# Anti-intrusion
## System

AVE Patent No. 244/5/6
EU model

Design:
L. Merletti

System Description

Technical Catalogue

**Control units with web server and integrated Wi-Fi module**
Integrated with:
- AVE DOMINA SMART home automation system
- IP cameras with HTTP protocol JPEG snapshot.

AVE Patent
"No. 244 EU model"

**Control of user functions and installer functions via a single APP for Android and iOS smartphones.**

ANDROID APP ON
Google play

Download on the
App Store

AVE Patent
"No 245 EU model"

RADIO

FILO

## Wired and/or wireless sirens

with the option of independently managing optical and acoustic alerts for all types of events. For example, flashing can be used for deterrence and flashing plus acoustic warning to signal an alarm.

RADIO

## Mixed wireless/wired solution with wide range of detectors, both wired and wireless

PIR volumetric detectors Curtain effect detectors with dual PIR for entrance protection Multifunctional perimeter detectors with magnet contact, 2 auxiliary inputs and magnetic tamper protection Interface for technical alarms that allows connection to any  detectors with potential-free contact (e.g. gas detectors etc.).

FILO

RADIO

RADIO

### Smart home security: the future is connected to AVE CLOUD

With DOMINA SMART ANTI-INTRUSION, the world of security and the world of connected objects come together, enhancing the features of both via AVE CLOUD. AVE's first true IoT burglar alarm is create - a fully integrated system for your building, ever ready to protect you and meet your technological needs.

### Control your burglar alarm using your smartphone or tablet

Make your home even smarter with the AVE cloud APP! Interact with the intrusion detection system via your smartphone or tablet, anytime, anywhere.
You can manage all the functions built into the system!
And what's more, you can even control the home automation system. All from a single APP.

### AVE CLOUD, always ready to come to your aid

Has the installer arrived for a system programme change and you're not at home? No problem. You can open the gate for him remotely, disarm the burglar alarm and authorise him to make any changes. It's just like having a personal assistant always ready to help out. From your smartphone, you can check what zones are armed, check the event memory, edit and enable scenarios.

### Managing your burglar alarm system has never been easier

While you are at work, you can even stay in touch with your anti-intrusion system from your PC by keeping an Internet page open. Using your smartphone, you can create various scenarios and customise them. Furthermore, if you have the AVE home automation system, when you leave, all you have to do is watch the gate close behind you. Your house will do it all for you:  lower the roller shutters and engage the burglar alarm.

## Quick to install

The control panel's graphical interface guides configuration and maintenance, allowing installation to be completed in no time.

## Easy to manage

Whether locally (LAN/Wi-Fi) or remotely (Internet): all tasks are simple, quick and exact, as they are carried out via the control unit and automatically transmitted wirelessly to the system components.

## Easy to promote

Scrolling through the graphics on a display, PC, tablet or smartphone, you quickly appreciate the high-tech on offer, far superior to other equipment on the market.

## Flexible

A single platform for both wired (up to 16 inputs) and wireless (up to 99 devices): it allows the use of both wired and wireless peripherals, depending on the type of system required.

RADIO    FILO

## Reliable

New two-way wireless communication technology with GFSK digital protocol. Dual-band transmission.

TWO-WAY

DUAL-BAND

## Complete, integrated system

In addition to a wide range of devices and detectors, the system can be easily interfaced with IP cameras with HTTP Polling protocol and AVE home automation systems for residential and service sectors.
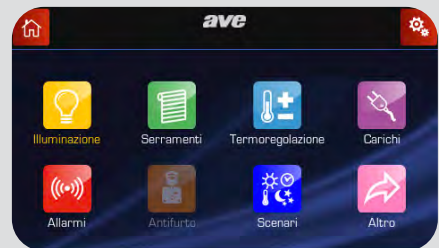
# ANTI-INTRUSION SYSTEM
## System Description
### INTEGRATED SMART IoT PLATFORM

• All-in-one platform: the same programming and operation mode for both intrusion detection and home automation supervisors.



• A single CLOUD to manage home automation and anti-intrusion.



**HOME AUTOMATION SUPERVISORS**

53AB-WBS - TS01

**ANTI-INTRUSION SUPERVISORS**

AF927PLUSTC - AF927PLUS

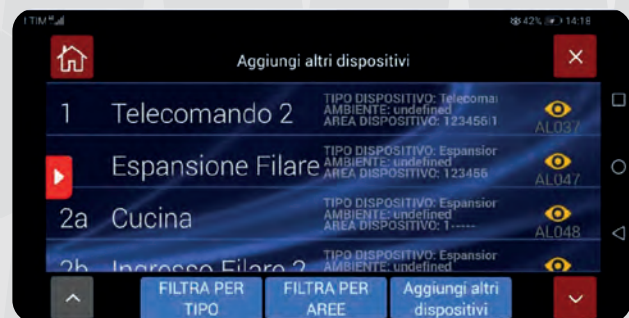**• A single APP to manage home automation and anti-intrusion:**
- Same interface as on AVE supervisors, even on smartphone
- Every update performed on the control unit is automatically acknowledged by all connected devices.
- Customisable PUSH NOTIFICATIONS for all events: the system alerts you by automatically sending push notifications of various events (alarms, faults, etc.).



**• Option of managing and programming the control unit from any iOS or Android smartphone, and/or any device with a web browser.**
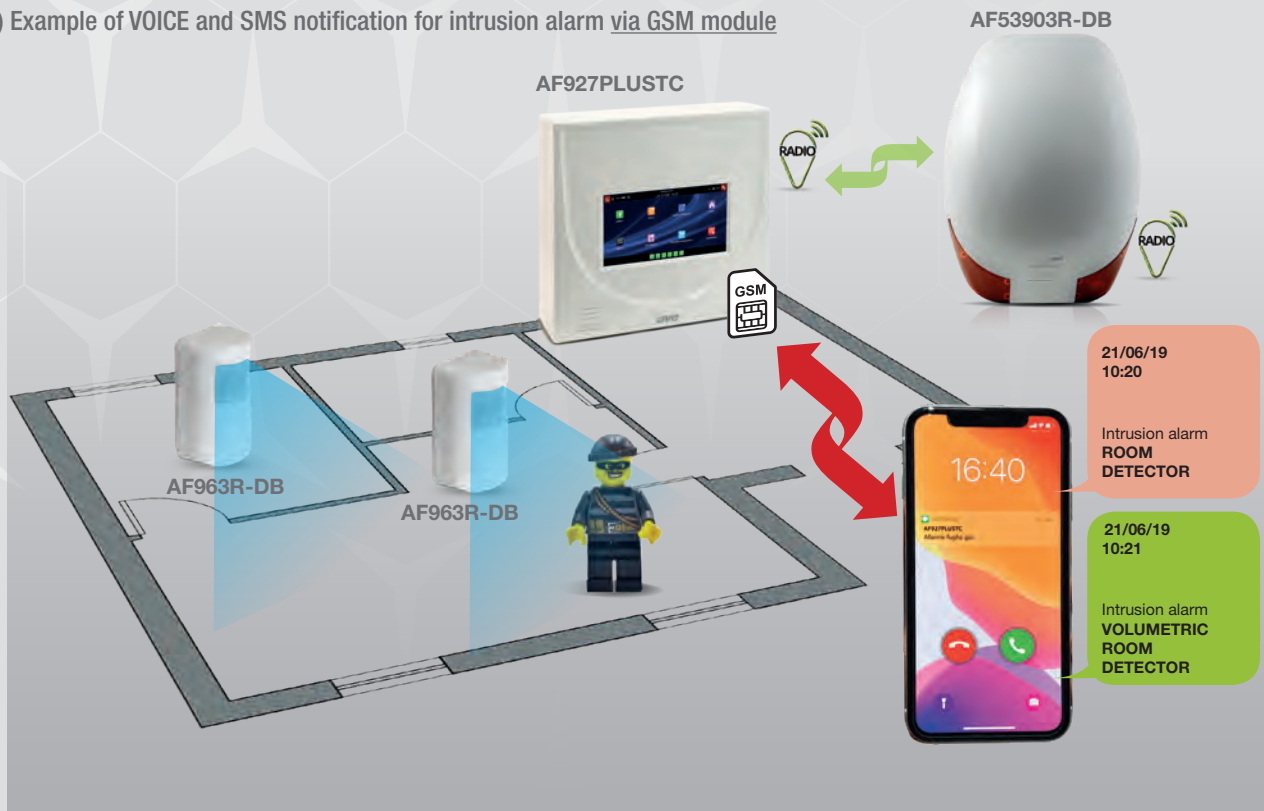


