

MetaSystem HomeAlarm

C11-C12 systems



META
SYSTEM®

WIRE FREE SYSTEM



Unmistakable _____ Safety



In a society overrun by the usual variety of home alarm systems,
there is finally something new:
the wire-free **MetaSystem HomeAlarm C11 and C12**.
The flashing circular outdoor siren is the unmistakable sign that one of these
systems is guarding your home.

With a particularly innovative and attractive design,
it acts as a perfect deterrent but this is only one of the many "extras"
that **MetaSystem HomeAlarm** possesses.

A favourable quality to price ratio thanks to MetaSystem's tried
and tested experience in the car security and alarm sector,
quick and simple installation with no wires (the peripheral devices are
all linked by radio signals coded by auto-learning process), plus a full range
of protection and alarm signalling modules (sensors, sirens, telephone diallers)
make this home alarm system an exclusive and avant garde product.

WIRE FREE SYSTEM

MetaSystem Technology



RESEARCH AND DEVELOPMENT

The Research and Development department uses computerised methods and avant-garde technology to meet and often anticipate specific demands from the market. The work carried out in this department is very comprehensive as the staffs are involved with all aspects of project development. MetaSystem has its own metrology laboratory where all tests required, to have the products approved, are carried out. Electromagnetic compatibility and susceptibility are checked and analysed (CE self-certification) with the restrictive civil, industrial and automotive standards enforced by the various countries.



POWER SUPPLY ELECTRONICS

This sector mainly deals with power supply systems, particularly uninterruptible units. These products are the ideal solution when it comes to providing power for all types of electronic equipment in the computer, telecommunications, security and industrial automation fields. MetaSystem is at the very top of its field and offers

a family of patented expandable, modular products able to meet the most varied market demands.

HIGH FREQUENCY EQUIPMENT

The philosophy of MetaSystem has been indelibly marked by the experience acquired by this division which, right from the very time the company was established (1973), has been planning and producing solid state transmitters with power ratings ranging from to 10 kW.

This experience gives an unrivalled and competitive advantage when it comes to the transmission of radio-frequency signals used for both automotive and domestic purposes.



CONSUMER ELECTRONICS

Widely-used, highly technological products are the strong point of MetaSystem which designs and produces alarms and anti-theft systems for cars and motorcycles, active safety systems for vehicles (reversing sensors for parking, vehicle status signalling pagers, road circulation aids), electronic antennas for cars and RF amplifiers. Experience with these types of product has been of fundamental importance for MetaSystem, allowing the company to begin work in the complex field of home and professional alarm systems in order to be able to offer reliable and competitive products.



AUTOMOTIVE SECTOR

This is the division that plans and produces electronic devices for Car Manufacturers (OEM) to install on-line. Competence, on-going research, certifications, automated production processes and massive investments have allowed MetaSystem to become extremely successful in a market known to be difficult to penetrate due to the highest technological requirements required by its customers. The current range of Automotive products includes immobilisers, remote monitoring and control devices, ultrasonic volumetric protection units, alarm systems, monitoring devices for air conditioners and Alarm Sirens with serial connections.



MetaSystem Quality



CERTIFICATION OF THE QUALITY SYSTEM

MetaSystem has striven for quality for many years, knowing that the future can only be faced through utmost efficiency. This is why each individual activity is carried out in compliance with the criteria methods defined in the Quality Manual, Procedure Manuals the Relative Work Instructions.

To confirm the validity of this company policy, since 1996 the Quality System of MetaSystem has been ISO 9001 certified (planning - production - marketing) by a primary European authority, DET NORSKE VERITAS. Increasingly closer collaboration with car manufacturers has also allowed the company to develop its own Quality System and to obtain AVSQ94 certification (required in order to be accredited as suppliers to car manufacturers).

SCHUH optic test



All MetaSystem products are fully tried and tested by computerised systems. To obtain quality, reliability and efficiency without penalising costs, the production and testing processes are considered of primary importance right planning phase.

QUALITY CONTROL

The products are designed to optimise all the different processing phases right through final testing. To constantly improve the production standards, all boards are normally subjected to a computerised optic test. Automation of the TESTING procedures guarantees reliability and repeatability of the specifications.

The tests researched and set-up by MetaSystem's R & D department guarantee a personalised and flexible test phase that assures Total Quality.

Automotive test

QUALITY



C11

WIRE FREE

Alarm control unit with electromagnetic siren, passive infrared volumetric sensor, coded radio frequency and auto-learning system (to expand the number of protection sensors or alarm signalling devices) and battery back-up system (during a power failure, the C11 has more than 12 hours of autonomy).

