

®

SILENTRON

WIRELESS SECURITY



"WIRELESS" ELECTRONICS FOR ALARM SYSTEMS AND HOME AUTOMATION



MADE IN ITALY



HT
HIGH TECHNOLOGY



FIRST EDITION 2009

GLOSSARIO

OUTDOOR ALARM:	State of Silentron alarm system equipped with outside detectors: in case of alarm coming from these detectors the speaking control panel warns the user whilst the sirens signal an outdoor alarm with repeated "beeps" or with pre-recorded vocal messages, without sounding at max power.
FALSE ALARM:	Alarm caused by a defect and/or failure of one or more devices (covered by industrial warranty)
IMPROPER ALARM:	Alarm caused by incorrect positioning, technical limit of device and/or random accidental causes independent of the equipment itself (not covered by industrial warranty).
POWER SUPPLY:	Supply of a certain amount of electric current (Amper) continuous (DC) or alternated (AC at a certain frequency. UE =50Hertz) at a certain voltage (Volt). It can happen that a power supply source supplies voltage, but not current (like a 20 litre tank, but mostly empty): in this case the electric equipment does not function or functions badly. It usually happens with the batteries, which voltage must always be measured with the load connected, as when empty the voltage may seem correct, but in fact without available current.
AND (FUNCTION):	Control panel function intended to reduce improper alarms: two detectors are programmed on the same channel and the alarm is triggered only if both transmit an alarm signal within 30 seconds (fixed).
UNDER THREAT:	Keypad function allowing the disarming of the control panel by entering an appropriate code which simultaneously arms the telephone transmission of "robbery" vocal messages and sms (silent alarm) to specified numbers
ANTI-SCANNER:	Electronic device for protection from and signalling of radio interferences
AUTONOMY:	Duration of full functioning of batteries operated electronic devices
ANTI-TAMPERING:	Automatic reaction of a device against tampering
BIDIRECTIONAL:	Radio and/or telephone transmission in both directions (speak/listen type)
BISTABLE:	Situation where a control causes an effect which remains until subsequent control
DUALBAND:	Simultaneous radio transmission on two different and far apart frequencies
HOME AUTOMATION:	Electronic/electromechanical automation for domestic functions (open/close doors, turn on lights, etc).
DOPPLER (EFFECT):	Physical event which allows to remotely detect masses through an electro-magnetic emission and its analysis.
EVENTS MEMORY:	Various forms of indelible recording of occurred events, which can have legal value.
MONOSTABLE:	Situation where a control generates an effect which ends on its own
RADAR:	Electronic device which uses the Doppler effect to remotely detect masses
PRE-ALARM:	Control panel state prior to actual alarm, caused by detectors programmed with alarm delay or state of the outside sirens before sounding
ALARM DELAY:	Time between the detector transmission and the actual alarm: it is adjustable on the Silenya HT control panels individually for each detector.
DETECTOR:	Equipment designed to signal an intrusion, passing, open door/window and any other event which poses a danger. Equivalent term used in the manual: SENSOR
DIGITAL PROTOCOL:	Alarms transmission format used by security services
SUPERVISION:	check of cycling transmission from each system component]
REMOTE MANAGEMENT:	Remote after-sales assistance, with possibility of intervention and/or modification

5500 SILENYA HT GSM TOP - 5502 SILENYA HT TOP

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Power supply 230V AC 50/60Hz with charger for internal rechargeable battery (not supplied) 12V DC 2.2Ah, for an approx. 36 hours autonomy without current (without any device wired connected).

Anti-tampering: signals the opening of the device container and its detachment from the wall.

Radio transmission: simultaneous DualBand frequency in accordance with EU law, with display of radio signal received; anti-scanner check and supervision of all peripheral (excluded remote controls); range suitable for use.

Control and test: "test" function can be activated at any moment and event memorising of up to 200 events; vocal messages to the user for the main functions of the control panel.

Control items: built-in keypad (up to 32 different codes of 5 digits each); unlimited number of wireless bidirectional keypads (same 5 digit codes); bidirectional remote controls (up to 32).

Radio detectors: manages up to 99 detectors of various type, all with delayed intervention.

Detectors special functions: 1) possibility of "And" detector programming on each of the 99 zones. 2) possibility of differentiated management of the outside detectors on a zone (A,B,C) purposely pre-arranged (outdoor alarm).

Wired detectors: 6 NC inputs available for traditional detectors. The number of detectors which can be installed, depends on their absorption: approx. 300mAh are available (10 detectors of 30mA each).

Local alarm means: removable inside siren; unlimited number of inside/outside radio sirens. Possibility of self-powered wired siren: appropriate power supply output provided to recharge its battery. Possibility of further wired siren.

Alarms remote transmission: 6 pre-recorded vocal messages, transmitted to the programmed numbers (up to 63), if wished, also linked to a single event. Possibility to listen to ambient sounds during transmission. Transmission of alarms in digital protocol in Contact ID and Cesa 200baud format to the security services equipped with appropriate receiver.

Generality: these control panels represent an all-round solution for alarm systems installation realised mainly with wireless detectors, control and alarm means, but with wide possibility of hard-wiring components where possible or convenient. Both have bidirectional telephone transmitter on PSTN line. They differ because one model is also equipped with GSM telephone transmission.

Use features: anti-intrusion alarm systems with inside and outside detectors in residential buildings, offices, warehouses; possibility to complete with technical alarms detectors (gas, smoke, flooding and similar) and manual controls to request assistance (fainting, aggression or similar); possibility to check, listen to ambient sounds and send commands via telephone for local operations.

Installation features: easy programming through a keypad and display or through PC, with the possibility of supplementary vocal guide (accessory card code 30029). Distribution of intrusion detectors on three alarm zones activated individually (A, B, C) and/or programmable groups. Three 24/24h zones for technical and manual alarms with and without activating the sirens.

CONTROL PANELS FOR MIXED ALARM SYSTEMS WITH/WITHOUT WIRES



SIZE (H*W*D):
307 x 200 x 53mm

WEIGHT:
1,2 Kg

CASE:
ABS



Home automation: possibility to arm/disarm/check system with telephone and/or inside clock; possibility to remotely control 2+16 operations (switching on lights, electric devices activation) through appropriate RX receivers; listen to guide message for the user following a call to the control panel.

Services: possibility for the installer to remotely manage the control panel, if equipped with **Teleservice (code 5996)**; possibility to digitally connect to the closed-circuit monitoring system services.

Local signals: all main events are displayed on the display and diffused vocally. It is possible to add an outside loudspeaker.

Remote management: the control panels can be remotely managed through the PSTN line and the Teleservice device connected to a PC

Programming via PC: it is possible to operate in this way, by connecting the control panel to the PC through appropriate cable code 5997



Further features of the 5500 model with GSM integrated (requires a SIM card, not included):

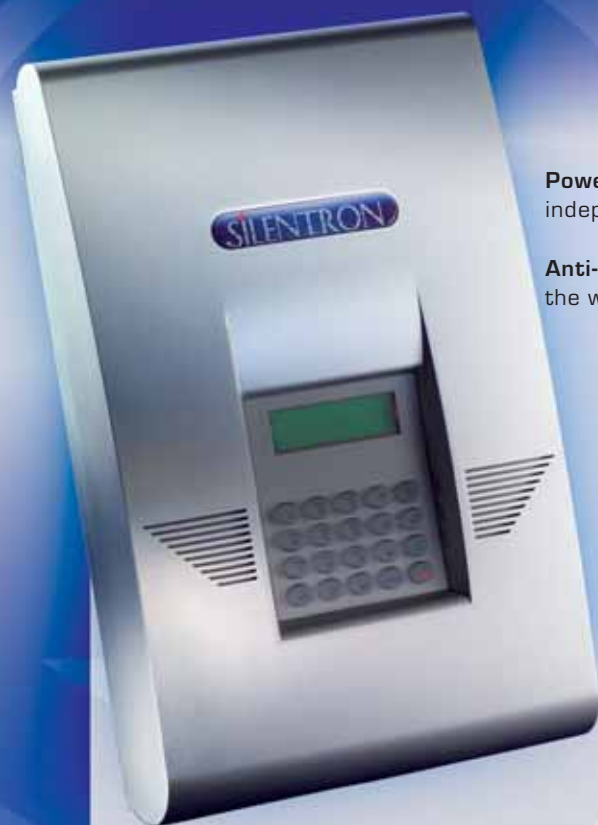
Alarms remote transmission: double transmission safety of the alarms (via PSTN line and/or GSM); check SIM card expiry date; check remaining credit.