User menu

Installer menu

**1) Example of VOICE and SMS notification for intrusion alarm <u>via GSM module</u>**

AF53903R-DB

AF927PLUSTC

RADIO

GSM

AF963R-DB

AF963R-DB

21/06/19
10:20

Intrusion alarm
**ROOM
DETECTOR**

21/06/19
10:21

Intrusion alarm
**VOLUMETRIC
ROOM
DETECTOR**

**2) Example of SMS and VOICE notification for technical alarm (GAS leakage) <u>via GSM module</u>**

AF927PLUSTC

RADIO          RADIO

GSM

AFTR02

21/06/19
10:20

Technical Alarm
**GAS ALARM**

21/06/19
10:21

Technical alarm
**GAS LEAKAGE
ALARM**

RG1-M

# CUSTOMISED PUSH NOTIFICATIONS VIA AVE CLOUD AND APP

## 1) Example of PUSH notification for intrusion alarm
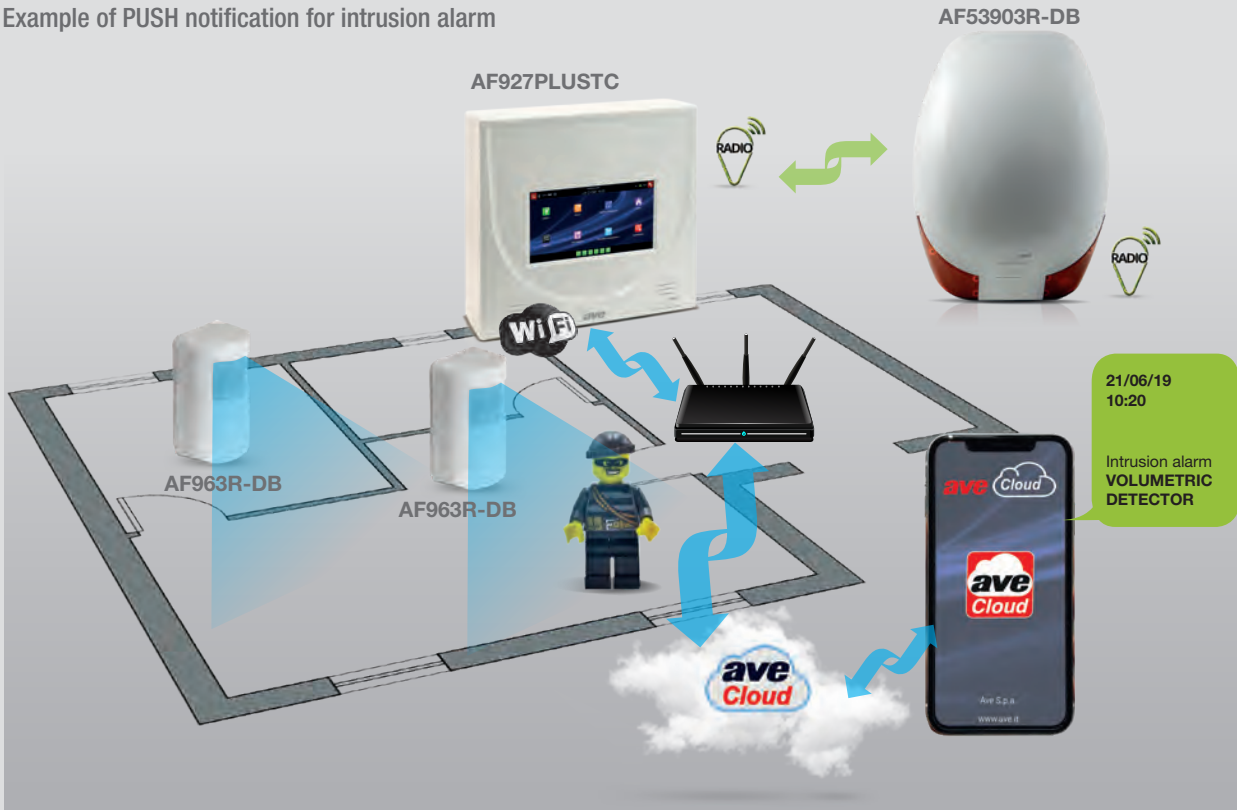
AF53903R-DB

AF927PLUSTC

RADIO

RADIO

Wi Fi

AF963R-DB

AF963R-DB

21/06/19
10:20

Intrusion alarm
**VOLUMETRIC
DETECTOR**

ave Cloud

ave Cloud

Ave S.p.a.
www.ave.it

## 2) Example of PUSH notification for technical alarm (GAS leakage)

AF927PLUSTC

RADIO

RADIO

Wi Fi

AFTR02

Wi Fi

21/06/19
10:21

Technical alarm
**GAS LEAKAGE
ALARM**

RG1-M

ave Cloud

ave Cloud

Ave S.p.a.
www.ave.it

HOME AUTOMATION

HOTEL MANAGEMENT

VIDEO INTERCOMS

ANTI-INTRUSION

WIRING DIAGRAMS
AND INSTRUCTIONS

# ANTI-INTRUSION SYSTEM
## System Description

## SYSTEM SIZING

**POWER SUPPLY**

The control unit's internal power supply delivers a nominal voltage of 14.5 VDC (@100-240V - 50/60Hz) and a current of 1.6A; to facilitate calculation of the total consumption for the purposes of autonomy in the absence of mains power, the following table is provided:

| | Cod. AF927PLUSTC | Cod. AF927PLUS |
|---|---|---|
| **Power supply specifications** | 14.5V – 1.6A (@240-100V – 60/50Hz) | |
| **Rechargeable batteries** | 2x12V – 2.2Ah | |

| | Cod. AF927PLUSTC | | | | Cod. AF927PLUS | |
|---|---|---|---|---|---|---|
| **Power supply status** | 230 V OK | | | Blackout | 230 V OK | Blackout |
| **LCD brightness** | 100% | 50% | 10% | 0% | N/A | N/A |
| **Control unit** | 390 | 300 | 200 | 30 | 150 | 20 |
| **Wi-Fi module** | 40 | 40 | 40 | ✕ | 40 | ✕ |
| **Wired board** | 20 | 20 | 20 | 20 | 20 | 20 |
| **2G GSM module (AFGSM04)** | 10 | 10 | 10 | 10 | 10 | 10 |
| **4G GSM module (AFGSM04-4G)** | 45-80 | 45-80 | 45-80 | 45-80 | 45-80 | 45-80 |
| **Total** | 460 (530) | 370 (440) | 270 (340) | 60 (140) | 220 (290) | 50 (120) |

(Stand-by power consumption)

**Where not indicated, values are in mA.**
**In brackets, the maximum consumption value with telephone dialer Art. AFGSM04-4G.**

**Note:**
- In the event of a power failure, the Wi-Fi module is automatically switched off by the control unit to save energy. There is, however, an option of keeping both the Wi-Fi module and the GSM 4G module active via a special parameter.
- In order to guarantee 24-hour autonomy of the system in the absence of mains power, it is advisable not to exceed a maximum consumption of 180mA (with 2 x 12V 2.2Ah batteries).
- When using wired peripherals, it is recommended not to exceed 120mA power consumption. Should it be necessary to connect a larger number of devices, use an additional power supply unit with a buffer battery (art. ALI12-5A) and signal the fault of the power supply unit to the control unit or a wired bus input board (Art. AFEX6I-REN).
- The AF927INTLAN interface has an in-use consumption of 230 mA.

**AF927PLUS**

**AF927PLUSTC**

**Anti-intrusion control unit positioning: some tips**
- It is preferable to install the burglar alarm control unit in a central position with respect to the system itself
- When no obstacles (concrete walls, stone, etc.) are present, the maximum distance between the control unit and the detectors is 100 metres. During installation, it is advisable to check the wireless signal range using the 'field meter' function in the Test menu.  If the signal is not poor because of obstacles, a repeater may be installed, cod. AFTRA03.



■ Wireless/wired control unit

■ Wireless volumetric detector

■ Outdoor wireless siren

■ Wireless perimeter detector

| | Wireless/wired control unit |
| | Wireless volumetric detector |
| | Outdoor wireless siren |
| | Wireless perimeter detector |
| | 2 PIR wireless detector |

**RADIO**

**EQUIPMENT LIST**

| | Cod. | Description | Qty |
|---|---|---|---|
| | AF927PLUS | Wireless/wired control unit with integrated Wi-Fi module | 1 |
| | AF911 | Battery for control unit – 12 V 2.2 Ah | 2 |
| | AFGSM04-4G | GSM 4G module for control unit | 1 |
| | AF53903R-DB | Wireless siren with voice messages | 1 |
| | AF943R | Two-way remote controls | 3 |
| | AF915R-DB | Multifunctional wireless perimeter | 2 |
| | AF930 | Wired magnetic contact for security door (*) | 1 |
| | AF965R-DB | 2 PIR curtain effect detector | 1 |
| | AF963R-DB | Wireless PIR detector | 1 |
| | AF961N | Joint for PIR detector | 1 |

**\*Note:** AF930 to be connected to the auxiliary input of AF915R-DB contact
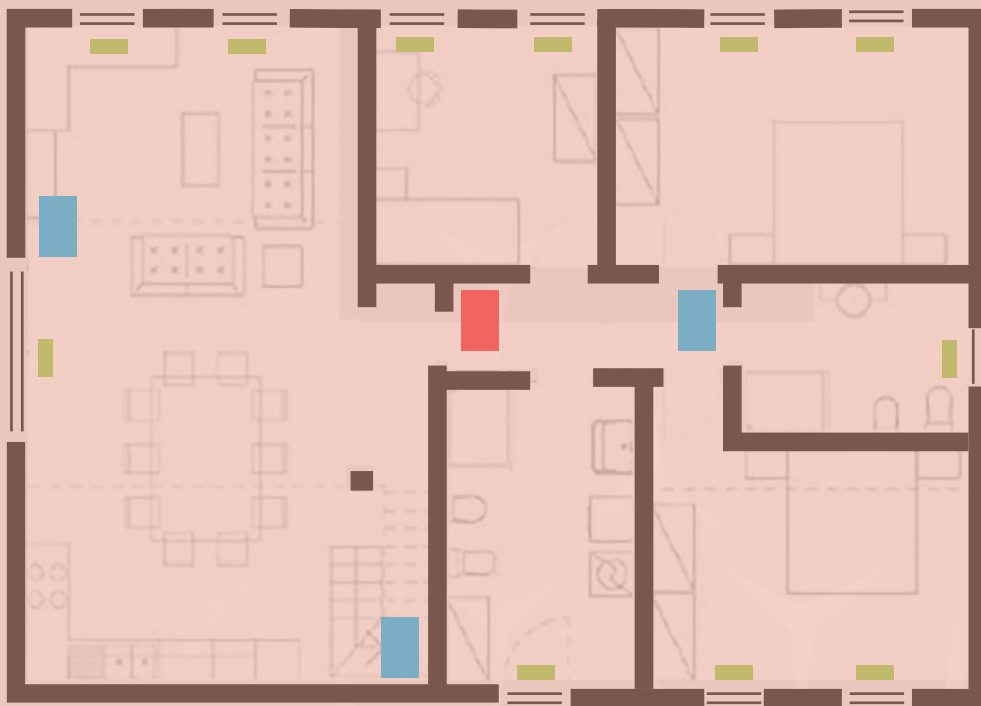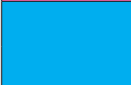
# EXAMPLE 2: PROTECTION OF A TWO-ROOM FLAT WITH A WIRED SYSTEM

FILO

| Color | Description |
|---|---|
| 🟥 | Wireless/wired control unit |
| 🟦 | Wired volumetric detector |
| 🟨 | Outdoor wired siren |
| 🟩 | Wired perimeter detector |
| 🟪 | Wired curtain effect detector |

## EQUIPMENT LIST

| | Cod. | Description | Qty |
|---|---|---|---|
| 🟥 | AF927PLUS | Wireless/wired control unit with integrated Wi-Fi module | 1 |
| | AF911 | Battery for control unit – 12 V 2.2 Ah | 2 |
| | AFGSM04-4G | GSM 4G module for control unit | 1 |
| 🟨 | AF53900N | Outdoor wired siren | 1 |
| | AF911 | Battery for siren – 12 V 2.2 Ah | 1 |
| | AF943R | Two-way remote controls | 3 |
| 🟩 | AF903 | Wired magnetic surface contact | 1 |
| 🟩 | AF930 | Wired magnetic contact for security door | 1 |
| 🟪 | AF973F | Wired DT detector with curtain effect | 1 |
| 🟦 | AF963N | Wired DT detector with joint | 1 |

| | Wireless/wired control unit |
|---|---|
| | Wireless volumetric detector |
| | Outdoor wireless siren |
| | Wireless perimeter detector |
| | 2 PIR wireless detector |