Besides detecting alarms, the C11 can handle up to 16 wire-free remote devices (with a different code) by means of coded radio signals. The alarm control unit can be used on its own to protect small rooms that do not need other sensors, or can be combined with remote passive infrared volumetric sensors and/or peripheral sensors (shock and magnetic sensors), outdoor sirens (either wired or remote controlled) and telephone diallers that can also be used for tele-assistance purposes.

The remote control of the C11 allows the user to choose between total or partial arming of the alarm system (it is possible, for example, to activate only the peripheral sensors when someone remains in the house) and can activate the "panic" function even when



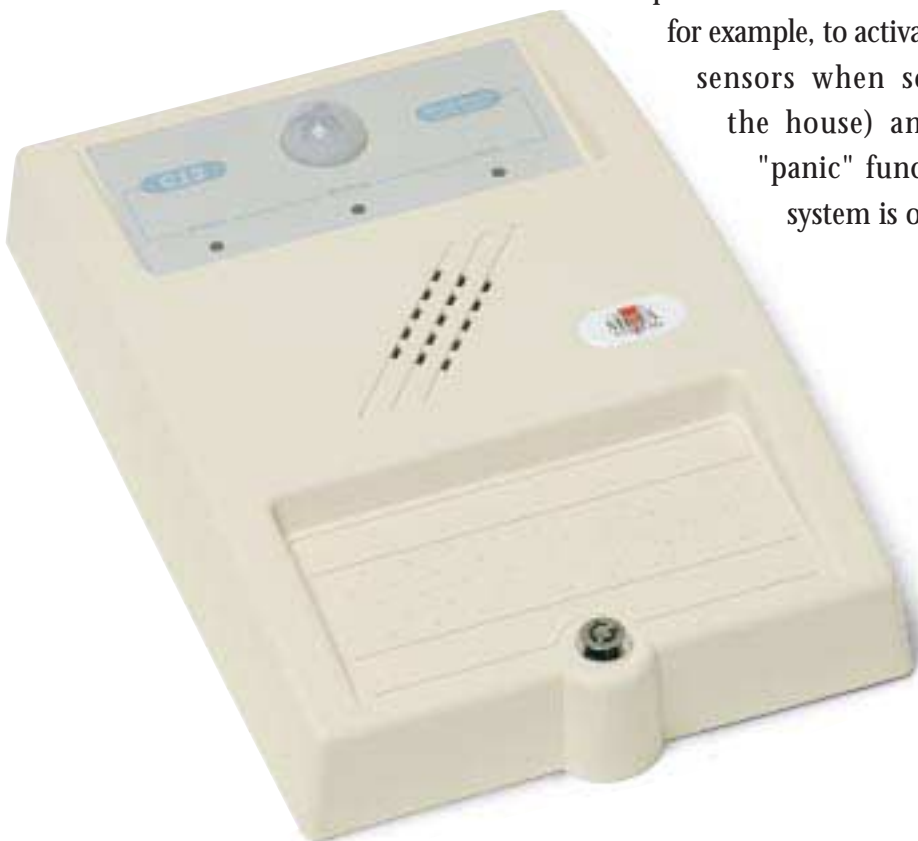
Alarm control unit with piezoelectric siren, passive infrared volumetric sensor (excludable), anti-tampering switch, coded radio-frequency and auto-learning system expand the number of protection sensors, alarm signalling devices and remote status LEDs) and battery back-up system (during a power failure, the C12 has more than 12 hours of autonomy and this time can be extended to 72 hours if further NiMH batteries are installed).

Besides detecting alarms, the C12 can handle up to 16 wire-free remote devices (with a different code) by means of coded radio signals. The alarm control unit can be used on its own to protect small rooms that do not need other sensors, or can be combined with remote passive infrared volumetric sensors and/or peripheral sensors (shock and magnetic sensors), outdoor sirens (either wired or remote controlled) and telephone diallers that can also be used for tele-assistance purposes.

The remote control of the C12 allows the user to choose between total or partial operation of the alarm system (it is possible, for example, to activate only the peripheral sensors when someone remain in the house) and can activate the "panic" function even when the system is off.

C12

WIRE FREE



C20 INFRARED VOLUMETRIC SENSOR



Wire-free device to protect small areas thanks to a passive infrared sensor that detects the heat produced by a moving human body.

Sensor C20 transmits the alarm signal to the alarm control unit by means of coded radio signals and is powered by a 9V alkaline battery of the type normally available from retail shops.

It has an LED to signal alarm active and low battery status, a self-protecting microswitch and a practical positionable support (C220, optional).