Alarms remote transmission: sending of 6 + 11 SMS for alarms and technical information to the user.

Telephone: possibility to use the control panel for normal telephone calls on GSM network.

Home automation: simplified home automation operations of the control panel through the recognition of the calling number.

5501 SILENYA HT GSM FREE - 5503 SILENYA HT FREE



Power supply : 9V > 12 Ah alkaline battery pack, for an autonomy of over two years, independent of the electric network.

Anti-tampering: signals the opening of the device container and its detachment from the wall.

Radio transmission: simultaneous DualBand frequency in accordance with EU law, with display of radio signal received; anti-scanner check and supervision of all peripheral (excluded remote controls); range suitable for use.

Control and test: "test" function can be activated at any moment and event memorising of up to 200 events; vocal messages to the user for the main functions of the control panel.

Control items: built-in keypad (up to 32 different codes of 5 digits each); unlimited number of wireless bidirectional keypads (same 5 digit codes); bidirectional remote controls (up to 32).

Radio detectors: manages up to 99 detectors of various type, all with delayed intervention.

Detectors special functions: 1) possibility of "And" detector programming on each of the 99 zones. 2) possibility of differentiated management of the outside detectors on a zone (A,B,C) purposely pre-arranged (outdoor alarm).

Local alarm means: removable inside siren; unlimited number of inside/outside radio sirens.

Alarms remote transmission: 6 pre-recorded vocal messages, transmitted to the programmed numbers (up to 63), if wished, also linked to a single event. Possibility to listen to ambient sounds during transmission. Transmission of alarms in digital protocol in Contact ID and Cesa 200baud format to the security services equipped with appropriate receiver.

Generality: these control panels represent an all-round solution for alarm systems installation realised exclusively with wireless detectors, control and alarm means. Both have bidirectional telephone transmitter on PSTN line. They differ because one model is also equipped with GSM telephone transmission.

Use features: anti-intrusion alarm systems with inside and outside detectors in residential buildings, offices, warehouses; possibility to complete with technical alarms detectors (gas, smoke, flooding and similar) and manual controls to request assistance (fainting, aggression or similar); possibility to check, listen to ambient sounds and send commands via telephone for local operations.

Installation features: easy programming through a keypad and display or through PC, with the possibility of supplementary vocal guide (accessory card code 30029). Distribution of intrusion detectors on three alarm zones activated individually (A, B, C) and/or programmable groups. Three 24/24h zones for technical and manual alarms with and without activating the sirens.

CONTROL PANELS FOR 100% WIRELESS SYSTEMS



SIZE (H*W*D):
307 x 200 x 53mm

WEIGHT:
2 Kg

CASE:
ABS



POWER-PACK

BATTERY POWER-PACK

9V > 12Ah -20°C +55°C

Home automation: possibility to arm/disarm/check system with telephone and/or inside clock; possibility to remotely control 16 operations (switching on lights, electric devices activation) through appropriate RX receivers; listen to information message for the user following a call to the control panel.

Services: possibility for the installer to remotely manage the control panel, if equipped with Teleservice; possibility to digitally connect to the closed-circuit monitoring system services.

Local signals: all main events are displayed on the display and diffused vocally.

Remote management: the control panels can be remotely managed through the PSTN line and the Teleservice device connected to a PC

Programming via PC: it is possible to operate in this way, by connecting the control panel to the PC through appropriate cable code 5997



Further features of the 5501 model with GSM integrated (requires a SIM card, not included):

Alarms remote transmission: double transmission safety of the alarms (via PSTN line and/or GSM); check SIM card expiry date; check remaining credit.

Alarms remote transmission: sending of 6 + 8 SMS for alarms and technical information to the user.
Telephone: possibility to use the control panel for normal telephone calls on GSM network.

Notes: the GSM module is usually switched off to reduce consumption; therefore, a call to the control panel to the GSM number is not possible (it has to be called on PSTN line).

5996 TELESERVICE - DEVICE FOR ALARM SYSTEMS REMOTE MANAGEMENT



Power supply 230V AC 50/60Hz with charger for internal rechargeable battery 6V DC 1.2Ah supplied, for an approx. 36 hours autonomy without current.

SIZE (H*W*D):
110 x 161 x 100mm

WEIGHT:
0,43 Kg

CASE:
ABS



Functions: the device allows to remotely operate on a virtual keypad the same as that of the control panel, carrying out operations in the same simple manner. The user, if in front of the control panel, will see the operations carried out on the display, therefore understanding the work done.

Teleservice also allows to store system programming and events memory of all installed control panels, therefore constituting an archive, fundamental for a better service.

5997 Cable for connecting control panel – PC

This accessory for the installers allows to connect Silenya control panels to a PC, therefore operating in the same way as the Teleservice (but without the phone connection) and saving the system data at every modification. Access is simple and intuitive and does not require particular information knowledge.

Generality: this device is indispensable for the installer wishing to supply an immediate after-sales assistance to the client. It allows to operate on the Silenya HT control panels via PSTN line, carrying out checks and/or modifications to the system.

Use features: remote management of Silenya control panels

Installation features: the device must be connected to the installers' PC and telephone line, powered and set through the firmware supplied. Only one device is needed to manage all the control panels.

5528 KEYPAD HT - BIDIRECTIONAL KEYPAD WITH NUMERICAL CODE



Power supply : 3 AA 1.5V batteries, for an autonomy of approx. two years with normal use.

Anti-tampering: signals the opening of the device container and its detachment from the wall.

Radio transmission: simultaneous DualBand frequency in accordance with EU law. Range suitable for use.

Control and test: the test is implicit in every operation through the confirmation of the sent control.

SIZE (H*W*D):
145 x 106 x 30mm

WEIGHT:
0,18 Kg

CASE:
ABS



Functions of the device:

- 1) control to control panel for total arming of one or more requested zones, disarming control, both after having entered a 5 digit code. Subsequent reception from the control panel confirming the sent control.
- 2) control as above, but with simultaneous sending of silent alarm via telephone to programmed numbers (under threat function).
- 3) questioning of the state of the control panel (totally/partially armed or disarmed)
- 4) transmission of alarm to the control panel, with or without activating the sirens, with or without activating the telephone calls (24h zones).
- 5) transmission to the control panel of 2 home automation controls for various uses.
- 6) transmission of controls to RX local receivers of various type for home automation operations.

Device local signals following arming and/or disarming operation:

armed zones (A,B,C,) - transmission in progress - new event (check control panel memory) - protected door/window fixture left open - own battery low - awaiting reply.

Generality: this device allows the total/partial arming and disarming operations of an alarm control panel, therefore of the system, as well as controlling the operation carried out and the display of any anomaly situations of the system.

Use features: anti-intrusion alarm system with inside and outside detectors in residential buildings, offices, warehouse, coupled with all Silenya HT control panel models.

Installation features: Keypad is installed fixed to a wall inside the buildings (or outdoor but in an area protected from bad weather), in useful place to carry out operations and is opportunely programmed on the control panel in order to connect the use to the same. The operation codes are pre-programmed directly on the control panel (see "codes") and can be used on all keypads inserted on the system, which can be more than one (the installation limit is equipped with the sum of the keypads+detectors+bidirectional sirens used, which cannot exceed 99).

5523/24 PCK HT (868/433MHz) - ROLLING CODE REMOTE CONTROLS



Power supply : 2 lithium batteries 3V type CR 2016, for an autonomy of approx. two years with normal use.

Radio transmission: mono frequency in accordance with EU law. Range suitable for use [see technical doc.].

Control and test: the test is implicit in every operation through the confirmation of the sent control.

SIZE (H*W*D):
90 x 28,6 x 17,5mm

WEIGHT:
0,028 Kg

CASE:
ABS



Functions of the device:

- 1) total arming control (red key) or partial (white key - zones A+B), or disarming (green key).
- 2) alarm control to control panel (yellow key) or home automation operation to RX receivers (for example, opening gate)
- 3) use with RX receivers 5541 and 5542 (only 5524): red-green keys = bistable control - white/yellow keys = 2 different monostable controls

Device local signals following arming and/or disarming operation:

The remote control LED displays the transmission (orange) and changes colour when receiving confirmation from the control panel: becomes red after an arming and green after a disarming.

Generality and use features: this bidirectional mono frequency remote control is specific for controlling the alarm control panels within useful range (tens of metres) avoiding alarm delays necessary to disconnect from inside the buildings.

