

GATE/OUTGATE ANTI-MASK V4

GATE/OUTGATE ANTI-MASK V4 are dual technology indoor/outdoor barrier detectors in the 24.125GHz k band. Unlike the Gate Control, the Outgate is equipped with a 90° joint with a through hole for connecting the cables.

Both detectors use a special Fresnel lens produced by us which facilitates - jointly with the circuit - the fitter's work (once the detector is fixed, allows the performance of coverage and calibration tests, without removing and/or replacing the detector cover).

Furthermore, the lens offers perfect isolation of the IR sensor, preserving it from atmospheric agents, dust, etc, which underlie most false alarms. Two O-rings protect the sensor and the lens from water and humidity infiltrations.

Main functions:

- **AND mode** - the alarm is triggered if both microwave and infrared sensors detect movement. In the **OR mode**, however, the alarm is triggered if any sensor detects movement.
- **INTELLIGENT OR mode** - if one of both sensors (either microwave or infrared) provides 10 detections in 30 seconds, it triggers an alarm even if configured in AND mode. Activate only in stable environmental conditions.
- **ANTI-MASK IR** - two infrared sensors active inside the lens guarantee the detection of intentional masking attempts (the alarm is triggered 60 seconds after masking).
- **ANTI-MASK MW** - the microwave, through software, immediately detects the presence of an object placed in front at a maximum distance of 5-10 cm (the distance depends on the type of object and the alarm duration is 20 seconds). Activate only in stable environmental conditions.

All functions can be individually configured via DIP switches.

CONNECTIONS:

+ = Positive 12V power supply

- = Negative 12V power supply

TAMPER = 24H protection contact

C NC = NC alarm contact

MASK = Output relay dedicated to the anti-masking function

BL = Microwave emission blocking input. The presence of a positive 12V signal blocks the microwave emissions. NB: in this case, the microwave section and consequently **the ANTI-MASK MW will not work.**

Technical Specifications:

12Vdc power supply

Absorption in idle status: about 27mA

Absorption in alarm status: max 36mA.

Working temperature range: -20°C to 50°C

Compartment for anti-tear contact on the joint (OUT-GATE version only)

Movement alarm discrimination controlled by integrated microprocessor.

High immunity to microphone effects and transients.

TRIMMER MW-RANGE: used to set the microwave range.

TRIMMER MW-DELAY: used to set the microwave delay.

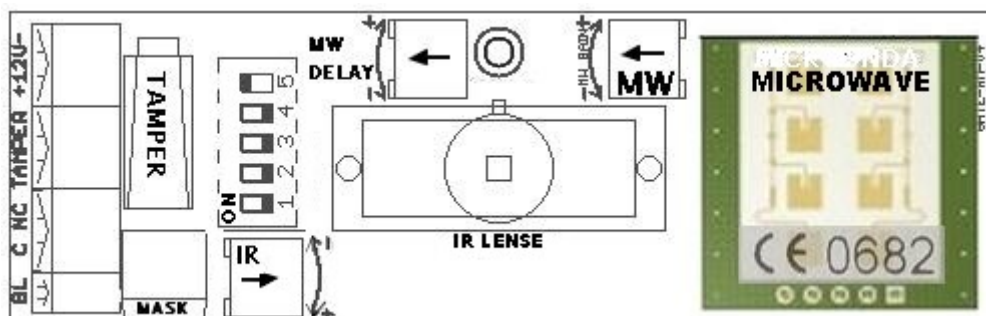
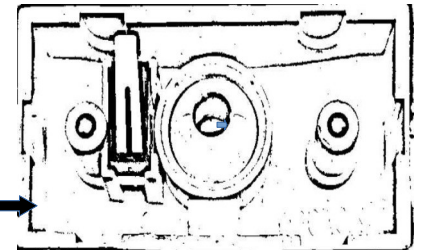
TRIMMER IR-GAIN : used to set the infrared gain.

Block Input (green line) of the microwave emission with the system disarmed.

Output **relay** , dedicated to the anti-masking function

Tamper protection against opening of the detector cover.