C21 and C21L INFRARED VOLUMETRIC SENSORS



Wire-free device to protect given areas thanks to passive infrared sensor that detects the heat produced by a moving human body.

Sensors C21 and C21L transmit the alarm signal to the alarm control unit by means of coded radio signals and are powered by a 9V alkaline battery of the type normally available from retail shops.

It has an LED to signal alarm active and low battery status, a self-protecting microswitch and a practical positionable support (C220, optional).

The characteristics of the C21L version are identical to those of the C21 sensor, except having an optimised range coverage for use



C22 MAGNETIC AND SHOCK PERIPHERAL DUAL SENSOR



Wire-free device to protect doors, windows and glazed areas by detecting both attempts to open (with a magnetic sensor) or breaking (with a piezoelectric shock sensor).

The C22 Dual sensor transmits alarm signals to the alarm control unit by means of coded radio signals and is powered by two 3V lithium batteries (supplied with the sensor) of the type normally available from retail shops. It has a trimmer to regulate the level of sensitivity



C25 SHOCK PERIPHERAL SENSOR



Wire-free device to protect windows and glazed areas by detecting breakage (by means of a piezoelectric shock sensor).

Shock sensor C25 transmits alarm signals to the alarm control unit by means of coded radio signals and is powered by two 3V-lithium batteries (supplied with the sensor) of the type normally available from retail shops.

It has a trimmer to regulate the level of sensitivity to vibration and impact.



C27 MAGNETIC PERIPHERAL SENSOR



Wire-free device able to detect attempts to open doors and windows (by means of a magnetic sensor).

Magnetic sensor C27 transmits alarm signals to the alarm control unit by means of coded radio signals and is powered by two 3V lithium batteries (supplied with the sensor) of



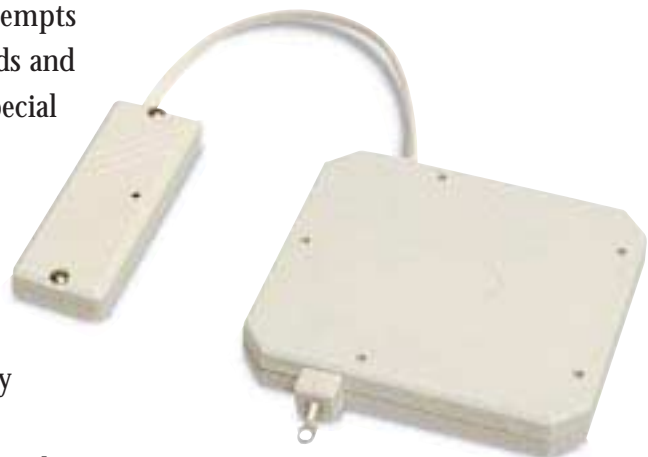
C28 ROLLER BLIND PERIPHERAL SENSOR



Wire-free device that detects attempts to raise or lower (at least 6 cm) roller blinds and vertically sliding blinds by means of a special retracting cord sensor.

Roller blind sensor C28 transmits alarm signals to the alarm control unit by means of coded radio signals and is powered by two 3V-lithium batteries (supplied with the sensor) of the type normally available from retail shops.

The sensor is also equipped with wind-shielding protection to prevent false alarms if the blind moves for natural reasons.



C33 WIRED FLASHING OUTDOOR SIREN



A deterrent device with high-efficiency LED indicator light and electromagnetic siren for outdoor installation.

Flashing siren C33 is wired to the C11 or C12 alarm control unit and includes a rechargeable internal battery that ensures it continues to remain operative even during a lengthy power cut.

The device either activates following a command from the C11 or C12 alarm control unit or on its own if an attempt to force open the cover is detected by the special self-protecting device.

The product is completely hermetic (totally resin-treated electronic circuits), while the optic and acoustic signalling devices and attractive design make it unique.



C35 REMOTE CONTROLLED FLASHING OUTDOOR SIREN

A deterrent device with high-efficiency LED indicator light and electromagnetic siren for outdoor installation.

Flashing siren C35 is powered by mains electricity (230V) and has a rechargeable internal battery that ensures it continues to remain operative even during a lengthy power cut.

The device either activates following a command from the C11 or C12 alarm control unit by means of coded radio signals generated by transmitter M100P or on its own if an attempt to force open the cover is detected by the special self-protecting device.

The product is completely hermetic (totally resin-treated electronic circuits), while the optic and acoustic signalling devices are of an attractive design making it unique.



SOLAR CELL KIT FOR C35 SIREN



Self-generating energy source able to charge the battery in siren C35 and power the electronic circuit without dedicated wired connections being required.

