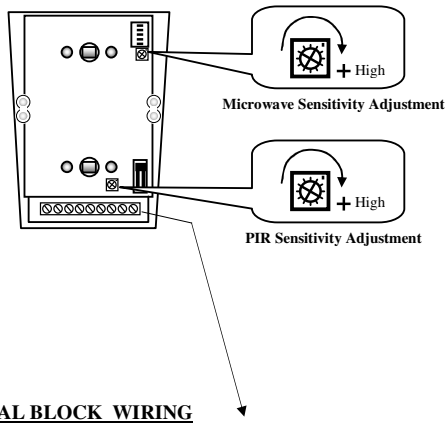
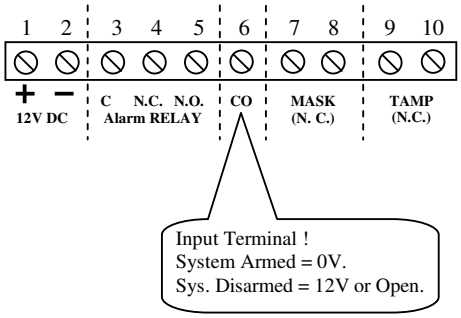
MICROWAVE and PIR SENSITIVITY ADJUSTMENT



TERMINAL BLOCK WIRING



WIRING TERMINAL SPECIFICATIONS

* ***Terminals 1 + 2***
Indicated on the circuit as: **+ −** .
These are the 12V DC power supply inputs.

* ***Terminals 3+4+5***
Indicated on the circuit as: *ALARM (C / N.C. / N.O.)*.
Represent the contacts of the "Alarm Relay":
C + N.C. = Normally Closed. *C + N.O.* = Normally Opened.
Upon any human movement detection, the relay's contacts are opened for two seconds.

* ***Terminals 8+9***
Indicated on the circuit as: **"MASK"**.
Represent the contacts of the "Masking Relay" which normally are in closed state *(N.C.)*.
If an object blocks (masks) the near field-of-view of the detector for more than 2 minutes, the green LED will glow constantly, and the ***"MASK"*** relay will operate for at least 2 seconds and all time the masking exists

* ***Terminals 9+10***
Indicated on the circuit as **"TAMP"**.
Represent the contacts of the built-in TAMPER switch, which are normally in closed state *(N.C.)*.
The contacts will open, upon the detector's case is opened.

* ***Terminal number 7.***
Indicated on the circuit as **"CO"**.
This 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 should 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 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 has alerted during the "armed" period,
Than: upon switching the alarm system from "Armed" to "Disarmed" mode, the Red LED will be activated for 30 minutes.

SETTING TO THE MAXIMUM DETECTION RANGE

In order to set GUARD to its maximum detection range:
1. Move the internal unit (electronic card) to the maximum height on its back panel, than move it 3 mm lower and fix it there.
2. Install GUARD in a height of between 1.80 and 2.00 meter above the floor level and **perpendicular (90^0) to the floor level**.

PREPARING THE ANTI-MASKING CHANNEL FOR WORK

In order to enable the masking detection to operate properly, it is necessary to allow the detector study and analyze automatically the environmental conditions of its protected area.
The study procedure to be performed in **three cases:**

1. Upon connecting the power supply to the detector.
2. Upon the position of DIP switch number-3 (Masking detection sensitivity) is changed.
3. Upon relocation of the internal unit of the detector.

The study procedure in the first & second case:
- Close immediately the detector's case (within 15 seconds maximum).
- Keep away (at least 0.5 meter) from its front, until the study procedure finished, about 30 seconds.
- As an indication for the study procedure, the Green+Yellow LEDs will blink rapidly once the procedure begins and ends.
- Once the study procedure ends, the Yellow LED should activate constantly for about 4 seconds. (If the Orange LED activates instead of the yellow one, it means that the study procedure failed and should be carried out again carefully - following the above procedure).

The study procedure in the third case:
- Change the position of DIP switch number-3 for about one second, and switch it back to the original place.
- Close immediately the detector's case (within 15 seconds maximum).
- Keep away (at least 0.5 meter) from its front, until the study procedure finished, about 30 seconds.
- As an indication for the study procedure, the Green+Yellow LEDs will blink rapidly once the procedure begins and ends.
- Once the study procedure ends, the Yellow LED should activate constantly for about 4 seconds. (If the Orange LED activates instead of the yellow one, it means that the study procedure failed and should be carried out again carefully - following the above procedure).

PERFORM A TEST

➢ **To be done when the case is closed and the *LEDs* are enabled**

The test procedure for human movement detection (Alarm):
- Walk in the protected area.
- The necessary reaction of the detector:
  Upon each detection, the "Alarm Relay" and the Red + Yellow indication LED will blink together for 2 seconds.

The test procedure for masking detection (Anti-masking):
- In a distance of about 10 cm from the detector's front, place a white paper (or any other object).
- The necessary reaction of the detector:
  The Green LED will blink immediately.
  After 2 minutes the "Masking Relay" will activate.
  All time when an object blocks (masks) the near field-of-view of the detector, the masking relay and the Green LED will activate.

The test procedure for Case-shifting detection:
- Shake the detector.
  If it fixed to a wall, knock on the detector's case by a screwdriver.
- The necessary reaction of the detector:
  The "Masking Relay" will activate for 2 second.
  The Green LED will activate, shortly, upon every knocking.

Rubin 261201

SPECIFICATIONS

* Power supply……..……12V DC
* Current drain……..…… 40mA (Max.)
* *Alarm relay* contacts withstand……..… 50V DC / 0.25A
* *Anti-masking relay* contacts withstand…… 24V DC / 0.1A
* TAMPER Switch withstand…….... 24V DC / 0.1A
* Warm-up time……..…… 2 Minutes
* Alarm period……..….. 2 Seconds
* *Anti-masking relay* respond time…… 2 Minutes (Max.)
* *Anti-masking relay* activation period……... All time of masking (at least 2 seconds).
* Motion detection coverage……12 meter, 110^0
* Operating Temperature…….…….. (-)37 ~ (+)70^oC