**RADIO**

**EQUIPMENT LIST**

| | Cod. | Description | Qty |
|---|---|---|---|
| | AF927PLUSTC | Wireless/wired control unit with integrated Wi-Fi module | 1 |
| | AF911 | Battery for control unit – 12 V 2.2 Ah | 2 |
| | AFGSM04-4G | GSM 4G module for control unit | 1 |
| | AF53903R-DB | Wireless siren with voice messages | 2 |
| | AF943R | Two-way remote controls | 4 |
| | AF915R-DB | Multifunctional wireless perimeter | 7 |
| * | AF930 | Wired magnetic contact for security door (*) | 1 |
| * | AF933 | Wired magnetic contact for overhead door (*) | 1 |
| | AF965R-DB | 2 PIR curtain effect detector | 8 |
| | AF963R-DB | Wireless PIR detector | 3 |
| | AF961N | Joint for PIR detector | 3 |

**\*Note:** AF930 and AF933 to be connected to the auxiliary input of the AF915R-DB contact

# EXAMPLE 4: PROTECTION OF A TERRACED HOUSE WITH MIXED WIRELESS/WIRED SYSTEM
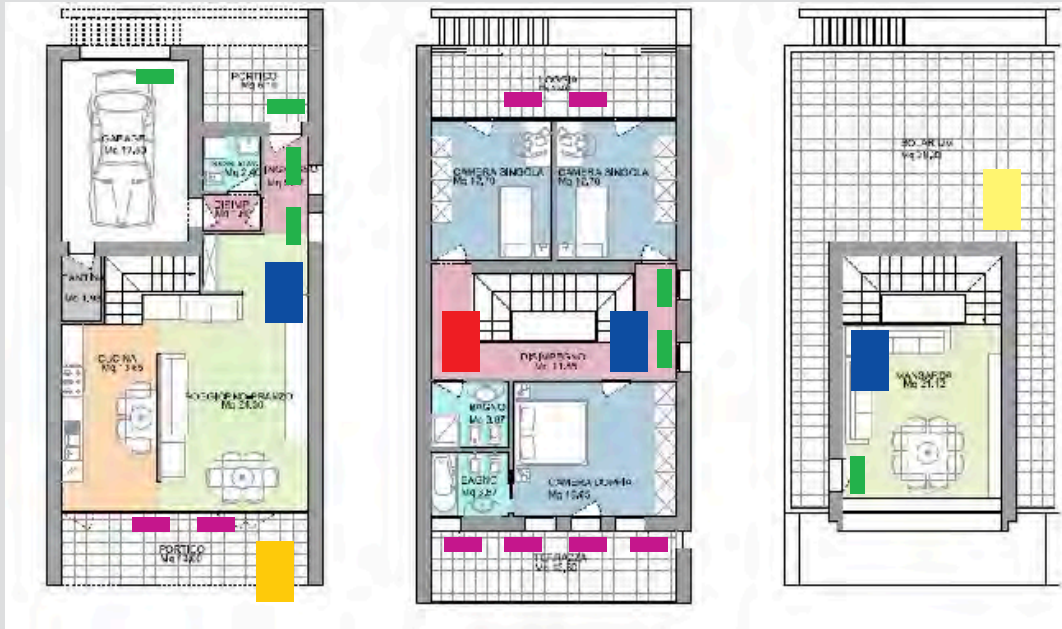
- 🟥 Wireless/wired control unit
- 🟦 Wired volumetric detector
- 🟨 Outdoor wired siren
- 🟧 Outdoor wireless siren
- 🟩 Wired perimeter detector
- 🟪 2 PIR wireless detector



RADIO    FILO

## EQUIPMENT LIST

| | Cod. | Description | Qty |
|---|---|---|---|
| 🟥 | AF927PLUSTC | Wireless/wired control unit with integrated Wi-Fi module | 1 |
| | AF911 | Battery for control unit – 12 V 2.2 Ah | 2 |
| | AFGSM04-4G | GSM 4G module for control unit | 1 |
| 🟧 | AF53903R-DB | Wireless siren with voice messages | 1 |
| 🟨 | AF53900N | Outdoor wired siren | 1 |
| 🟨 | AF911 | Battery for siren – 12 V 2.2 Ah | 1 |
| | AF943R | Two-way remote controls | 4 |
| 🟩 | AF903 | Wired magnetic surface contact | 5 |
| 🟩 | AF930 | Wired magnetic contact for security door | 1 |
| 🟩 | AF933 | Wired magnetic contact for overhead door | 1 |
| 🟪 | AF965R-DB | 2 PIR curtain effect detector | 8 |
| 🟦 | AF963N | Wired DT detector with joint | 3 |

**AF927PLUS/AF927PLUSTC** is a wireless/wired control unit with integrated Wi-Fi module. It can manage up to 99 detectors that are individually identifiable by means of a 'label' function which, when suitably programmed, shows the location of the alarm (e.g.: living room, kitchen, corridor, etc.) on the display or control device. The wired board can handle 8 inputs with free balance and 16 with NC balance.

**TECHNICAL SPECIFICATIONS**

- **Primary power supply**: 230 Vac -15%+10% - 50/60 Hz.

- **Secondary power supply:** to be supplemented with 2 x 12 V/2.2 Ah batteries cod. AF911.
  - Maximum charging time: 3 hours
  - Low battery alert at 10.9 V and full battery alert at 11.4 V.

- **Transmitting/Receiving** RF 433 MHz/868 MHz GFSK Dual band, EU- standard 300-220-1; 300-330; 300-440, wireless range in open air, disturbance-free 100m. Wireless range may also be significantly reduced indoors due to the positioning of equipment (detectors, sirens, etc.) in relation to the structure of the rooms.

- **Wireless inputs**:
  - 99 wireless channels – 99 detectors individually identifiable with text and/or voice label, each delayable and includes AND function.

- **Wired inputs:**
  - 8 double-balanced wired inputs. 16 connectable peripherals with double function
  - 1 double-balanced input for electro-mechanical wired key reader with at least 300 combinations.

- **Wired outputs:**
  - 1 for indoor siren control
  - 1 for outdoor self-powered siren
  - Two, free changeover programmable relays for various functions (max. 500 mA@12 V).

- **6 arming areas** (1,2,3,4,5,6).

- **Anti-tampering via wireless**: reception of tamper signal from each individual detector - reception of 'keep alive' signals transmitted every 18 minutes and low battery (SUPERVISION) when required.

- **R.F. faults:** continuous, simultaneous and programmable control of the 2 operating frequencies.

- **Code management:** Power User (master user), Installer, 62 users + anti-coercion function

- **Remote controls**: option of storing 32 AF943R remote controls, individually identifiable with a text label via display touch screen or with a voice label.

- **Last 500 events memory** (non-volatile memory).

- **Event Messages.** Option of recording voice messages to inform the user in real time of the main events occurring at the control unit (control unit armed; control unit disarmed; door open; outdoor detector alarm; pre-alarm; tampering; new event).

- **Timing:** arming delay programmable from 1 to 99 seconds - entrance delay programmable on each detector, from 1 to 45 seconds - general alarm time 3 minutes fixed - Time programmer: daily.

- **Indoor siren:** alarm siren 106 dB.

- **Acoustic alerts:** voice messages for installation guidance and notifications to user + low-intensity buzzer.

- **Integrated WI-Fi module and web server.**

- **Integration:**
  - AVE DOMINAPLUS home automation system
  - 1 to 4 IP cameras with HTTP JPEG snapshot

- **Dimension data and other specifications**
  - dimensions: 270x262x82 mm
  - weight: AF927PLUSTC 2.0 kg - AF927PLUS 1.5 kg
  - temperature: operational/storage: -25°C to +55°C – Humidity 95%.

Technical Specifications

Control of user and installer functions via a single APP for Android and iOS smartphones.

**AF927PLUS**

**AF927PLUSTC**

## POWER SUPPLY

The control unit's internal power supply delivers a nominal voltage of 14.5 VDC (@100-240V - 50/60Hz) and a current of 1.6A; to facilitate calculation of the total consumption for the purposes of autonomy in the absence of mains power, the following table is provided:

| | Cod. AF927PLUSTC | Cod. AF927PLUS |
|---|---|---|
| **Power supply specifications** | 14.5V – 1.6A (@240-100V – 60/50Hz) | |
| **Rechargeable batteries** | 2x12V – 2.2Ah | |

| | | Cod. AF927PLUSTC | | | Cod. AF927PLUS | |
|---|---|---|---|---|---|---|
| **Power supply status** | | 230 V OK | | Blackout | 230 V OK | Blackout |
| **LCD brightness** | 100% | 50% | 10% | 0% | N/A | N/A |
| **Control unit** | 390 | 300 | 200 | 30 | 150 | 20 |
| **Wi-Fi module** | 40 | 40 | 40 | (wifi) | 40 | (wifi) |
| **Wired board** | 20 | 20 | 20 | 20 | 20 | 20 |
| **2G GSM module (AFGSM04)** | 10 | 10 | 10 | 10 | 10 | 10 |
| **4G GSM module (AFGSM04-4G)** | 45-80 | 45-80 | 45-80 | 45-80 | 45-80 | 45-80 |
| **Total** | 460 (530) | 370 (440) | 270 (340) | 60 (140) | 220 (290) | 50 (120) |

*(left axis label: Stand-by power consumption)*

**Where not indicated, values are in mA.**
**In brackets, the maximum consumption value with telephone dialer Art. AFGSM04-4G.**