Use of this accessory allows the siren to be installed in the most suitable place and in the easiest possible way.





Self-contained device (can either be used on its own or in combination with an alarm system) that automatically transmits a telephone message if:

- an **intrusion alarm** has been activated by the coded radio signal from C11 or C12 alarm control unit;
- a **silent alarm** has been activated by a dedicated remote control in the case of aggression or robbery in commercial enterprises open to the public;
- a **request for assistance** has been activated by a dedicated remote control in the case of elderly, disabled or sick persons.

Telephone dialler C43 "Tranquillo" is powered by mains electricity (230V) and also has a rechargeable internal battery that ensures it continues to remain operative even during a lengthy power cut.

The microphone and display of telephone dialler C43 "Tranquillo" allows 2 messages to be recorded (alarm and assistance) along with the relevant telephone numbers of the persons to be informed of such events (4+4). There is also a

hands-free listening function if an alarm is in progress plus hands-free speaking function to make assistance requests during incoming phone calls.



C319 REMOTE STATUS LED



This device can operate at either 12 or 24V (normally the entrance doorbell voltage rating) and signals the armed or disarmed status of the C12 alarm control unit by means of LEDs.

The remote status LED C319 is particularly useful since, besides indicating the status of the C12 alarm control unit, it also



C388 "HOME THEATRE" PRESENCE SIMULATOR

This device can simulate the presence of persons in a house by timed and random activation of the electrical appliances to which it is connected.

The C12 alarm control unit can activate or deactivate C388 by means of coded radio signals. When the alarm system is off, C388 acts like a normal power socket.



NOTE: C319 and C388 can only be used with C12 alarm control unit



Remote control M550 allows the user to choose between total or partial arming of the alarm system controlled by a C11 or C12 control unit (for example, it is possible to arm only the peripheral sensor or only the volumetric sensors) and can activate the "panic" function even when the system is off (the control unit accesses the alarm status by activating its internal siren, the outdoor one and the telephone dialler if installed).

Light weight and extremely small size, make this remote control the ideal accessory to

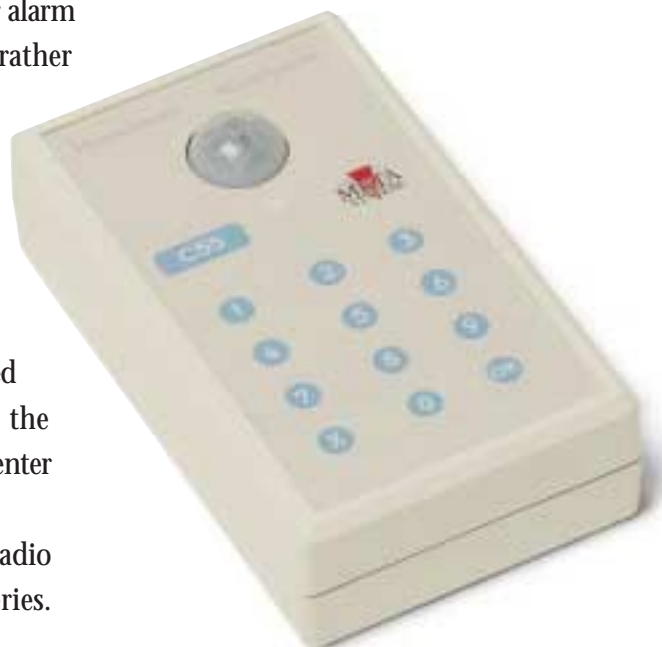


C55 KEYPAD WITH IR

C55 has been designed to meet the needs of people who wish to arm or disarm their alarm systems by means of a numeric keypad rather than the remote control supplied with the alarm central.

The keypad is self-protected by a passive infrared sensor which, when a movement is detected in its vicinity, delays alarm transmission to the alarm control unit by the few seconds needed to digitize the code required to disarm the system on the keypad. The user can easily enter their own four-figure code.

The C55 is controlled by coded radio signals and is powered by internal batteries.