Microwave EIRP = 15dBm output power

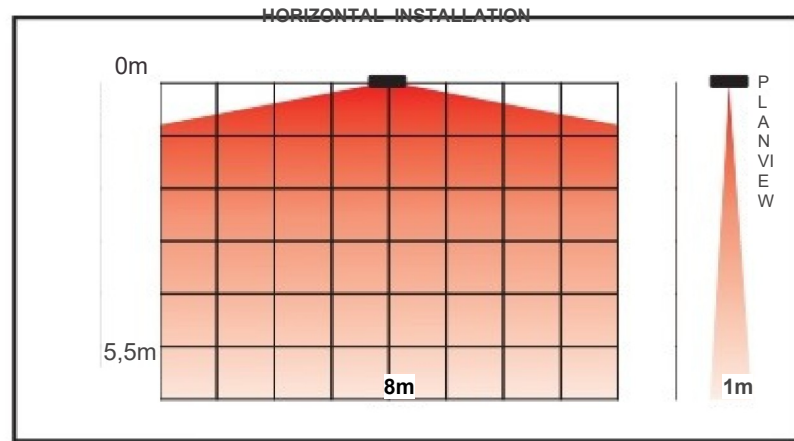
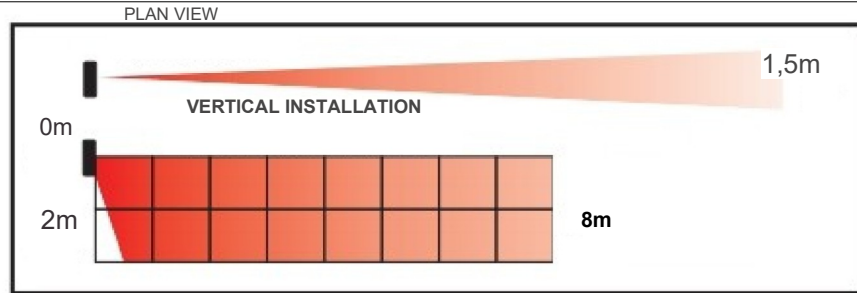


N.B. For correct operation of ANTIMASK IR function, at the end of settings, it is right to disconnect the power supply for about 20" to recalibrate the sensor.

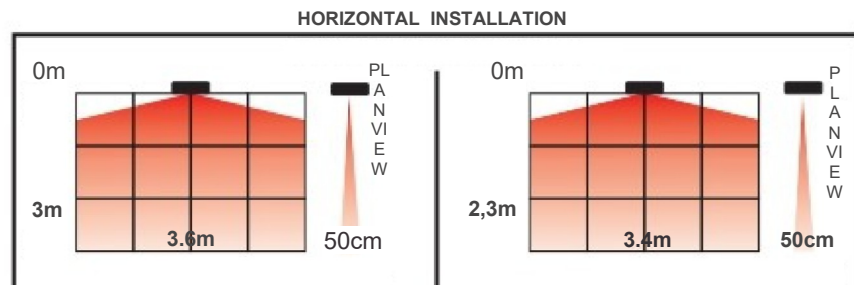
SETTINGS:

TRIMMER IR-GAIN	INFRARED GAIN SETTING (red led)	
TRIMMER MW-RANGE	MICROWAVE RANGE SETTING (blue led)	
TRIMMER MW-DELAY	MICROWAVE HALTING DELAY SETTING	
DIP-SWITCH 1	ON = MW MASK DISABLED (DEFAULT)	OFF = MW MASK ENABLED
DIP-SWITCH 2	ON = OR OPERATION	OFF = AND OPERATION (DEFAULT)
DIP-SWITCH 3	ON = AUTOMATIC OR FUNCTION DISABLED (DEFAULT)	OFF = AUTOMATIC OR FUNCTION ENABLED
DIP-SWITCH 4	ON = IR MASK DISABLED	OFF = IR MASK ENABLED (DEFAULT)
DIP-SWITCH 5	ON = LED ON (DEFAULT)	OFF = LED OFF

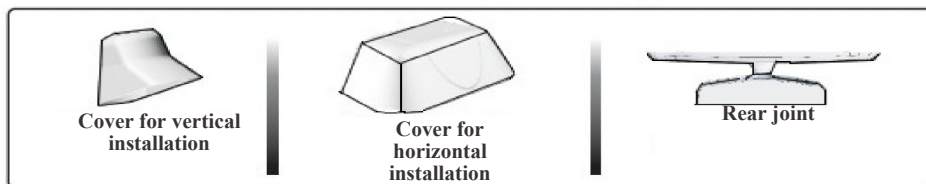
COVERAGE DIAGRAM:



compartment anti-tear contact :



Accessories for Outgate



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CE EN 50131-2-4 GRADE II – CLASS II (Gate Control)
 GRADE III – CLASS II (OUTGATE)