**Note:**
- In the event of a power failure, the Wi-Fi module is automatically switched off by the control unit to save energy. There is, however, an option of keeping both the Wi-Fi module and the GSM 4G module active via a special parameter.
- In order to guarantee 24-hour autonomy of the system in the absence of mains power, it is advisable not to exceed a maximum consumption of 180mA (with 2 x 12V 2.2Ah batteries).
- When using wired peripherals, it is recommended not to exceed 120mA power consumption. Should it be necessary to connect a larger number of devices, use an additional power supply unit with a buffer battery (art. ALI12-5A) and signal the fault of the power supply unit to the control unit or a wired bus input board (Art. AFEX6I-REN).
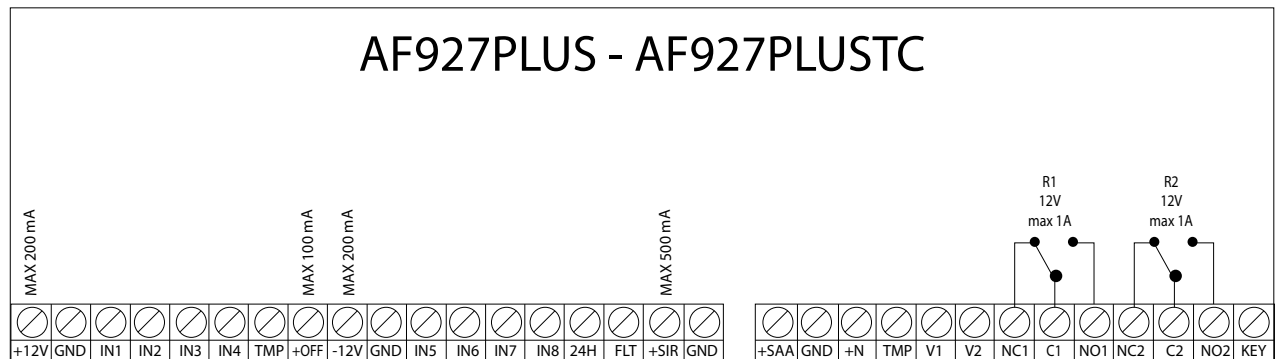- The AF927INTLAN interface has an in-use consumption of 230 mA.

**DESCRIPTION OF WIRED BOARD TERMINAL BLOCK (INCLUDED IN CONTROL UNIT)**

## AF927PLUS - AF927PLUSTC



| Terminal | Description |
|---|---|
| 12+V | Detector power supply (12+ VDC – max. 200 mA) |
| GND | GND |
| IN1 | Wired alarm input IN1 |
| IN2 | Wired alarm input IN2 |
| IN3 | Wired alarm input IN3 |
| IN4 | Wired alarm input IN4 |
| TMP | Tamper inputs 1,2,3 & 4 |
| +OFF | System status output (positive when system disarmed) – max. 100 mA |
| 12+V | Detector power supply (+12 VDC – max. 200 mA) |
| GND | Gnd |
| IN5 | Wired alarm input IN5 |
| IN6 | Wired alarm input IN6 |
| IN7 | Wired alarm input IN7 |
| IN8 | Wired alarm input IN8 |
| 24H | Tamper inputs 5,6,7 & 8 |
| FLT | Fault input. Balanced input with 22 kΩ resistor |
| +SIR | Indoor auxiliary siren control (12 VDC - max. 500 mA) |
| +SAA | Outdoor siren power supply (14 VDC) |
| GND | Gnd |
| +N | Output for outdoor siren control (command when no positive) |
| TMP | Wired siren tamper – Double balanced input with 22 kΩ resistors |
| V1 | Not in use |
| V2 | Not in use |
| GND | Gnd |
| NC1 | Relay 1 output NC contact (max. 1 A @12 VDC) |
| C1 | Relay output contact common (max. 1 A @12 VDC) |
| NO1 | Relay 1 output NO contact (max. 1 A @12 VDC) |
| NC2 | Relay 2 output NC contact (max. 1 A @12 VDC) |
| C2 | Relay 2 output contact common (max. 1 A @12 VDC) |
| NO2 | Relay 2 output NO contact (max. 1 A @12 VDC) |
| KEY | Input ON OFF (Closed to GND: OFF) |

Patent No. 244 EU model

287

Home Automation

Hotel Management

Video intercoms

Anti-intrusion

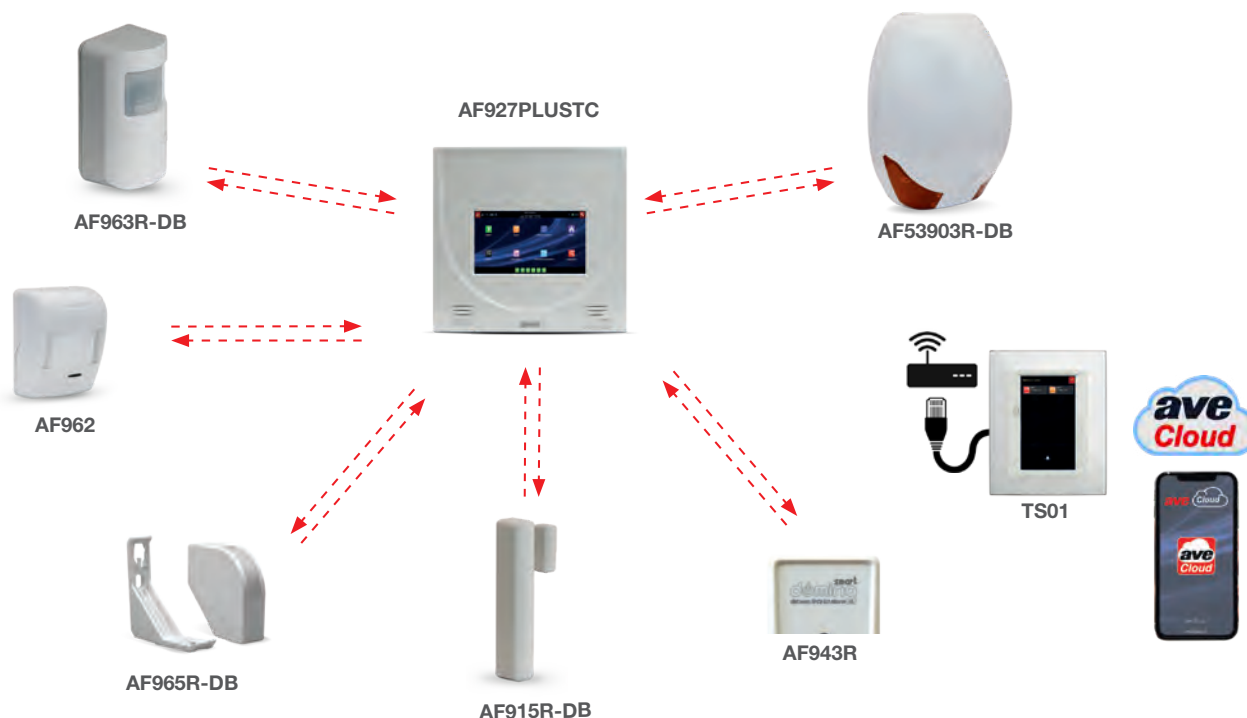Wiring Diagrams and Instructions

## AF927PLUSTC

Dual band, wireless and wired control unit with integrated web server and Wi-Fi module. Power 230 Vac, power supply 1.6A. Management of up to 120 devices ( wireless + wired on internal board + wired bus via AF927INTFIL) individually identifiable via 7" colour LCD touch screen display and/or any device equipped with web browser.
More specifically:
- 99 direct wireless channels in control unit
- 8 wired inputs on control unit (16 with double function), balancing resistors supplied.
- 120 wired inputs via remote 6-input expansion modules AFEX6I-REN
- 16 wired bus key readers AF44...045

Option of transmitting voice messages and/or SMS alarms. Speech synthesis for recording voice messages to be combined with messages shown on the display. To be supplemented with 2 batteries AF911. Conforms to EN 50131-5-3, EN 50131-6, EN 50136-2, EN 50131-3 GR2/CLII.
Colour RAL 9016. Dimensions 270x262x82 mm.

**AF927PLUSTC**

## AF927PLUS

Dual band, wireless and wired control unit with integrated web server and Wi-Fi module. Power 230 Vac, power supply 1.6A. Management of up to 120 devices ( wireless + wired on internal board + wired bus via AF927INTFIL) individually identifiable via any device equipped with a web browser.
More specifically:
- 99 direct wireless channels in control unit
- 8 wired inputs on control unit (16 with double function), balancing resistors supplied.
- 120 wired inputs via remote 6-input expansion modules AFEX6I-REN
- 16 wired bus key readers AF44...045

Option of transmitting voice messages and/or SMS alarms. Speech synthesis for recording voice messages to be combined with messages shown on the display. To be supplemented with 2 batteries AF911. Colour RAL 9016. Dimensions 270x262x82 mm.

**AF927PLUS**

## FUNCTIONAL LAYOUT

AF963R-DB

AF962

AF965R-DB

AF927PLUSTC

AF915R-DB

AF943R

AF53903R-DB

TS01

ave Cloud

The **AFGSM04** and **AFGSM04-4G** control units can be equipped with 'telephone dialer' modules:
**AFGSM04**: 2G GSM module
The device allows SMS and voice calls to be sent and received for two-way management of the control unit. Calls and SMS alerts can be customised as desired during the configuration stage.
**AFGSM04-4G:** 4G LTE module
In addition to the features common to the 2G module, the 4G LTE module allows full management of the control unit using the AVE Cloud application.

Both modules are equipped with flat cable coupling for direct connection to the control unit.

**Information for correct installation**
a) With the module disconnected, insert the SIM into the correct slot on the GSM module
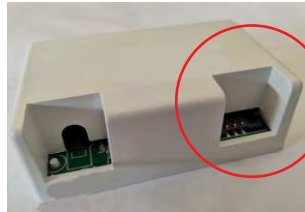


Location for SIM insertion

b) After disconnecting both mains power and batteries from the control unit, insert the GSM module into the unit.
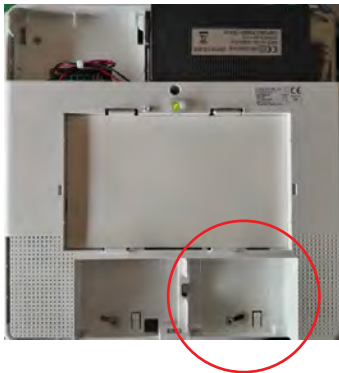


Compartment for GSM 2G and 4G module



Should removal of the GSM module be required, press down on the catch securing the module using a pointed object.

**Check that the SIM card pin code lock is DISABLED.**

**Alerts that the AFGSM04 and AFGSM04-4G modules send via SMS and/or voice messages**

- Control unit armed
- Control unit disarmed
- Alarm
- Voice alarm 1
- Voice alarm 2
- Tampering
- Medical emergency
- Panic emergency
- Assault emergency
- Technological support

- No mains power
- Mains power return
- Low battery
- Fault
- Home automation control out
- Failure to supervise periodic message
- SIM expiry
- Radio interference

**NOTE:** ensure that the GSM 2G or 4G signal of the chosen operator in the room where the anti-intrusion control panel is to be placed has adequate power.