Technical specifications of the Components

ALARM CONTROL UNITS

| Technical Specifications | C11 ALARM CONTROL UNIT | C12 ALARM CONTROL UNIT |
|--|---|--|
| Power supply | 230 VAC - 12 VDC (SELV) | 230 VAC - 12 V DC (SELV) |
| Autonomy | 12 h | 12h can be extended to 72 h |
| Length of alarm cycle | 50 sec. | 50 sec. |
| Frequency of system | 433,920 MHz | 433,920 MHz |
| Operating temperature | 0÷50°C | 0÷50°C |
| Arming/Disarming | Remote control M550 | <ul style="list-style-type: none"> Remote control M550 Keypad M55 |
| Max. number of remote controls | 8, with different codes (over 4 million codes) | 8, with different codes (over 4 million codes) |
| Alarm detection | <ul style="list-style-type: none"> remote modules built-in IR sensor wired (instantaneous and delayed) | <ul style="list-style-type: none"> remote modules built-in IR sensor wired (instantaneous and delayed) |
| Max. number of remote modules | 16, with different codes (over 4 million codes) | 16, with different codes (over 4 million codes) |
| Built-in sensor | <ul style="list-style-type: none"> passive infrared (P.I.R.) 4 to 9 m range as direction varies | <ul style="list-style-type: none"> passive infrared (P.I.R.) 4 to 9 m range as direction varies can be isolated |
| Built-in siren | <ul style="list-style-type: none"> electromagnetic 105 dBA power at 1 m. | <ul style="list-style-type: none"> piezoelectric 108 dBA power at 1 m |
| Alarm outputs | <ul style="list-style-type: none"> 2A relay (C-NC-NO contacts) outdoor siren commands (alarm - powering) | <ul style="list-style-type: none"> 2A relay (C-NC-NO contacts) outdoor siren commands (alarm - powering) |
| LED light on alarm control unit | Mains power on - alarm control unit status-IR sensor operation | Mains power on - alarm control unit status-IR sensor operation |
| External alarm control unit status LED | control wired | <ul style="list-style-type: none"> control wired remote (rolling code) for C319 |
| Self-protection | | micro-contact against opening |
| Dimensions (mm) and weight (g) | 105 x 115 x 118 - 980 | 258 x 175 x 48 - 550 |

PROTECTION SENSORS

| Technical Specifications | C20 INFRARED VOLUMETRIC SENSOR | C21 INFRARED VOLUMETRIC SENSOR | C21 L INFRARED VOLUMETRIC SENSOR | C22 DUAL MAGNETIC & SHOCK PHERIPHERAL SENSOR |
|-------------------------------|---|---|---|--|
| Power supply | 9V alkaline battery | 9V alkaline battery | 9V alkaline battery | Two 3V lithium batteries |
| Autonomy | about 1,5 years | about 1,5 years | about 1,5 years | about 3 years |
| Frequency | 433,920 MHz | 433,920 MHz | 433,920 MHz | 433,920 MHz |
| Operating temperature | -10°C to 50°C | -10°C to 50°C | -10°C to 50°C | -10°C to 50°C |
| Transmission code | over 4 million codes | over 4 million codes | over 4 million codes | over 4 million codes |
| Dimensions (mm) | 65 x 62 x 117 | 65 x 80 x 117 | 65 x 80 x 117 | 85 x 30 x 13 - 40 x 11 x 13 |
| Weight (g) | 170 | 190 | 190 | 30 |
| Adjustments | | | | sensitivity |
| Signals | <ul style="list-style-type: none"> IR detection battery low | <ul style="list-style-type: none"> IR detection battery low | <ul style="list-style-type: none"> IR detection battery low | |
| Distance of magnet | | | | MAX 15 mm |
| Angle of coverage | 150° | 90° | 30° | |
| Detecting distance (h=2m) | 8 m | 9 m | 16 m | |
| Batteries supplied | NO | NO | NO | YES |
| Self-protecting switch | YES | YES | YES | |
| Maximum cord length | | | | |
| Optional positionable support | C220 | C220 | C220 | |

SIGNALLING DEVICES

| Technical specifications | C33 WIRED FLASHING OUTDOOR SIREN | C35 REMOTE CONTROLLED FLASHING OUTDOOR SIREN | C43 "TRANQUILLO" TELEPHONE DIALLER / TELE-ASSISTANCE | C319 REMOTE STATUS LED | C388 "HOME THEATRE" PRESENCE SIMULATOR |
|--------------------------------|--|--|--|---|--|
| Power supply | 12VDC (SELV) | 230 VAC | 230 VAC - 12 VDC (SELV) | 12-24 VAC - 8-24 VDC | 230 VAC |
| Autonomy | 12 h | 12 h | 12 h | | |
| Frequency | | 433,920 MHz | 433,920 MHz | 433,920 MHz | 433,920 MHz |
| Operating temperature | 0°C to + 50°C | 0°C to + 50°C | 0°C to + 50°C | -10°C to + 50°C | - 10°C to + 50°C |
| Alarm signal | Wired from alarm control unit | over 4 million codes | over 4 million codes | rolling code | rolling code |
| Dimensions (mm.) | ø 250 x 90 | ø 250 x 90 | 185 x 120 x 60 | 85 x 30 x 13 | 125 x 63 x 63 |
| Weight (g) | 1320 | 1400 | 620 | 40 | 400 |
| Electromagnetic siren | YES | YES | | | |
| Mains power on indicator light | YES | YES | YES | | YES |
| Status indicator | | | DISPLAY | <ul style="list-style-type: none"> • LED on module • external LED command | YES |
| Messages | | | <ul style="list-style-type: none"> • alarm • assistance • length 11 sec. each | | |
| Telephone numbers | | | <ul style="list-style-type: none"> • 4 alarm • 4 assistance • 10 attempts each | | |
| Utilities | | | <ul style="list-style-type: none"> • hands-free listening • hands-free speaking function | | |
| Alarm cycles | <ul style="list-style-type: none"> • length 50 sec. • max 5 cycles | <ul style="list-style-type: none"> • length 50 sec. • max 5 cycles | | | |
| Siren sound power | 111 dBA at 1m | 111 dBA at 1m | | | |
| Self-protecting switch | YES | YES | | | |
| Light switch-on timing | | | | | Random |