5023P PCK - REMOTE CONTROL

5023E PCK - EMERGENCY REMOTE CONTROL



Power supply : 2 lithium batteries 3V type CR 2016, for an autonomy of approx. two years with normal use.

Radio transmission: mono frequency in accordance with EU law. Range suitable for use.

Control and test: the test is implicit in every operation through the confirmation of the sent control.

SIZE (H*W*D):
66,5 x 35,6 x 17,3mm

WEIGHT:
0,022 Kg

CASE:
ABS



Functions of the device (5023P):

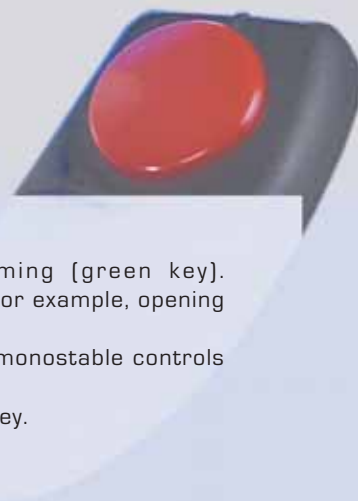
- 1) total arming control (red key) or partial (white key - zones A+B), or disarming (green key).
- 2) alarm control to control panel (yellow key) or home automation operation to RX receivers (for example, opening gate)
- 3) use with RX receivers: red-green keys = bistable control - white/yellow keys = 2 different monostable controls

Functions of the device (5023E): request assistance; sending of radio signal by pressing the key.

Devices local signals: the red LED displays the transmission

Generality and use features (5023P): monodirectional mono frequency remote control allows to control the alarm control panels within useful range (tens of metres) avoiding alarm delays necessary to disconnect from inside the buildings. The device can also be used for direct controls to RX receivers.

Generality and use features (5023E): this monodirectional mono frequency remote control transmits an alarm signal, to be programmed on the control panel in the zone provided for use. The device can also be used for direct controls to RX receivers.



5530 SIRENYA - WIRELESS BIDIRECTIONAL OUTDOOR SIREN WITH FLASHER

5531 SIRENYA - MONODIRECTIONAL >>>



5530-5531 Power supply: 9V > 12 Ah alkaline battery pack, for an autonomy of over two years, independent of the electric network.

Anti-tampering: double protection cover with device opening signal and its detachment from the wall, with a 3 minute alarm in both cases. Such alarm is blocked when placing the control panel in TEST.

5530-5531 Radio reception: simultaneous DualBand frequency in accordance with EU law; range suitable for use.

Control and test: granted that at every arming/disarming the sirens issue confirmation acoustic signals, the best test for the sirens consists in causing an alarm and have them sound. The acoustic power released is the best guarantee of a correct functioning and correct batteries charge present in the devices. Low power indicate with certainty lack of current of the batteries.

Acoustic power: over 116 db at 1 m.

Flashing: incandescent lamp 6V 5W - 12V 5W (mod. 5139) - about 40 flashes per minute

- total/partial arming of the system = 3 beeps+3 flashes
- disarming = 1 beep+1flash (adjustable volume)
- alarm: timed at 3 fixed minutes

The 5530 model has DualBand transmitter which, opportunely programmed on control panel, allows the following functions:

- **transmission of tampering signal:** the siren sounds and places the remaining system in alarm
- **transmission of supervision signal:** any faults and/or low battery are signalled on control panel

The 5531 model, without radio transmitter, sounds in case of tampering and, in case of low battery, repeatedly "beeps".

Generality: these sirens are the natural mean of dissuasion and typical identification of alarm systems.

Use features: general anti-intrusion alarm systems.

Installation features: the outdoor sirens must be installed on a wall, in difficult to reach positions, as they are the first target for tampering, and protected from bad weather. The wireless sirens installed can be more than one (see control panels) and allow higher installing flexibility, not having wiring obligations. The hard-wired model must be installed so that the connecting wire cannot be seen from the outside.

5139 SIRENYA - HARD-WIRED



Features and functioning of the 5530-5531 wireless models:

Special functions: by inserting the **5930 optional p.c.b.** in the siren, it "speaks": in case of outdoor alarm and/or pre-alarm, it will diffuse messages opportunely recorded instead of repeated "beeps". The function guarantees an highly dissuasive surprise effect.

Local signals:

- **low battery:** repeated "beeps" subsequent to arming/disarming the system.
- **pre-alarm:** before sounding it issues continuous rhythmic "beeps".
- **outdoor alarm:** repeated rhythmic beeps for 3 consecutive minutes

SIZE (H*W*D):
270 x 203 x 73mm

WEIGHT:
2,325 Kg (5139 1,4 Kg)

CASE:
ABS



Features and functioning of the hard-wired model (5139)

A Sirenya Mida can be used with any hard-wired control panel and with Silenya Top. The connection requires 5 wires (+/- power supply; alarm; anti-tampering; on-off).

A rechargeable battery must be placed inside the siren (not supplied) 12V DC 2.2Ah, to be replaced at least every 4 years or before in case of scarce capacity.

It is not possible to insert the vocal board.

5034 SR-P - WIRELESS INDOOR SIREN



Power supply: 3 LR14 1.5V alkaline batteries, for an autonomy of nearly two years with normal use.

Anti-tampering: alarm on opening the cover, timed at 3 minutes; such alarm blocks placing the control panel in TEST.

Radio reception: mono frequency (433MHz) according to EU law; range suitable for use

Control and test: granted that at every arming/disarming the sirens issue confirmation acoustic signals, the best test for the sirens consists in causing an alarm and have them sound. The acoustic power released is the best guarantee of a correct functioning and correct batteries charge present in the devices. Low power indicate with certainty lack of current of the batteries.

SIZE (H*W*D):
97 x 157 x 44mm

WEIGHT:
0,7 Kg

CASE:
ABS



Acoustic power: over 106 db at 1m

Functioning: the sirens sound for 3 minutes on control from control panel.

Local signals:

- system total/partial arming = 3 beeps
- disarming = 1 beep (volume adjustable down to zero)
- low battery = repeated "beeps" subsequent to arming/disarming the system.

Generality: these sirens are the most effective dissuasion mean as they violently disturb the intruder. Therefore, the global efficiency of the system definitely increases where these sirens are used in adequate number.

Use features: general anti-intrusion alarm systems.

Installation features: the device can be installed on the wall or simply hidden above high furniture. Using more than one per system, has a higher dissuasive effect and a more difficult identification of the position for destroying purposes.

5535 SR-VOCAL - WIRELESS MESSAGES DIFFUSER



Power supply: 3 LR14 1.5V alkaline batteries. The autonomy depends on the number and frequency of activations.

Anti-tampering: alarm on opening the cover, timed at 3 minutes; such alarm blocks placing the control panel in TEST.

Control and test: implicit in the functioning.

Acoustic power: over 75 db at 1 m.

Radio reception: mono frequency according to EU law, with display of controls reception. Range suitable for use.

WORK IN PROGRESS...

Functioning:

The device can receive radio controls from an alarm control panel or from detectors, remote controls and keypads. The vocal messages are recorded directly on the device. Its functioning is subsequent to the use modalities as follows:

Mode 1 "siren": controlled by the alarm control panel, carries out the functioning of the 5530 siren with vocal board with limited acoustic power, signalling with 3 "beeps" the arming, with 1 the disarming, diffusing pre-alarm and outside alarm messages.

Mode 2 "system status signal": controlled by the control panel, it highlights with acoustic signals as above the arming and disarming, maintaining a LED flashing in "armed" and signalling d/w fixture left open and/or alarms occurred.

Mode 3 "mixed functions": controlled by the control panel answers "operation confirmed" (recording) at every arming/disarming whilst transmitting a recorded message on control by the detector or remote control (max. 16 programmable detectors/remote controls).

Mode 4 "vocal warning signal": the diffusion of two recorded messages can be obtained, controlled by 16 + 16 detectors/remote controls.

Signals: the device signals with repeated "beeps" the low batteries situation.

Generality: this device can sound and/or diffuse two recorded messages following a radio control, it is useful as informer/dissuader in alarm systems as in any other danger or doubt situation, where there is a need for information and/or warning following certain events.

Use features: anti-intrusion, anti-fire, anti-hazard of every type alarm systems. Home automation where a clear vocal communication is necessary or useful following certain events.