**AFGSM04**
**AFGSM04-4G**

**AF927INTFIL**

**AF927INTLAN**

### AFGSM04
2G GSM module for AF927PLUS and AF927PLUSTC control units. Central flat cable coupling. Allows SMS and voice calls to be sent and received for two-way management of the control unit.

### AFGSM04-4G
4G GSM module. Allows full management of control units remotely, sending SMS messages and voice calls.
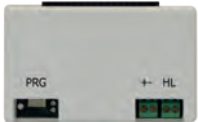
### AF927INTFIL
Wired Bus Interface Board for AF927PLUS and AF927PLUSTC CONTROL UNITS. Allows expansion modules to be connected on a wired bus.

### AF927INTLAN
LAN interface for AF927PLUS and AF927PLUSTC CONTROL UNITS. Allows connection of control units to a wired LAN network.

## EXAMPLE OF OPERATION



AF53903R-DB

AF927PLUSTC

AF963R-DB

AF963R-DB

21/06/19 10:20

Intrusion alarm
**ROOM DETECTOR**

21/06/19 10:21

Intrusion alarm
**VOLUMETRIC ROOM DETECTOR**

ALI12-5A

**Dimensions**
390 x 350 x 88 mm.

**Technical specifications**

| | |
|---|---|
| **Power supply voltage** | 230 Vac (+/- 10%) 50Hz |
| **Output voltage for battery supply** | 13.5 VDC |
| **Deliverable current** | 5 A |
| **Batteries** | 2X AF912 (12V 6.5 Ah) |
| **Fuse for output protection** | 8 A |
| **Mains power LED on board** | 230 Vac power supply on |
| **LED battery under minimum threshold on board** | On if voltage of batteries is low |
| **Output relay with changeover contact for supervision of presence of mains power** | Changeover contact |
| **Output relay with changeover contact for supervision of battery charge** | Changeover contact |
| **Dimensions (WxDxH)** | 390 x 350 x 88 mm |

RELE' CARICA BASSA DELLA BATTERIA
LOW BATTERY CHARGE RELAY

RELE' MANCANZA 230 Vac
RELAY FAILURE 230 Vac

FUSE

LED 1
LED 2

+ OUT 1
-
+ OUT 2
-

PE  N  L
230 Vac

OUT 1: 13,5Vdc   4A
OUT 2: 13,5Vdc   1A
LED 1: LED MANCANZA 230VAC RETE
LED 2: LED TENSIONE BATTERIA BASSA
FUSIBILE: 8A
BATTERIE: 2 x AF912 (12V   6,5Ah)

OUT 1: 13,5Vdc   4A
OUT 2: 13,5Vdc   1A
LED 1: 230VAC LED MAINS LACK
LED 2: LOW BATTERY VOLTAGE LED
FUSE: 8A
BATTERIES: 2 x AF912 (12V   6,5Ah)

**AFEX6I-REN**

6-input remote expansion module for AF999PLUS, AF949PLUS, AF927PLUS and AF927PLUSTC control units. Inputs may be freely configured (NC, double balance, pulse counter).

**AFEXPU**

Remote output module with relay for AF999PLUS, AF949PLUS, AF927PLUS and AF927PLUSTC control units. Operates as timed monostable, 'latching relay' (e.g. for lights) or as 'latching with inversion' (e.g. for roller shutters).

**AF909RR**

Two-way wireless module for AF999PLUS, AF949PLUS, AF927PLUS and AF927PLUSTC control units. Allows all wireless devices in the wireless intrusion detection range to be used. Install a maximum of two wireless modules per control unit.

**AFEX6I-REN**

**AFEXPU**

**AF909RR**

## Supervised power supply

**ALI12-5A**

Additional power supply with supervised mains on and battery level outputs.
Input voltage: 230 Vac - 50Hz. Output voltage 13.5VDC. Deliverable current: 5A. To be supplemented with 2 x batteries AF912 (12V 6.5Ah). Dimensions 390 x 350 x 88 mm.

**ALI12-5A**

### AF44x062

Top view

Side view

1,2m

1,5m    5m    8m    10m

160°
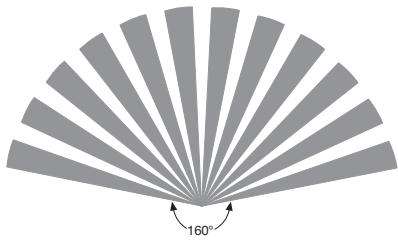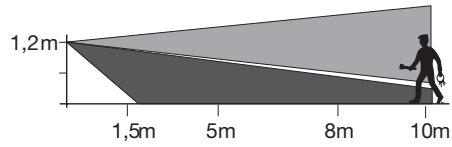
### AF962

Top view

Side view

2 m

1 m    5 m    10 m    15 m

150°
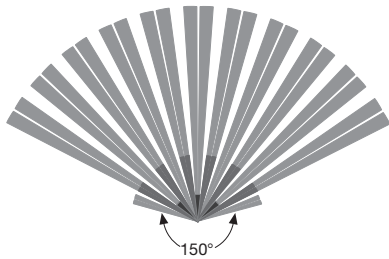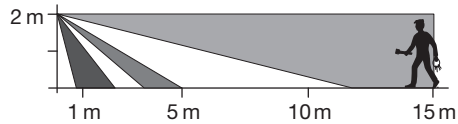
### AF963N

Top view

Side view

2.1m

1,9m  3,3m  5,9m    15 m

90°
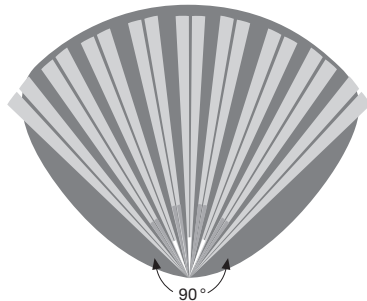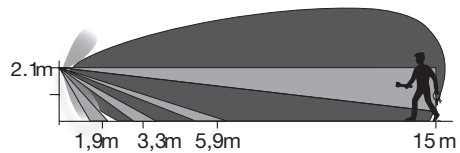
### AF969F

Top view

Side view

1m  0  1m

12m

MAX
4 m

MIN
2 m

2 m   4 m   6 m   8 m   10m  12m
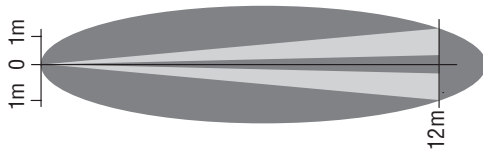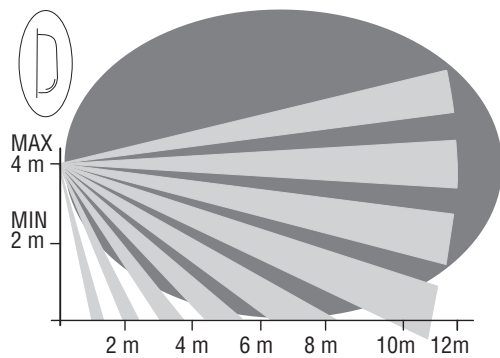
Side view with partialising lens

3,8m

1,4 m

80cm

12m
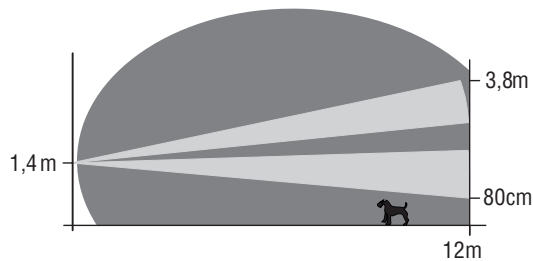
## Flush-mounted wired detectors

AF441062   AF449062   AF445062

AF442062   AF443062

Note: an auxiliary contact must be provided for device removal protection.

**AF441062**
Flush-mounted wired PIR detector. Power consumption 7mA. Range 10m. Potential-free output contact. Domus S44 series

**AF442062**
Flush-mounted wired PIR detector. Power consumption 7mA. Range 10m. Potential-free output contact. Life S44 series.

**AF443062**
Flush-mounted wired PIR detector. Power consumption 7mA. Range 10m. Potential-free output contact. Allumia S44 series.

**AF445062**
Flush-mounted wired PIR detector. Power consumption 7mA. Range 10m. Potential-free output contact. Tekla S44 series.

**AF449062**
Flush-mounted wired PIR detector. Power consumption 7mA. Range 10m. Potential-free output contact. Class S44 series.

## Wall-mounted wired volumetric detectors

AF961   AF962

AF963N

**AF962**
Wired PIR detector. Pulse counter. Range 15m. Power consumption 7mA.

**AF961**
Joint for AF962 wall detectors.

**AF963N**
Dual technology detector with anti-shielding. Power consumption 30mA. Supplied with joint.

## Outdoor wired detectors

AF969F   AF969S

**AF969F**
Dual technology curtain detector for entrance protection. Maximum range: 12m. Power consumption 32mA. Complies with EN 50131-2-4 Grade 2. Environmental class IV (outdoor). Dimensions (110x44x46mm). Supplied with canopy, corner mounting bracket (90°) and PET immunity lens.