ARMING DEVICES

| Technical specifications | C550 REMOTE CONTROL | C55 KEYPAD WITH IR |
|-------------------------------|--------------------------|---|
| Power supply | Two 3V lithium batteries | 9V alkaline battery |
| Autonomy | Approx. 3 years | Approx. 1,5 years |
| Frequency | 433,920 MHz | 433,920 MHz |
| Operating temperature | -10°C ÷ + 50°C | 0°C ÷ +40°C |
| Transmission coding | Over 4 million codes | Over 4 million codes |
| Dimensions (mm) | Ø 39 x 14 | 144 x 84 x 39 |
| Weight (g) | 15 | 400 |
| Built-in IR volumetric sensor | | <ul style="list-style-type: none"> • passive infrared • range from 4 to 9 m |
| Signals | | <ul style="list-style-type: none"> • IR detection • Battery low |
| Batteries supplied | YES | NO |

| C25 SHOCK PERIPHERAL SENSOR | C27 MAGNETIC PERIPHERAL SENSOR | C28 ROLLER BLIND PERIPHERAL SENSOR |
|-----------------------------------|--------------------------------------|--|
| Two 3V lithium batteries | Two 3V lithium batteries | Two 3V lithium batteries |
| about 3 years | about 3 years | about 3 years |
| 433,920 MHz | 433,920 MHz | 433,920 MHz |
| -10°C to 50°C | -10°C to 50°C | -10°C to 50°C |
| over 4 million codes | over 4 million codes | over 4 million codes |
| 85 x 30 x 13 | 85 x 30 x 13 - 40 x 11 x 13 | 85 x 30 x 13 - 90 x 120 x 30 |
| 25 | 30 | 140 |
| sensitivity | | |
| | 15 mm MAX | |
| YES | YES | YES |
| | | 3 m |



M550 REMOTE CONTROL

To arm/disarm the alarm control unit and arm/disarm the sensors in partial mode (during the night and with someone in the house, for example, it is possible to arm only the peripheral sensors).