Installation features: the device is installed on the wall; the total lack of connections allows maximum installing freedom both inside and outside: in this case, SR-Vocal must be properly protected from bad weather.

5515B/M SENSOR HT - DOORS/WINDOWS OPENING SENSOR



Power supply: 9V alkaline battery type GP1604A or equivalent, for an autonomy of approx. two years with normal use. Autonomy sensibly decreases in case of frequent openings of the d/w fixture.

Anti-tampering: signals the opening of the device and its detachment from the wall.

Radio transmission: simultaneous DualBand frequency in accordance with EU law. Range suitable for use.

Control and test: when the device is open LED confirmation detection at every opening is obtained. With operative system the test happens by causing an alarm and verifying the reception of the control panel.



SIZE (H*W*D):
135,5 x 31 x 27,5mm

WEIGHT:
0,12 Kg

CASE:
ABS



Functioning:

- Alarm due to distancing of the mobile part respect to the fixed part, with possibility of signalling any d/w fixture left open.
- Alarm due to a violent impact or fixture break-in, adjusted in the factory. Same code as previously.
- Alarm due to solicitations NC/NO input subject to impulses count and differentiated respect to previous.

As well as the intrusion alarm, the devices signal the tampering once event is verified; the operating status (supervision) and any low battery every 40 minutes: the control panel highlights these signals following arming and/or disarming.

Device local signals: alarm/test LED, which also signals low battery by quickly flashing for a few seconds.

Aesthetic solutions: white and brown colours; to camouflage the device by integrating it even more with the environment, appropriate plastic coverings in different shades wood and aluminium as illustrated are available.

General Uses: Sensor can be used to complete the wireless system with various types of passive sensors, connecting them to the NC/NO input.

Generality: this device was built for double protection of d/w fixtures (perimeter protection) against opening and/or break-in; with a first integrated opening sensor and an input to connect another hard-wired sensor: this allows the protection of both the inside and outside of the fixture, obtaining higher security for the same price.

The programming of the device on the control panel is easy and immediate.

Use features: signal of window opening + signal of break-in and/or violent impact + input for other passive sensor. Specific use in the protection of fixtures, both inside and outside

Installation features: Sensor HT is fixed at the fixture jamb, positioning the magnet on the mobile part of the same, so that its distancing from the sensor body causes an alarm. For higher sensitivity to break-in, the body of the Sensor must be fixed to the area of probable solicitation. Any sensors connected to the available input, are managed autonomously: the input has quick impulses count and its own alarm code, therefore it is recognised by the control panel in an independent manner by the distancing of the magnet from the body of the sensor.

5521B/M PIR HT - PASSIVE INFRARED DETECTOR



Power supply: 9V alkaline battery type GP1604A or equivalent, for an autonomy of approx. two years with normal use. Autonomy decreases sensibly in frequently used areas.

Anti-tampering: signals the opening of the device and its detachment from the wall.

Radio transmission: simultaneous DualBand frequency in accordance with EU law. Range suitable for use.

Control and test: when the device is open, LED confirmation detection at every human movement is obtained. With operative system the test happens by causing an alarm and verifying the reception of the control panel.

SIZE (H*W*D):
135,5 x 31 x 27,5mm

WEIGHT:
0,12 Kg

CASE:
ABS



Functioning:

The device must be adjusted in order to signal a person entering the protected building, after approx. three steps. To reduce current consumption, it blocks after an alarm and only starts to detect again, following lack of movement in the environment for a few minutes. Particular positionings and adjustments allow to prevent detection of small animals, reducing protection: for safety reasons, it is however recommended to avoid the presence of animals in protected buildings.

Any sensors connected to the available input, are managed autonomously: the input has quick impulses count and its own alarm code, therefore it is recognised by the control panel in an independent manner by the volumetric protection.

As well as the intrusion alarm, the devices signal the tampering once event is verified; the operating status (supervision) and any low battery every 40 minutes: the control panel highlights these signals following arming and/or disarming.

Device local signals: alarm/test LED, which also signals low battery by quickly flashing for a few seconds.

Aesthetic solutions: white and brown colours; to camouflage the device by integrating it even more with the environment, appropriate plastic coverings in different shades wood and aluminium as illustrated are available.

Generality: this device is a volumetric detector which detects a moving intruder in the protected area, captivating the difference in temperature of the moving target respect to the background. The mirror technology used, widely known and diffused, makes Pir HT suitable for protecting a whole room. Pir HT has an input to connect another hard-wired sensor: this allows, as well as signalling movement in the room, to control a d/w fixture nearby, obtaining higher safety for the same price. The programming of the device on the control panel is easy and immediate. **Use features:** volumetric protection of inside rooms up to approx. 4 x 10m + input for other passive sensor. **Installation features:** the lack of wiring obligations favours the correct positioning, which is fundamental for the good functioning of these devices. Pir HT is fixed to the wall, preferably in a suitable corner of the room, at 1.5-2m high, using the support supplied. Pay attention to the adjustments, which must be adequate for the environment to be protected. **Accessories for intrusion detectors: 5961 universal joint** - This accessory can be used when it is required to point the volumetric detectors. Attention: save for installation mechanisms, the anti-removal protection is not available by using the joint. Given the features of the devices shown and the wireless installation flexibility, the use of a joint is not recommended for the safety of the system.

5517B/M WINDOWPIR HT - CURTAIN PASSIVE INFRARED DETECTOR



Power supply: 9V alkaline battery type GP1604A or equivalent, for an autonomy of approx. two years with normal use. Autonomy decreases sensibly in frequently used areas.

Anti-tampering: signals the opening of the device and its detachment from the wall.

Radio transmission: simultaneous DualBand frequency in accordance with EU law. Range suitable for use.

Control and test: when the device is open LED confirmation detection at every human movement is obtained. With operative system the test happens by causing an alarm and verifying the reception of the control panel.



SIZE (H*W*D):
135,5 x 31 x 27,5mm

WEIGHT:
0,12 Kg

CASE:
ABS



Functioning:

The device must be adjusted to minimum sensitivity, enough to detect a person crossing the passage. To reduce current consumption, it blocks after an alarm and only starts to detect again, following lack of nearby movement for a few minutes. Particular positionings and adjustments allow to prevent detection of small animals, reducing protection: for safety reasons, it is however recommended to avoid the presence of animals in protected buildings. Any sensors connected to the available input, are managed autonomously: the input has quick impulses count and its own alarm code, therefore it is recognised by the control panel in an independent manner by the volumetric protection. As well as the intrusion alarm, the devices signal the tampering once event is verified; the operating status (supervision) and any low battery every 40 minutes: the control panel highlights these signals following arming and/or disarming.

Device local signals: alarm/test LED, which also signals low battery by quickly flashing for a few seconds.

Aesthetic solutions: white and brown colours; to camouflage the device by integrating it even more with the environment, appropriate plastic coverings in different shades wood and aluminium as illustrated are available.

Generality: this device is a volumetric detector which detects a moving intruder in the protected area, captivating the difference in temperature of the moving target respect to the background. It follows a reliable intruder detector, based on widely known and diffused technologies. The particular curtain lens makes WindowPir particularly suitable to volumetrically protect access passages like doors and windows, even when they are open.

WindowPir has an input to connect another hard-wired sensor: this allows to obtain the passage signal + the relative fixture opening signal, therefore higher managing flexibility of the system and increased safety, at the same price. The programming of the device on the control panel is easy and immediate.

Use features: protection against the crossing of passages up to approx. 2 x 6 m + input for other passive sensor.

Installation features: the lack of wiring obligations favours the correct positioning, which is fundamental for the good functioning of these devices. WindowPir is fixed at the fixture jamb, facing the transiting area. Pay attention to the adjustments, which must be adequate for the environment to be protected.

5519 GLASS-BREAK DETECTOR



Power supply: 9V alkaline battery type GP1604A or equivalent, for an autonomy of approx. two years with normal use.

Anti-tampering: signals opening of the device.

Radio transmission: simultaneous DualBand frequency in accordance with EU law. Range suitable for use.

Control and test: a simple clap of the hands causes the switching on of the LED, to demonstrate that the device is active and functioning. Attention: this does not cause the actual alarm: if wanting to also verify the state of the alarm, breaking of a glass must be faked with mechanisms or use the appropriate test device.