**AF969S**
Joint for AF969F.

**Dimensions**
87x32x35 mm
**Colour**
RAL 9016.

AF973F

**Top view**

1m
0
1m

2m    4m    6m
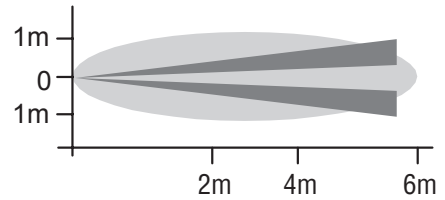
### Entrance and window protection

UP
B
2.5m
Max
1m
2,2m
3,7m

UP o
DOWN
S
2.5m
Max
1m
1,5m
1,5m
4,5m

UP o
DOWN
S
3m
Max
1.5m
1,2m
1,2m
5,0m

UP o DOWN
S
Max
2,8m
2,8m

AF973F

**Top view**

94°

**Side view**

1.2 m
0.8 m

12 m   15 m
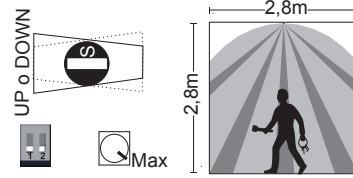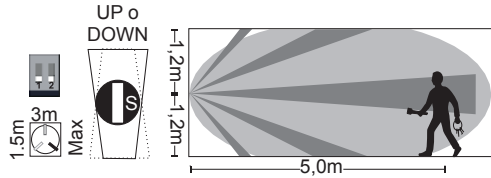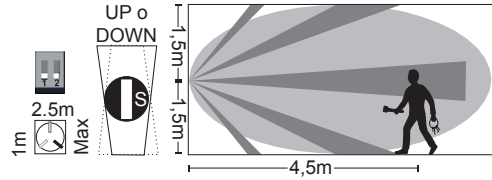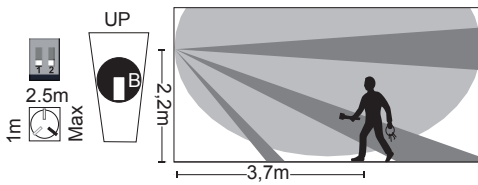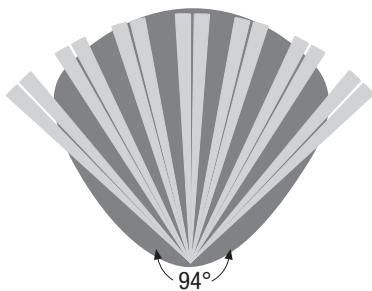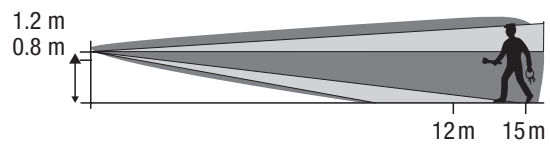
### Installation height
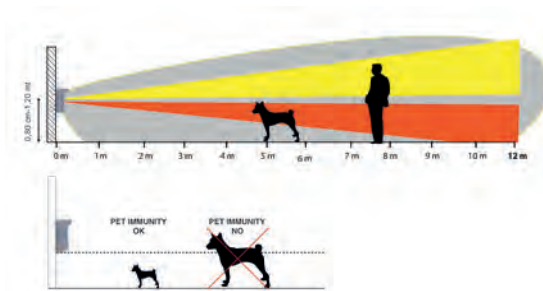
mount the sensor at a height
greater than the height of the
animal to be detected

0 m  1m  2m  3m  4m  5m  6m  7m  8m  9m  10 m  12 m

PET IMMUNITY
OK

PET IMMUNITY
NO

## Wired, curtain effect detectors



AF973F

### AF973F

Dual technology curtain detector for entrance protection. Maximum range: 6m. Power consumption 27mA. Complies with EN 50131-2-4 Grade 2. Environmental class III (sheltered outdoor).
Dimensions (LxHxD): 87x32x35 mm.

## Wall-mounted wired volumetric detectors



AF974F          AF974S

### AF974F

Triple-sensor, volumetric motion detector: dual PIR (passive infra-red detector that detects items of different temperature to the background and generates an alarm) and microwave (which analyses the reflected radiation of moving bodies). The anti-masking system makes it possible to detect items both in the immediate vicinity of the detector and directly on the sensor lens. Supplied with rain cover.
Dimensions (LxHxD): 185x85x80 mm.

### AF974S

Bracket supplied or via 45° corner joint



WALL FIX BRACKET

LENS COVER

COVER

FLAT CABLE CONNECTION



UPPER CLOSURE TAB

LOWER CLOSURE TAB
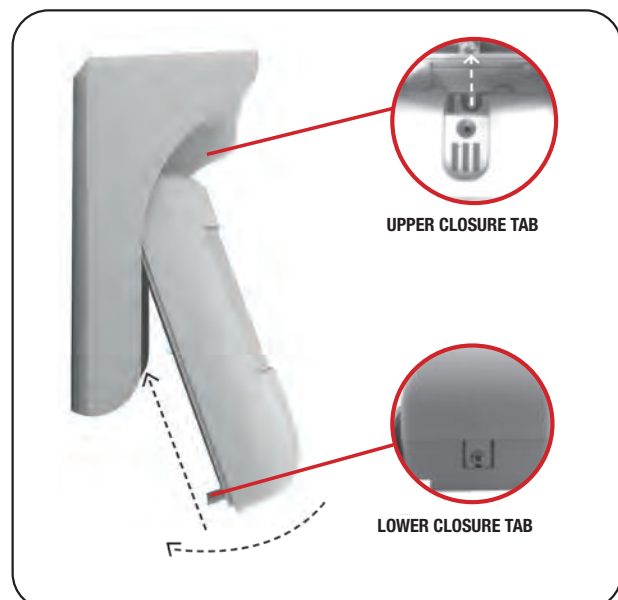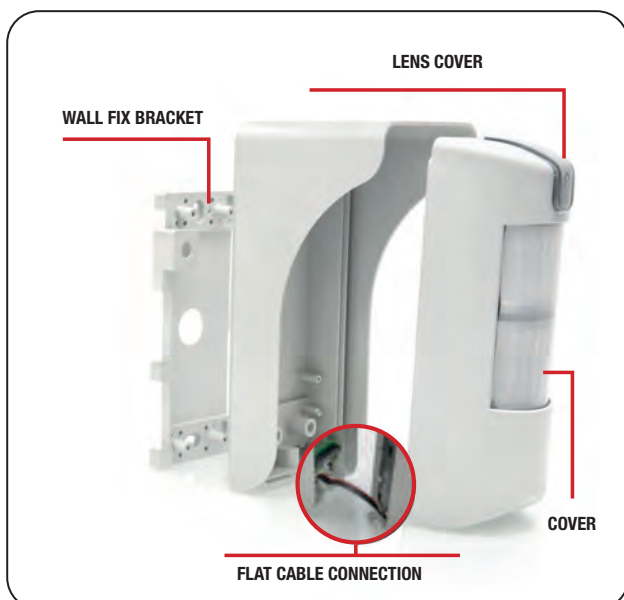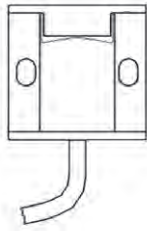
AFIN1

**Dimensions**
33x33x24 mm.
**Colour**
White

| Relative humidity max | dry environments |
|---|---|
| Exit | NC contact, max 100 Vdc, max 100 m, max power 3 W |
| Cable length | 2 meters |
| Material | white thermoplastic |
| Protection rating | IP54 |
| Operating temperature | -25°C ÷ +55°C |
| Degree of security | CEI 79-2 - Direttiva 2002/95/CE RoHS |
| Dimensions (WxDxH) | 33 x 33 x 24 mm. |

AF933

**Dimensions**
140x42x15,5 mm.
**Colour**
White

| Material | die-cast aluminum |
|---|---|
| Maximum relative humidity | 95% max a 40°C (CEI 79-2) |
| Contact capacity NC | 1 A max, 200 Vcc max , P = 10 W max |
| Maximum distance Y I X for operation on non-ferrous material | 50 I 40 mm |
| Maximum operating distance Y on ferrous materials | 35 mm |
| Caps | anti-unscrewing |
| Cable length | 1,2 meter |
| Steel cable protection sheath covered in black PVC | 1 meter |
| Security degree according to EN 50131-2-6 | II |
| Environmental class according to EN 50130-5 | IV |
| Operating temperature | -25°C ÷ +75°C |
| Degree of protection | IP65 |
| Degree of security | EN 50131-2-6 : 2008 - EN 50130-4 : 2011- EN 61000-6-3 : 2007 + A1 : 2011 - Direttiva RoHS |
| Dimensions (WxDxH) | 33 x 33 x 24 mm. |

**AF902**
Shell magnetic contact.

**AF903**
Surface-mounted wire magnetic contact.

**AF930**
Flush-mounted, brass magnetic contact for security doors.

**AF931**
Surface-mounted magnetic contact via power cable in aluminium for metal frames.

**AF932**
Surface-mounted, brown, magnetic contact via wire in aluminium.

**AF933**
Magnetic contact via wire in aluminium for overhead doors.

**AFRTP1**
Wired roller shutter movement detector. Use with AF914R-DB detector or with AFIP1.

**AFIP1**
Pulse counter board for AFRTP1. Used for connecting the AFRTP1 detector to the input of wired control units. Power supply 12VDC.

**AFIN1**
Inertial vibration detector made in thermoplastic material.
Suitable for the protection of doors, windows, glass panes or wherever impact detection is required. Must be interfaced to the AFIP2 pulse counter board, which allows the sensitivity to be adjusted.

**AFIP2**
Pulse counter board for AFIN1.
Used for connecting the AFIN1 detector to the input of wired control units.

AF902

AF903

AF930

AF931

AF932

AF933

AFRTP1

AFIN1

AFIP2      AFIP1

AF970R-DB

**Dimensions**
150x67x25 mm.
**Colour**
RAL 9016.

| Power supply | Lithium battery CR123A 3 V (1.4 Ah), supplied |
|---|---|
| Current consumption at rest | < 20 µA |
| Current consumption in operation | < 55 mA |
| Autonomy in years - approx. | 2 |
| Dual-frequency wireless transmission | GFSK Dual Band 433.54-433.92 MHz; 868.30-868.94 MHz |
| Insulation (class) | Class II |
| Protection rating | 50 |
| Operating temperature | -10 °C ... +40°C |
| Degree of security | EN 50131 GRADE 2 |
| Dimensions (WxDxH) | 11 x 84 x 32 mm |
| Weight | 20 g |
| Wireless range | 50 m |

AF943R

**Dimensions**
11x84x32 mm
**Colour**
RAL 7035.

| Power supply | 1 x CR2032 3 V |
|---|---|
| Current consumption at rest | < 2 µA |
| Current consumption in operation | < 55 mA |
| Autonomy in years - approx. | > 3 |
| Dual-frequency wireless transmission | GFSK Dual Band 433.54-433.92 MHz; 868.30-868.94 MHz |
| Wireless range in open air space, disturbance-free | > 100 m |
| Environmental class in accordance with EN 50131-3, EN 50131-5-3 Safety Grade 2 | II |
| Operating temperature | -10 °C ... +40°C |
| Dimensions (WxDxH) | 11 x 84 x 32 mm |
| Weight | 20 g |
| IP | 40 |

**Technical** Specifications

**AF970R-DB**

### AF970R-DB
Multifunction, dual band keypad for wireless control units. Two-way dialogue.
Backlit LCD for system status/fault indication. Battery 1 x CR123 included. Integrated AF340-T tag reader. Dimensions: 150x67x25mm.