C55 KEYPAD WITH IR

To arm/disarm C12 alarm control unit; C55 is self-protected by an infrared



C43 TELEPHONE DIALLER / TELE-ASSISTANCE

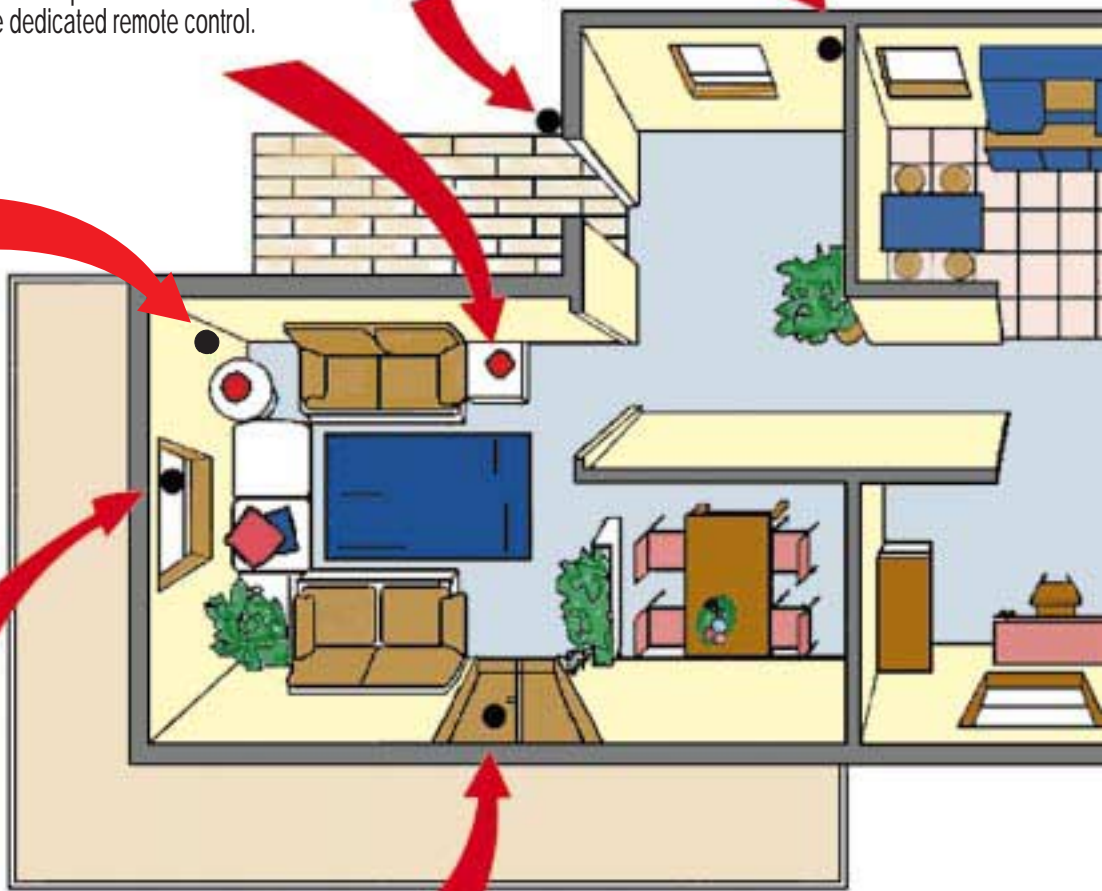
Connected to the telephone line, it transmits alarm signals to selected users or signals requests for assistance by means of the dedicated remote control.

C319 REMOTE STATUS LED

Near the entrance doorbell button to signal the status of the

C388 "HOME THEATRE" PRESENCE SIMULATOR

To simulate people at home by turning the lights on and off at random (only with C12 alarm control unit).