SIZE (H*W*D):
80 x 108 x 43mm

WEIGHT:
0,16 Kg

CASE:
ABS



Functioning:

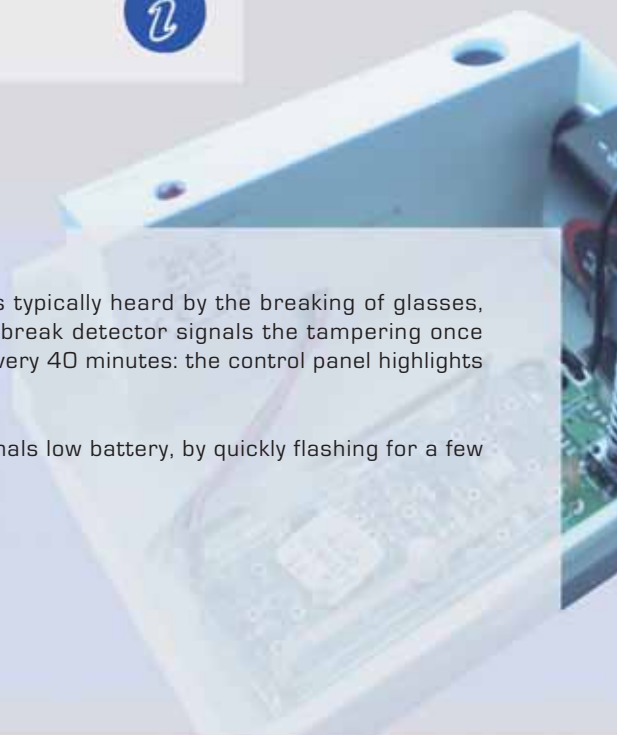
This device has a microphone which is sensible to acoustic frequencies typically heard by the breaking of glasses, porcelains and similar materials. As well as the intrusion alarm, Glass-break detector signals the tampering once event is verified; the operating status (supervision) and any low battery every 40 minutes: the control panel highlights these signals following arming and/or disarming.

Device local signals: this device has an alarm/test LED, which also signals low battery, by quickly flashing for a few seconds.

Generality: this device is built to signal the breaking of glass in a room.

Use features: volumetric protection through a microphone in rooms of approx. 6 x 4m or smaller.

Installation features: the lack of wiring obligations favours the correct positioning, which is fundamental for the good functioning of these device, which must be installed on the wall facing that with most windows, at a height higher than 2m.



5511 STARPIR HT - PASSIVE INFRARED DETECTOR (P.I.R.)



Power supply: 3 AA 1.5V batteries, for an autonomy of approx. two years with normal use. Autonomy decreases sensibly in frequently used areas.

Anti-tampering: signals the opening of the device and its detachment from the wall.

Radio transmission: simultaneous DualBand frequency in accordance with EU law. Range suitable for use.

Control and test: when the device is open LED confirmation detection at every human movement is obtained. With operative system the test happens by causing an alarm and verifying the reception of the control panel.

SIZE (H*W*D):
160 x 86 x 48,7mm

WEIGHT:
0,28 Kg

CASE::
ABS



Functioning:

The device is usually active and the adjustments must be such to signal a person entering the protected building, after approx. three steps. To reduce current consumption, it blocks after an alarm and only starts to detect again, following lack of movement for a few minutes. Particular positionings and adjustments allow to prevent detection of small animals, reducing protection: for safety reasons, it is however recommended to avoid the presence of animals in protected buildings.

As well as the intrusion alarm, the device signals the tampering once event is verified; the operating status (supervision) and any low battery every 40 minutes: the control panel highlights these signals following arming and/or disarming.

Device local signals: StarPir has an alarm/test LED, which also signals low battery, by quickly flashing for a few seconds.

Generality: this device is a volumetric detector which detects a moving intruder in the protected area, captivating the physical parameters typical of a person, mainly the temperature difference of the moving target respect to the background. It follows a reliable intruder detector, based on widely known and diffused technologies.

Use features: volumetric anti-intrusion protection of large rooms inside a building, up to approx. 6 x 12m.

Installation features: the lack of wiring obligations favours the correct positioning, which is fundamental for the good functioning of these devices. They are fixed to the wall, possibly in a buildings' suitable corner, at a height of approx. 2.2m. Pay attention to the adjustments, which must be adequate for the environment to be protected. The programming on the control panel is easy and immediate.

5516 DUALTECH HT - DOUBLE TECHNOLOGY DETECTOR (P.I.R.+RADAR)



Power supply: 3 AA 1.5V batteries, for an autonomy of approx. two years with normal use. Autonomy decreases sensibly in frequently used areas.

Anti-tampering: signals the opening of the device and its detachment from the wall.

Radio transmission: simultaneous DualBand frequency in accordance with EU law. Range suitable for use.

Control and test: when the device is open LED confirmation detection at every human movement is obtained. With operative system the test happens by causing an alarm and verifying the reception of the control panel.

SIZE (H*W*D):
160 x 86 x 48,7mm

WEIGHT:
0,33 Kg

CASE:
ABS



Functioning:

These devices are usually active and the adjustments must be such to signal a person entering the protected building, after approx. three steps. To reduce current consumption, the devices block after an alarm and only start to detect again, following lack of movement for a few minutes. Particular positionings and adjustments allow to prevent detection of small animals, reducing protection: for safety reasons, it is however recommended to avoid the presence of animals in protected buildings.

As well as the intrusion alarm, the devices signal the tampering once event is verified; the operating status (supervision) and any low battery every 40 minutes: the control panel highlights these signals following arming and/or disarming.

Device local signals: three-colour LED which highlights the functional aspects.

Generality: this device is a volumetric detector which detects an intruder moving in the protected area, captivating the physical parameters typical of a person, firstly the temperature different of the moving target respect to the background, subsequently, analyses the movement through an integrated radar, triggering the alarm in case of double positive confirmation. It is therefore doubly precise in discriminating any improper alarms, therefore more suitable in disturbed environments.

Use features: volumetric anti-intrusion protection of large rooms inside a building, up to approx. 6 x 12m.

Installation features: the lack of wiring obligations favours the correct positioning, which is fundamental for the good functioning of these devices. They are fixed to the wall, possibly in a buildings' suitable corner, at a height of approx. 2.2m. Pay attention to the adjustments, which must be adequate for the environment to be protected. The programming on the control panel is easy and immediate.

5414 SILENT PIR - FAN PASSIVE INFRARED DETECTOR (P.I.R.)

FOR OUTDOOR USE



Power supply: 3.6V 2.2Ah lithium battery, for an approx. two year autonomy with normal use. Autonomy decreases sensibly in frequently used areas.

Anti-tampering: signals the opening of the device and its detachment from the wall (if equipped with appropriate cover).

Radio transmission: simultaneous DualBand frequency in accordance with EU law. Range suitable for use.

Control and test: see specific instructions. With operative system the test happens by causing an alarm and verifying the reception of the control panel.

SIZE (H*W*D):
55 x 110 x 90mm

WEIGHT:
0,3 Kg

CASE:
ABS



Functioning:

The device must be adjusted to minimum sensitivity, enough to detect a person crossing the passage or protected area after 3-5 steps. To reduce current consumption, it blocks after an alarm and only starts to detect again, following lack of nearby movement for a few minutes. The correct positioning and adjustments enable to avoid the detection of small animals: avoid the presence of plants, high grass and other moving objects in the protected area. As well as the intrusion alarm, the devices signal the tampering once event is verified; the operating status (supervision) and any low battery every 40 minutes: the control panel highlights these signals following arming and/or disarming.

Local signals: SilentPir has alarm/test LED and buzzer which signal the need to replace the battery.

Accessories: appropriate plastic protection cover is available **code 5970**

Generality: this device is a watertight volumetric detector which detects a moving intruder in the protected area, captivating the difference in temperature of the moving target respect to the background. It follows a reliable intruder detector, based on widely known and diffused technologies. The particular fan lens makes SilentPir particularly suitable to volumetrically protect access passages like doors and windows from the outside, or compulsory passage points in outside areas.

Use features: anti-intrusion volumetric protection of open areas around the building in a sector of 90° x 6 m.
Attention: any detector placed outside is subject to improper alarms due to various fortuitousness which an accurate installation and management on control panel can reduce, if not eliminate: in these cases, the use of "outdoor alarm" function on the control panel is recommended.

Installation features: the lack of wiring obligations favours the correct positioning, which is fundamental for the good functioning of these devices. There are various and different applications for each system and a correct comprehension of the functioning and limits of the devices is indispensable. The most effective installation is with the device fixed under a roof and/or balcony and pointing towards the access to be protected, slanted enough to avoid small transiting animals.