### AF943R
4-button remote control for wireless system. Allows control of wireless control units. Rolling code change mode. Two-way dialogue with wireless range stations. On-board system status display via LED.
Battery: 1 x CR2032 included.
Colour RAL 7035. Dimensions 11x84x32 mm



**AF943R**

Up to 6 functions may be customised and recalled from among the following:

- Arming (even partial)
- Disarming
- Partialising
- Medical
- Panic

- Robbery
- Home automation (for relay control)
- Home automation scenarios
- Automation.

## MULTIFUNCTIONAL REMOTE CONTROL - HOME AUTOMATION INTERACTION

Option of using the same remote control to arm/disarm the burglar alarm and to call up home automation scenarios (if the control unit is interfaced with the AVE DOMINAPLUS home automation system). For example, in the same installation the following can be carried out:

a) Disarming the anti-intrusion system
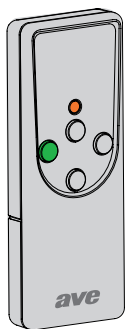
TS01



**AF943R**

**AF927PLUSTC**

**System Display OFF**

b) Activation of home automation scenario 'EXIT': switching off all lights, closing all rolling shutters, arming the anti-intrusion system.
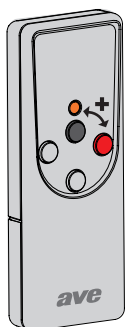
TS01



**AF943R**

**AF927PLUSTC**

**EXIT scenario under way**

AF44x045

**Dimensions**
22,5x45 mm (1 modulo)
**Colour**
RAL 9010 Domus Series - RAL 7016 Tekla Series- RAL 1013 Class Series
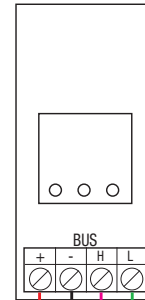RAL 9017 Life Series - RAL 9007 Allumia Series
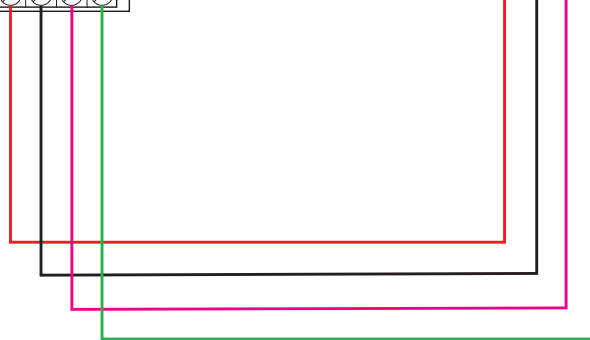
**AF927PLUSTC - AF927PLUS**

**AF44x045**

PRG          +- HL

**AF927INTFIL**

AF927INTFIL

PRG          BUS
             +  -  H  L
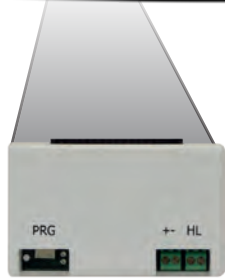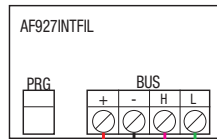
JP1: TERMINATION RESISTANCE
(ON IF THE DEVICE IS THE LAST
ELEMENT OF THE BRANCH)

BUS
+  -  H  L

**RADIO**

**domina smart** — Anti-intrusion System — **ave**

**AF340-T**

**AF340-T**
Transponder key. Operates with AF441045, AF442045, AF443045 AF445045, AF449045 readers and AF949PLUS, AF999PLUS, AF927PLUS, AF927PLUSTC control units.

**Flush-mounted transponder key reader**

**FILO**

AF441045    AF445045    AF449045

AF442045    AF443045

**AF441045**
Domus series transponder key reader. Allows arming (full or partial mode) and disarming of the AF999PLUS, AF949PLUS, AF927PLUS and AF927PLUSTC control units. It can also be used for access control.

**AF442045**
Life series transponder key reader. Allows arming (full or partial mode) and disarming of the AF999PLUS, AF949PLUS, AF927PLUS and AF927PLUSTC control units. It can also be used for access control.

**AF443045**
Allumia series transponder key reader. Allows arming (full or partial mode) and disarming of the AF999PLUS, AF949PLUS, AF927PLUS and AF927PLUSTC control units. It can also be used for access control.

**AF445045**
Tekla series transponder key reader. Allows arming (full or partial mode) and disarming of the AF999PLUS, AF949PLUS, AF927PLUS and AF927PLUSTC control units. It can also be used for access control.

**AF449045**
Class series transponder key reader. Allows arming (full or partial mode) and disarming of the AF999PLUS, AF949PLUS, AF927PLUS and AF927PLUSTC control units. It can also be used for access control.

**AF963R-DB** is a passive, wireless infrared detector designed to detect human intrusion into protected areas and transmit a wireless alarm. Equipped with the AF961N joint, it offers a high degree of installation flexibility.

**Technical specifications**

| | |
|---|---|
| **Power supply** | 1 x CR123 3V (1.4Ah) |
| **Current consumption at rest** | < 20 μA |
| **Current consumption in operation** | < 55 mA |
| **Autonomy in years - approx.** | > 4 |
| **Supervision** | 18 minutes |
| **Dual-frequency wireless transmission** | GFSK Dual Band 433.54-433.92 MHz; 868.30-868.94 MHz |
| **Wireless range in open air space, disturbance-free** | > 100 m |
| **Insulation (class)** | III |
| **Environmental class in accordance with EN 50131-2-2, EN 50131-5-3 Degree of security 2** | III |
| **Operating temperature** | -10 °C ... +40°C |
| **Dimensions (WxDxH)** | 68 x 51 x 112 mm |
| **Weight** | 160 g |
| **IP** | 42 |

**Coverage diagram**

**Horizontal View**

19.5°

**Vertical View**

h = 1,9 - 2,3m

HOME AUTOMATION

HOTEL MANAGEMENT

VIDEO INTERCOMS

ANTI-INTRUSION

WIRING DIAGRAMS
AND INSTRUCTIONS
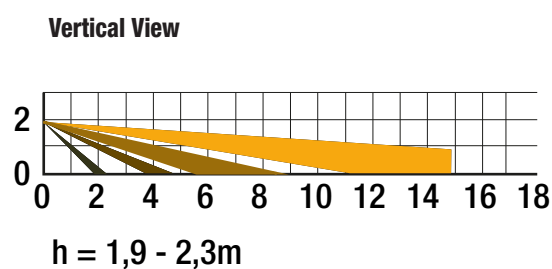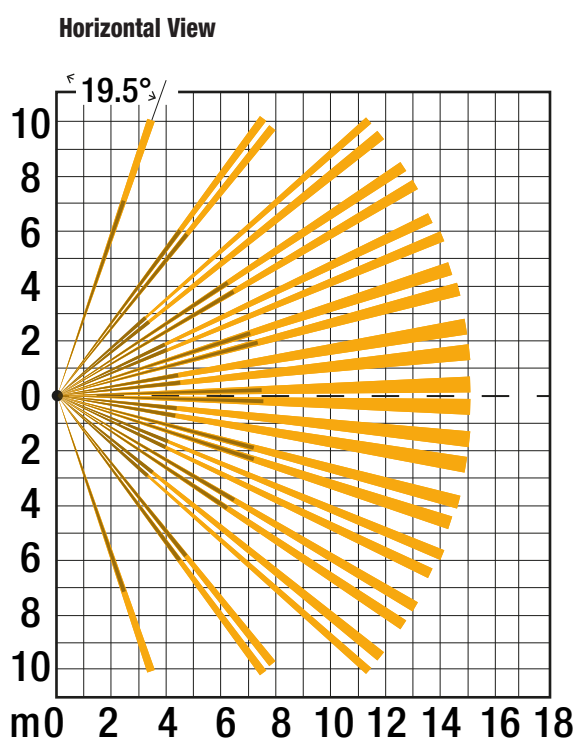
**AF963R-DB**
Wireless PIR detector. Dual-frequency, dual-band transmission.
Battery: 1 x CR123 included. Colour RAL 9016. Dimensions: 68 x 51 x 112 mm.

**AF961N**
Corner joint for AF963R-DB detector. Dimensions: 68 x 51 x 112 mm.

**AF961N**          **AF963R-DB**

## INFORMATION FOR CORRECT INSTALLATION



CAUTION          CAUTION
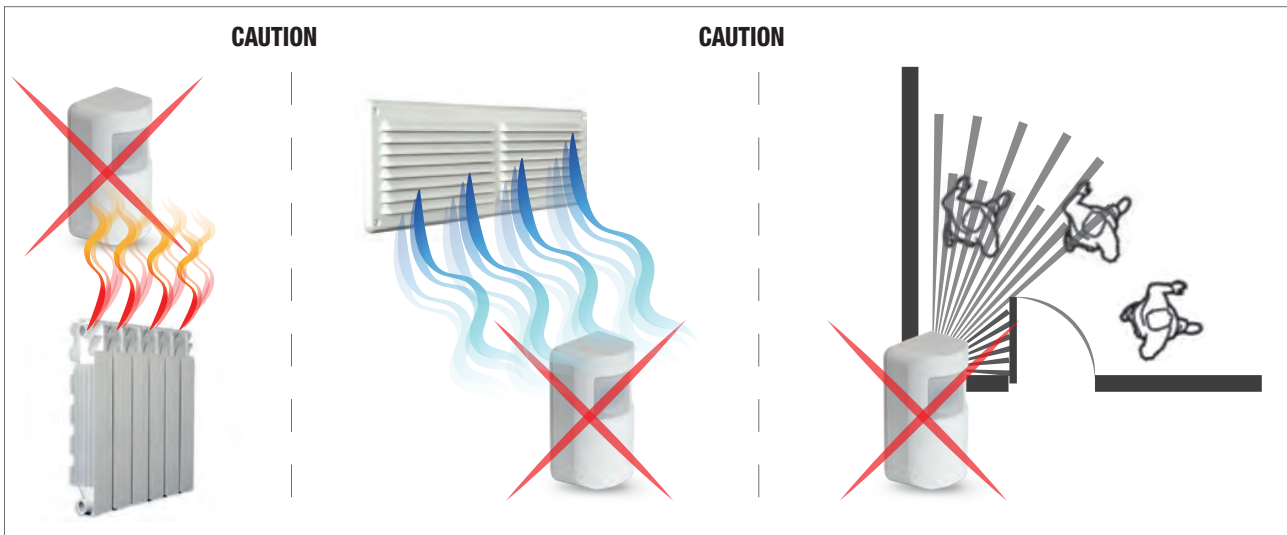
**Wall-mounted installation**
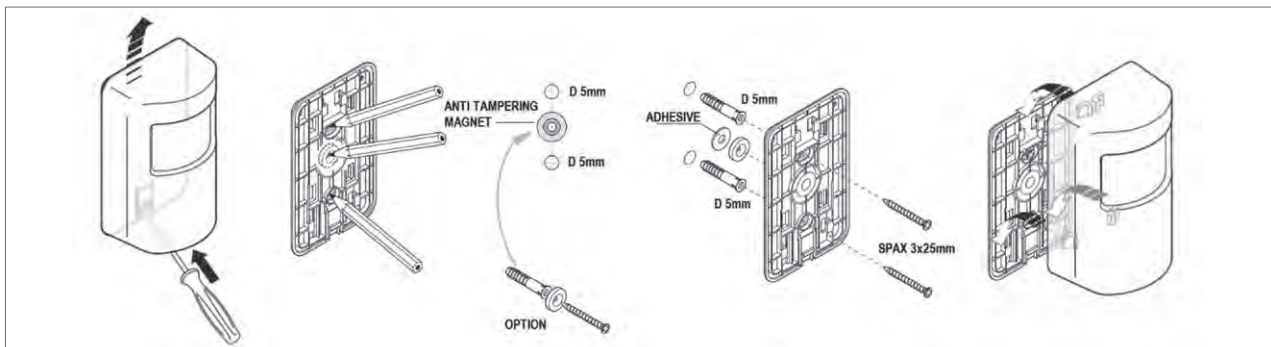