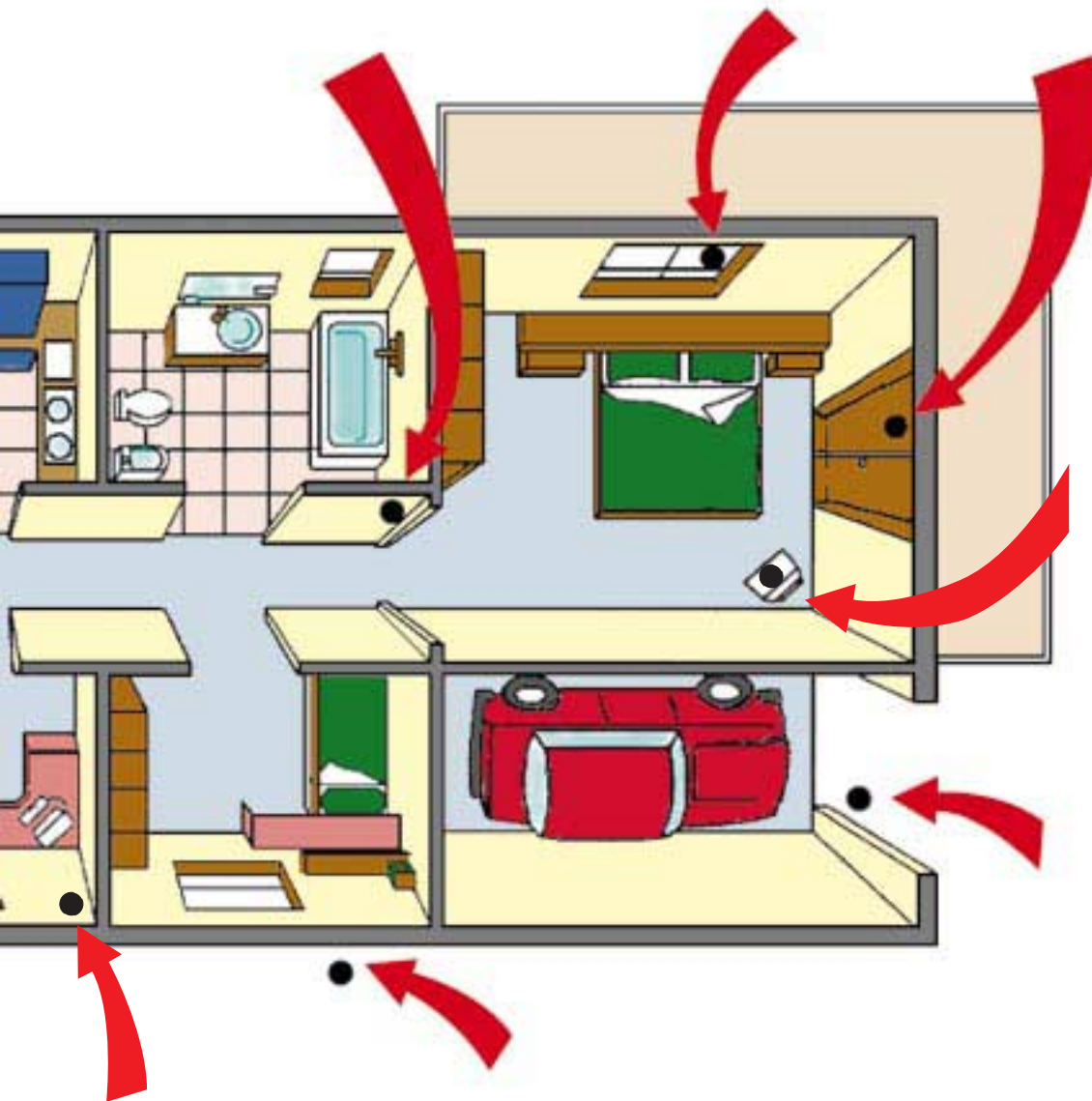
C28 ROLLER BLIND PERIPHERAL SENSOR

To protect the doors and windows leading on to the living room terrace.

WIRE FREE SYSTEM

C21L INFRARED VOLUMETRIC SENSOR
Infrared sensor that protects the corridor of the home (normally an essential passage way in the

C25 SHOCK PERIPHERAL SENSORS
To protect the glazed windows and doors that



C388 "HOME THEATRE" PRESENCE SIMULATOR
To simulate the presence of people in the home by turning the television or lights on and off at random (only with C12 alarm control unit).

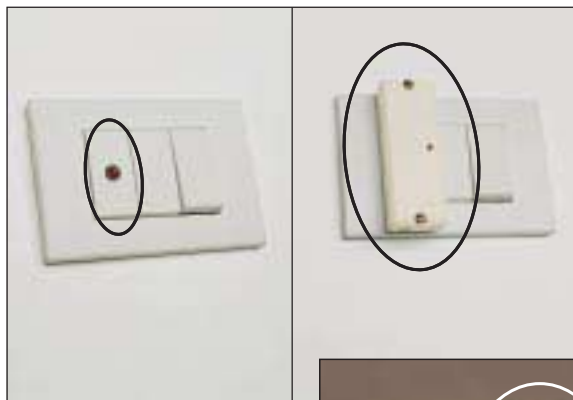
C22 DUAL MAGNETIC & SHOCK PERIPHERAL SENSOR
Shock and magnetic sensor to protect the garage door.

C12 or C11 ALARM CONTROL UNIT
Complete with self-powered siren

C35 REMOTE CONTROLLED FLASHING OUTDOOR SIREN
Very loud self-powered, flashing alarm signalling siren.

Installation Positions

C319 REMOTE STATUS LED



C12 ALARM CONTROL UNIT

C20 INFRARED VOLUMETRIC SENSOR



C388 "HOME THEATRE" PRESENCE SIMULATOR



C25 SHOCK PERIPHERAL SENSOR

C43 "TRANQUILLO" TELEPHONE DIALLER / TELE-ASSISTANCE



Guarantee

Approvals

3

A 3-YEAR ALL-INCLUSIVE GUARANTEE

High technology products with tried and tested reliability allow MetaSystem to guarantee HomeAlarm components for a period of 3 years from the date of delivery.

The exclusive MetaSystem guarantee stands for efficiency and quick responses: any product recognised as being defective is immediately and completely substituted with a new one (**EXCHANGE formula**).

PRODUCT APPROVALS

Conformity CE.

73/23/CEE Security Regulation.

Electromagnetic compatibility:

89/336/CEE Directive

and ETS 300 683 Regulation.

Radio frequency: ETS 300 220 Regulation (remote controls and remote modules) - ETS 300 440 Regulation (microwaves).

Telephony: TBR21 European Regulation.



Living in safety means Living with peace of mind

Authorised Dealer



COMPANY WITH QUALITY SYSTEM
CERTIFIED ACCORDING TO
ISO 9001



METASYSTEM S.p.A.

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