5514 SILENT DUALTECH - DOUBLE TECHNOLOGY DETECTOR (P.I.R.+RADAR)

FOR OUTDOOR USE



Power supply: 3 AA 1.5V batteries, for an autonomy of approx. two years with normal use. Autonomy decreases sensibly in frequently used areas.

Anti-tampering: signals the opening of the device and its detachment from the wall.

Radio transmission: simultaneous DualBand frequency in accordance with EU law. Range suitable for use.

Control and test: see specific instructions. With operative system the test happens by causing an alarm and verifying the reception.

SIZE (H*W*D):
160 x 86 x 48,7mm

WEIGHT:
0,33 Kg

CASE:
ABS



Functioning:

The device must be adjusted to minimum sensitivity, enough to detect a person crossing the protected sector after 3-5 steps. To reduce current consumption, it blocks after an alarm and only starts to detect again, following lack of movement in the area for a few minutes. The correct positioning and adjustments enable to avoid the detection of small animals: avoid the presence of plants, high grass and other moving objects in the protected area. As well as the intrusion alarm, the devices signal the tampering once event is verified; the operating status (supervision) and any low battery every 40 minutes: the control panel highlights these signals following arming and/or disarming.

Device local signals: three-colour LED which highlights the functional aspects.

Generality: this device is a watertight volumetric detector which detects a moving intruder in the fan shaped protected area, captivating the difference in temperature of the moving target respect to the background, therefore activating a Doppler confirmation control: if this is positive, the alarm is triggered. In this way, Silent DualTech is highly selective in discriminating any improper alarms, therefore more suitable in disturbed environments and, in general, the outside.

Use features: anti-intrusion volumetric protection of open areas around the building in a sector of 70° x 12 m.
Attention: any detector placed outside is subject to improper alarms due to various fortuitousness which an accurate installation and management on control panel can reduce, if not eliminate: in these cases, the use of "outdoor alarm" function on the control panel is recommended.

Installation features: the lack of wiring obligations favours the correct positioning, which is fundamental for the good functioning of these devices. There are various and different applications for each system and a correct comprehension of the functioning and limits of the devices is indispensable. The most effective installation is with the device fixed on a wall at a height of approx. 0.8m, better if under a roof and/or balcony, pointed towards the places of transit.

5410 RADAR HT – RADAR DETECTOR

OUTDOOR USE (PROTECTED FROM BAD WEATHER) >>>



Power supply: 3 LR14 1.5V alkaline batteries, for an autonomy of approx. two years with normal use. Autonomy decreases sensibly in frequently used areas.

Anti-tampering: signals opening of the device.

Radio transmission: simultaneous DualBand frequency in accordance with EU law. Range suitable for use.

Control and test: see specific instructions. With operative system the test happens by causing an alarm and verifying the reception.

Functioning [5410]:

The device must be adjusted to minimum sensitivity, enough to detect a person crossing the protected sector after 3-5 steps. To reduce current consumption, it blocks after an alarm and only starts to detect again, following lack of movement in the area for a few minutes. Avoid the presence of plants, high grass and other moving objects in the protected area, which are certain cause of alarm.

As well as the intrusion alarm, the device signals the tampering once event is verified; the operating status (supervision) and any low batteries every 40 minutes: the control panel highlights these signals following arming and/or disarming.

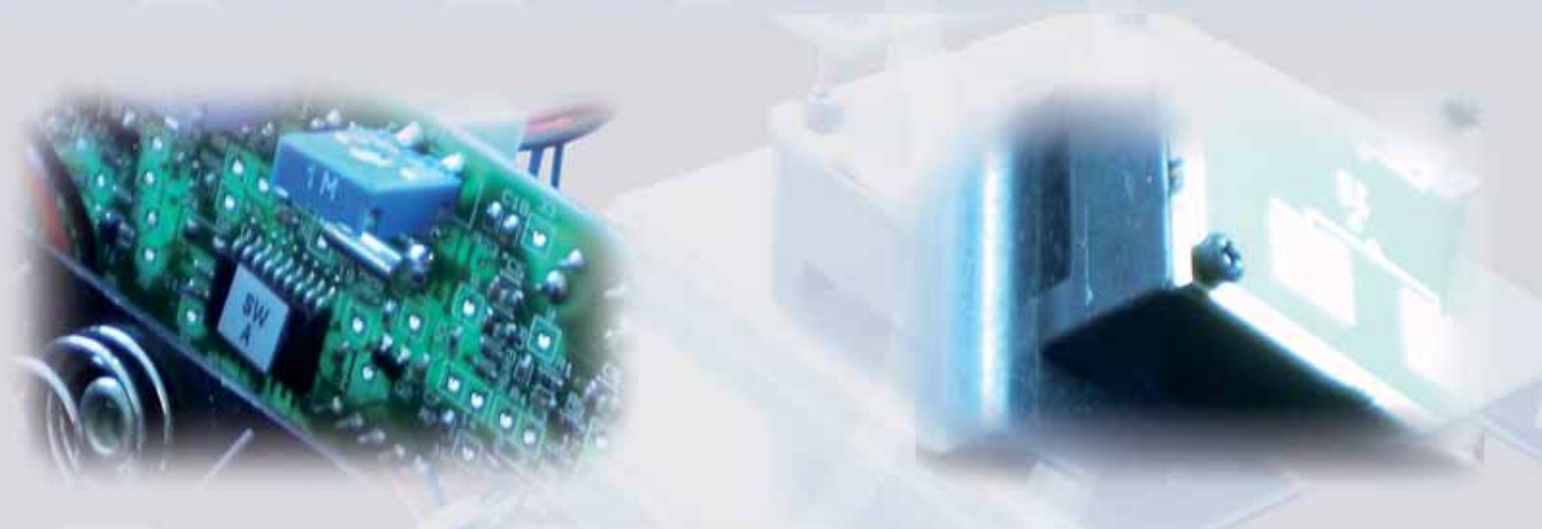
Device local signals [5410]: red LED highlights the functional aspects.

Generality [5410]: this device is a volumetric detector which detects moving masses in the ovoid shaped protected volume, activating a Doppler control like a real and proper radar. It is sensible to movements of any nature, therefore its protection reliability is very high: on the contrary, equally as high the possibility of improper alarms due to fortuitous events.

Use features [5410]: anti-intrusion volumetric protection of inside and outside areas at high risk in an approx. volume of 5x3x12m, in a crushed egg shape. Attention: any detector placed outside is subject to improper alarms due to various fortuitousness which an accurate installation and management on control panel can reduce, if not eliminate: in these cases, the use of "outdoor alarm" function on the control panel is recommended.

Installation features [5410]: the lack of wiring obligations favours the correct positioning, which is fundamental for the good functioning of these devices. There are various and different applications for each system and a correct comprehension of the functioning and limits of the devices is indispensable. The most effective installation of Wavebeam used without monitor, is with the device fixed at a height of approx. 2.5m on a wall rigorously protected from bad weather, pointed towards the zone to be protected, bearing in mind that the highest sensitivity is obtained for movement from and to the same device. The protected zone

5410M MONITOR RADAR HT - RADAR DETECTOR



Functioning (5410M):

The coupling of the two devices means a first alarm issued by Wavebeam when the target is nearing and a second alarm issued by the Monitor when the target crosses the space between the two: the two alarms can be managed in AND from the control panel or separately, depending on the requirement. The Monitor also signals tampering, operating status and low batteries.

Device local signals (5410M): red LED highlights the functional aspects.

SIZE (H*W*D):
70 x 95 x 140mm

WEIGHT:
0,6 Kg

CASE:
ABS



must be absolutely free from any object susceptible to fortuitous movement and, if outside, covered from rain or snow.

Generality (5410M): this device only works coupled with Wavebeam, as a control monitor. It captivates the electro-magnetic waves released by Wavebeam, signalling the progressive decrease caused by a mass interposing between the two.

Use features (5410M): anti-intrusion volumetric protection of accesses at high risk in a cigar-shaped volume of R2x12m. Attention: any detector placed outside is subject to improper alarms due to various fortuitousness which an accurate installation and management on control panel can reduce, if not eliminate: in these cases, the use of "outdoor alarm" function on the control panel is recommended.

Installation features (5410M): see Wavebeam. The most effective installation of the Wavebeam + monitor, is with the devices fixed facing one another, at a distance of approx. 10-12m and at a height of approx. 1.5m, on walls or frontal solid supports, without walls or obstacles parallel to the protected zone for at least 60cm. The protected zone must be absolutely free from any object susceptible to fortuitous movement and, if outside, covered from rain or snow.

5513B3 LASERBEAM HT DT - DOUBLE TECHNOLOGY BARRIER

(ACTIVE I.R.+ RADAR)

OUTDOOR USE (PROTECTED FROM BAD WEATHER)

Power supply: 6 LR14 1.5V alkaline batteries, for an autonomy of nearly two years with normal use.

Anti-tampering: signals opening of the batteries' compartment. With system armed, protection against remove is implicit.

Radio transmission: simultaneous DualBand frequency in accordance with EU law. Range suitable for use.

Control and test: when the batteries compartment is open, there is acoustic confirmation of the ray's interruption (continuous beep) and of the radar alarm (intermittent beep). With operative system the test happens by causing an alarm and verifying the reception of the control panel.

SIZE (H*W*D):
950 x 33 x 33mm

WEIGHT:
1 Kg

CASE:
ABS



Functions of the device:

- 1) immediate arming of the radar part following the interruption of one or more rays (events not signalled via radio).
- 2) radar check and alarm transmission to control panel in case of persons moving inside area of transit.
- 3) signal via radio of restored calm state (end alarm).
- 4) signal via radio of tampering once event is verified; of low battery and operating status (supervision) every 40 minutes.

Device local signals: none.

Accessories: a further 4 rays barrier is available **(code 5413 E4 supplied with batteries)** which prolongs protection up to a height of approx. 2m and automatically functions once connected to the basic barrier. Equally available, an additional battery box **(code 5977 supplied with batteries)** which doubles the autonomy of barrier 5513, if installed without the above described extension.

Generality: this device has two thin bars, approx. 1m high, to be installed at the sides of a d/w fixture; three infrared rays at different heights are created between the bars, which the passing of a person interrupts: subsequently, a radar controlled is activated, which captivates the intruder's movement therefore setting off an alarm. Using two different detecting technologies in the same device, the possibilities of improper alarm due to possible fortuitousness, are reduced.

Use features: protection of passages up to 6m in an alarm system, both inside and outside, if protected from bad weather.

Installation features: the thin structure of the devices makes the installation easy without creating aesthetic problems, but care must be taken in perfectly locating, face to face, the two bars. By strictly following the instructions programming is easy. It is recommended not to expose the devices to direct sunlight, in case remedy through installation mechanisms (opaque borders at the exposed sides of the bars).

5424 DUST DETECTOR - FINE DUST DETECTOR

5520 WATER ALARM - FLOODING PASSIVE SENSOR



Power supply (5424): 9V alkaline battery type GP1604A or equivalent, for an autonomy of approx. two years with normal use. [autonomy sensibly decreases in case of frequent alarms].

Anti-tampering (5424): none.

Radio transmission (5424): simultaneous DualBand frequency in accordance with EU law. Range suitable for use.

Control and test (5424): the device is equipped with self-diagnosis and signals eventual own anomalies. It is possible to test it, creating smoke near the device: an alarm is triggered, which lasts as long as there is smoke inside the closed room (various minutes); to end an alarm caused in this way, blow sufficient clean air in the detector.

Power supply (5520): none

Anti-tampering (5520): none.

SIZE (Ø* H)
110 x 65mm (5424)

SIZE (H*W*D):
80 x 35 x 16mm (5520)

WEIGHT:
0,1 Kg (5424)
0,03 Kg (5520)

CASE:
ABS



Functioning (5424):

This device has an infrared photo-optical detector cased in a dark chamber: smoke reduces the infrared signal until it causes an alarm. Attention: kitchen smoke, concentrated water steam and other similar dust can cause untimely alarms. As well as the intrusion alarm, Dust Detector signals the operating status (supervision) and any low battery every 40 minutes: the control panel highlights these signals following arming and/or disarming.

Installation and functioning (5520):

This device has a body which contains two plaques in anti-oxidant material, connected to two clamps. Install the the device at the wall with the sensitive plaques downwards, at the desired height to signal the level of liquids. Connect to Sensor HT, obviously positioned higher, through the relative clamps



Generality (5424): this device is built to detect think dust produced by combustion.

Use features (5424): signals various type of active combustion.

Installation features (5424): the lack of wiring obligations favours the correct positioning, which is fundamental for the good functioning of these device, which is installed at the highest point of the ceiling, up to a maximum of 3m in 6 x 6m rooms or similar.

Generality (5520): this device is built to detect the presence of water or liquids in general.

Use features (5520): flooding and/or water or liquids level signal.

Installation features (5520): the device works connected to Sensor HT code 5515

0416 TX p.c.b. - 0417 Radar (AND) + TX p.c.b.

FOR OUTSIDE DETECTORS



Power supply: granted that the power supply of the p.c.b. must be such to also allow powering the detector used, the following features are prepared:

0416 TX Board: 9V alkaline battery type GP1604A or equivalent, for an autonomy of approx. 18 months with normal use.

0417 Radar Board + TX: 3 AA 1.5V batteries, for an autonomy of approx. two years with normal use.

In both cases the autonomy also decreases sensibly in frequently used protected areas.

Anti-tampering: signals opening of the device.

Radio transmission: simultaneous DualBand frequency in accordance with EU law. Range suitable for use.

Control and test: refer to the device features in which the Silentron p.c.b. are placed.

Functioning:

These devices are usually active and the adjustments must be such to signal a person entering the protected zones after three - five steps. To reduce current consumption, the devices block after an alarm and only start to detect again, following lack of movement for a few minutes. The correct positioning and adjustments enable to avoid the detection of small animals: avoid the presence of plants, high grass and other moving objects in the protected area. As well as the intrusion alarm, the devices signal the tampering once event is verified; the operating status (supervision) and any low battery every 40 minutes: the control panel highlights these signals following arming and/or disarming.

Device local signals: the devices usually have alarm/test LEDs.

Generality: these electronic p.c.b. allow to use particular on the market detectors, not manufactured by us, making them compatible with Silentron control panels and detectors. One of these (0416) is made of only a transmitter, therefore the features of the detector used remain the same. The other (0417) also has a radar detector which works in AND with non Silentron detector, constituting a double technology, highly reliable, device.

Use features: anti-intrusion volumetric protection of open areas around the building (see instructions of detector used). Attention: any detector placed outside is highly subject to improper alarms due to various fortuitousness which only an accurate installation and management on control panel can reduce, if not eliminate.

Installation features: the lack of wiring obligations favours the correct positioning, which is fundamental for the good functioning of these devices. There are various and different installation solutions for each system: a correct comprehension of the functioning and limits of the devices is indispensable to obtain effective results. Pay attention to the adjustments, which must be adequate to the areas to be protected, which must be totally clear and solid (not grass). The programming on the control panel is easy and immediate: it is highly recommended to use the "outdoor alarm" function on the control panel with this type of detectors.

5409 SENTINEL - RADIO SIGNALS REPEATER



Power supply: 230V CA 50/60Hz with charger for internal rechargeable battery 6V DC 1.2Ah supplied, for an approx. 36 hours autonomy without current.

Anti-tampering: signals the opening of the device container

Radio transmission: simultaneous DualBand frequency in accordance with EU law, with display of radio signal received; anti-scanner check and supervision of all peripheral (excluded remote controls); range suitable for use.

Control and test: transmission indication LED.

SIZE (H*W*D):
66 x 126 x 48mm

WEIGHT:
0,2 Kg

CASE:
ABS



Functions: the device repeats the signals of the remote controls and/or keypads, of the detectors, of the alarm control panel. Each function can be excluded in order to limits its use according to need. It also has an NC alarm input which can be used to transmit to control panel from particularly distant zones (for example garages outside the buildings) or to protect the same device.

Attention: save for in particular cases, it is recommended not to install more than one device for each system. Remember that, unless excluded, all transmitter signals at useful range for Sentinel are repeated: this means possible double alarms and an increase in consumption of all battery operated receiving devices (control panels, sirens and various signalling devices), reducing autonomy.

Generality: this device represents the solution to any radio range problem in Silentron installations in compliance with the instructions of the individual products. It receives and repeats, amplifying them, the system radio signals, therefore extending the range of one or more device.

Use features: anti-intrusion alarm system with inside and outside detectors where the structures and/or distances require it.

Installation features: the device must be placed between the transmitters which are not received and the alarm control panel, closer to the first than to the second. In difficult situations, tests must be carried out, to find the most suitable location. Sentinel can be hidden (for example underneath furniture) and is connected to the mains.

5151 VOCALPHONE PSTN / 5152 GSM / 5150 PSTN+GSM



Power supply: 10-14V CC DC – Variable absorption depending on models (see technical documentation)

Anti-tampering: signals the opening of the device container and the detachment from wall (complete version).

Control and test: implicit in the functioning.

SIZE (H*W*D):
200 x 307 x 53mm

PESO:
1 Kg

BOX:
ABS



Alarms remote transmission: 4 vocal messages programmable on the device + 4 programmable SMS (one, the other or both functions depending on the models), transmitted to 63 programmable numbers. Check SIM expiry date; check remaining credit; transmission of Contact ID digital protocol suitable for remote security systems.

Antimasking GSM: automatic switch on and off every 12 hours (only models with GSM).

Home automation: possibility of telephone control of two relays with free exchange.

Local signals: display for programming and control acoustic signals.

Programming : simple operations through 16 keys keypad.

RADIO CONTROLLED VERSIONS

Versions equipped with DualBand receiver for radio control of the messages transmission inputs are available upon request, which can be activated with different transmitter models. Such devices can also be supplied in 100% wireless version, powered by batteries therefore independent from the mains. For further information contact the Silentron Technical and Sales Service.

Generality: These devices allow the transmission to different programmed telephone numbers of pre-recorded messages, both vocal and SMS for check/alarm. They can be supplied in an elegant outside container or in a version suitable for being placed inside other devices (see price list).

Use features: alarm systems and/or every type of signal and/or automatic requests for assistance, with possibility to activate the electrical equipment at a distance via telephone.

Installation features: wall or inside other devices which allow to have GSM field.

5143 VOCALPHONE JUNIOR - GSM



Power supply: 10-14V DC – 70mA absorption in stand-by – 300mA in communication

Anti-tampering: signals opening of the device container.

Control and test: implicit in the functioning.

SIZE (H*W*D):
125 x 64 x 45mm

WEIGHT:
0,18 Kg

CASE:
ABS



Alarms remote transmission: 4 vocal messages programmable on the device + 4 programmable SMS, transmitted to 9 programmable numbers. Check of SIM card; check remaining credit.

Antimasking GSM: automatic switch on and off every 12 hours.

Home automation: control possibility of a relay with free exchange via telephone (open gate or other)

Local signals: 4 inside LEDS for the programming + 4 outside LED for functional control + no GSM field output.

Generality: Junior is the smallest and convenient GSM automatic telephone transmitter on the market. It can be used to transmit, following various events, recorded vocal messages and SMS to programmed telephone numbers.

Use features: alarm systems and/or every type of signal and/or automatic requests for assistance, with possibility to activate the electrical equipment at a distance via telephone.

Installation features: wall or inside other devices which allow to have GSM field.

5541 RX 1 CAN. RADIOSWITCH / 5542 RX MOTOR RADIOSWITCH RECEIVERS FOR HOME AUTOMATION FUNCTIONS



Power supply: 230V AC - negligible absorption.

Radio reception: 433MHz mono frequency in accordance with EU law.

SIZE (H*W*D):
40 x 18 x 33mm

WEIGHT:
0,03 Kg

CASE:
ABS



Programmable peripherals: up to 32 , with different functions also (monostable - bistable - timed).

Outputs 5541: 1 free exchange from potential, programmable depending on use. Contacts load 100mA (pre-arrange servo relay where required).

Local signals: programming LED.

Note: model 5541 is suitable for general uses, whereas model 5542 is specifically used to control motorised rolling window shutters and/or rolling door shutters.

Generality: these devices receive signals via radio from all Silentron transmitters devices, therefore remote controls, detectors, control panels, supplying an output for various uses.

Use features: radio controls reception on behalf of all Silentron transmitters to control 230V AC devices of various type (switching on lights, home appliances, pumps and so on).

Installation features: these receivers are installed where signal reception is required, therefore in radio range respect to transmitters, bearing in mind that they have integrated aerial, therefore they cannot operate inside metal containers. The very reduced dimensions allow to install them directly in the terminal boxes of the electrical system.

5555 TX 4/ 1859 PCK 9 - 4/9 CHANNELS REMOTE CONTROL TRANSMITTERS FOR HOME AUTOMATION FUNCTIONS



Power supply (5555): 230V AC - negligible absorption

Power supply (1859): 2 lithium batteries 3V type CR 2016, for an autonomy of approx. two years with normal use.

Radio transmission: 433MHz mono frequency in accordance with EU law. Range suitable for use.

Control and test: the test is implicit in every operation through the confirmation of the sent control.

SIZE (H*W*D):
40 x 18 x 33mm (5555)
40 x 33 x 18mm (1859)

WEIGHT:
0,03 Kg

CASE:
ABS



Functions of the device (5555): transmission of 4 different controls via radio practicable through any button.

Functions of the device (1859):

- 1) total arming control to control panel (key 1) or partial (key 3 - zones A+B), or disarming (key 2).
- 2) alarm control to control panel or home automation activation to RX receivers (keys as requested, opportunely programmable).

Device local signals (1859): transmission LED

Generality and use features (5555): this transmitter is used wherever a further supplementary switch is required to control electrical loads without laying new wires.

Installation features (5555): the device is installed where control is required, in radio range respect to receivers used, bearing in mind it has an integrated aerial, therefore it cannot operate inside metal containers. The very reduced dimensions allow to install it directly in the terminal boxes of the electrical system, but not with metal plaques, and controlling it with any button.

Generality and use features (1859): this mono directional remote control is useful to group different functions in one portable device. In fact, it allows to control the alarm control panel, any automatic gates, switching on of lights and other automations.

5458 R-EVOLUTION 4 / 5459 R-EVOLUTION 12 / 5051 RX 1 RECEIVERS FOR RADIO EXPANSIONS



Power supply: 12V DC - variable absorption depending on the number of outputs, however, within 70mA max.

Anti-tampering: signals opening of the device container (5458-59)

Radio reception: simultaneous DualBand frequency in accordance with EU law, with display of radio signal received (5051 433MHz monofrequency); antiscanner check and supervision of all peripheral (5458-59 models - excluded remote controls); range suitable for use.

Control and test: LED displaying reception and relative type of signal received (see technical instructions).

SIZE (H * W * D):
125 x 64 x 45mm (5458)
110 x 161 x 30mm (5459)
45 x 65 x 20mm (5051)

WEIGHT:
0,09 Kg (5458)
0,4 Kg (5459)
0,05 Kg (5051)

CASE:
ABS

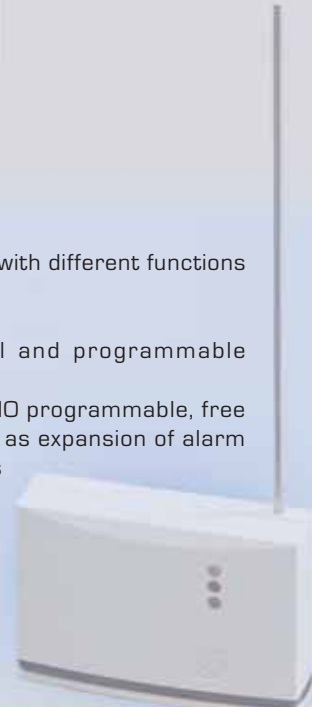


Programmable peripherals: up to 32 - in 5458-59 models also with different functions (monostable - bistable - timed).

Outputs 5051: 2 - NC/NO free exchange from potential and programmable depending on use.

Outputs 5458-5459: 4+2 in 5458, 12+4 in 5459, all NC or NO programmable, free from potential, max 100mA, with R100 Ohm standard. For use as expansion of alarm system, tampering, supervision, low battery, radio disturbances outputs are available.

Local signals: all main events are displayed through LED. The storing of last event with input for reset is foreseen.



Generality: these devices receive signals via radio from all Silentron transmitting devices, therefore remote controls, detectors, control panels, supplying various uses, also depending on the type of transmitter received.

Use features: expansion via radio of existing hard-wired anti-intrusion alarm systems; gates opening, switching on lights remotely controlled by one or more points; various uses which require a wireless connection between one or more transmitting device and a receiver. The choice between the three models depends on the number of outputs required (NC and/or NO).

Installation features: the Silentron receivers are installed where signal reception is required, therefore in radio range respect to transmitters, bearing in mind that they have integrated aerial, therefore they cannot operate inside metal containers.