**Corner installation**
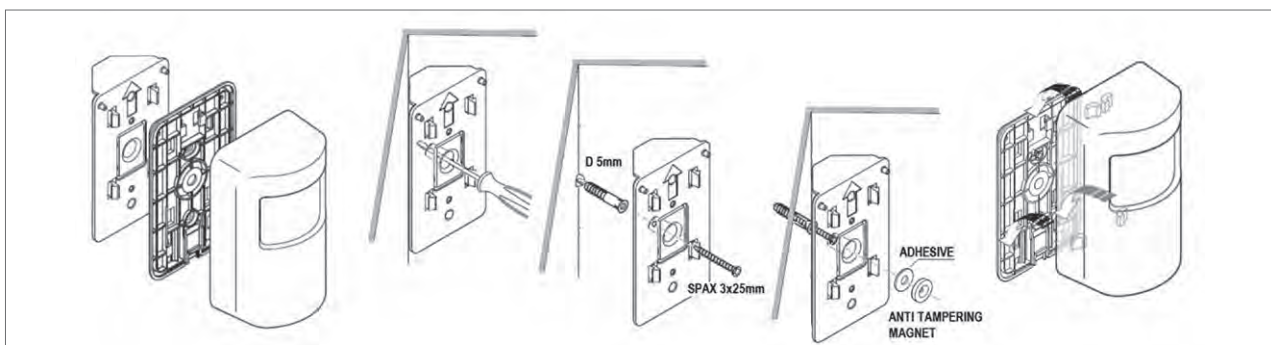
# DOMINA SMART ANTI-INTRUSION SYSTEM
## CONTACT VIA MULTIFUNCTIONAL WIRELESS AF915R-DB - AF915R-MDB

**AF915R-DB/AF915R-MDB** is a wireless device designed for the protection of window frames (doors/windows). When installed, it detects opening and/or break-ins. It also includes two wired inputs to which other magnetic contacts and/or rolling shutter sensors can be connected to increase system protection (e.g. louvre shutter or window protection).

**Technical specifications**

| | |
|---|---|
| Power supply | 1 x CR123 3V (1.4Ah) |
| Current consumption at rest | < 20 µA |
| Current consumption in operation | < 55 mA |
| Autonomy in years - approx. | > 4 |
| Supervision | 18 minutes |
| Dual-frequency wireless transmission | GFSK Dual Band 433.54-433.92 MHz; 868.30-868.94 MHz |
| Wireless range in open air space, disturbance-free | > 100 m |
| Insulation (class) | III |
| Environmental class in accordance with EN 50131-2-6, EN 50131-5-3 Degree of Security 2 | II |
| Operating temperature | -10 °C ... +40°C |
| Dimensions (WxDxH) | 23 x 25 x 134 mm |
| Weight | 120 g |
| IP | 40 |

**Technical Specifications**

**HOW TO USE THE CONTACT'S AUXILIARY INPUTS**

## AF915R-DB

Wireless perimeter detector - white. Dual-frequency( dual-band transmission). Differentiated alarm signal via magnetic contact and 2 terminal board auxiliary inputs. Double reed, including one for magnetic tamper function. Battery: 1 x CR123 included.
Colour RAL 9016. Contact dimensions: 23 x 25 x 134 mm.

## AF915R-MDB

Wireless perimeter detector - as above colour brown (RAL 8015).
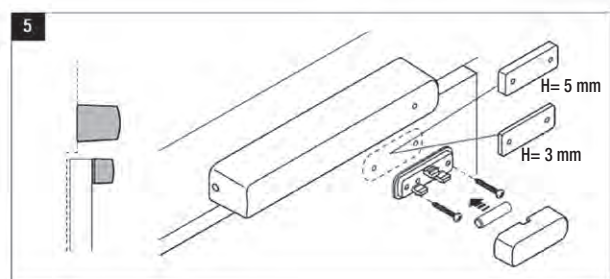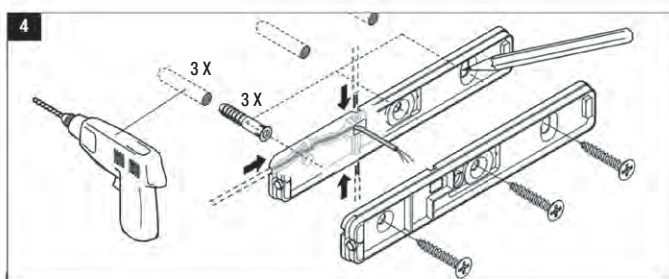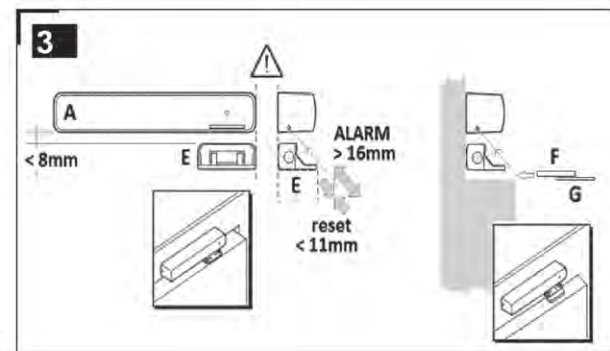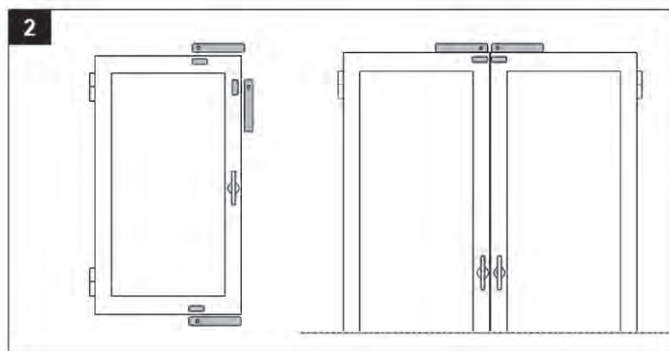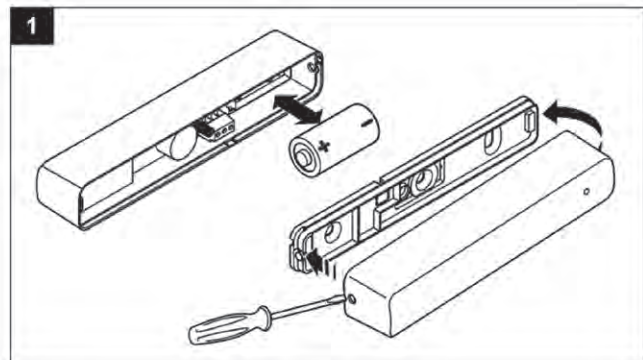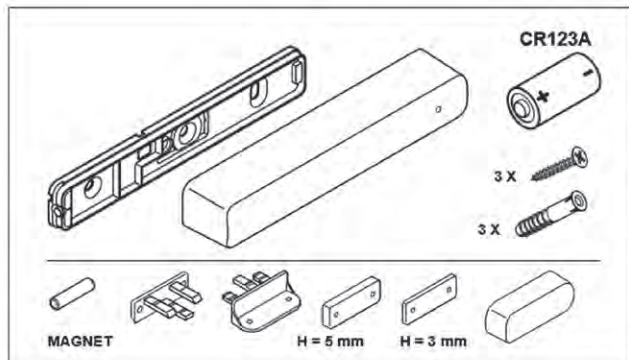
**AF915R-DB**          **AF915R-MDB**

## INFORMATION FOR CORRECT INSTALLATION

**AF965R-DB** is a dual PIR (passive infra-red detector) volumetric motion detector. The specific design of the device makes it particularly suitable for installation in the corners of doors and windows to signal when persons walk through them, thus making it a useful and discreet protection for any opening.

### Technical specifications

| | |
|---|---|
| Power supply | 1 x CR123 3V (1.4Ah) |
| Current consumption at rest | < 30 µA |
| Current consumption in operation | < 55 mA |
| Autonomy in years - approx. | > 3 |
| Supervision | 18 minutes |
| Dual-frequency wireless transmission | GFSK Dual Band 433.54-433.92 MHz; 868.30-868.94 MHz |
| Wireless range in open air space, disturbance-free | > 100 m |
| Insulation (class) | III |
| Environmental class in accordance with EN 50131-2-2, EN 50131-5-3.  Degree of Security 2 | III |
| Operating temperature | -10 °C ... +40°C |
| Dimensions (WxDxH) | 79 x 23 x 79 mm |
| Weight | 160 g |
| IP | 42 |

**COVERAGE DIAGRAM AND OPERATION**



OUTER ZONE        INNER ZONE

ALARM        ALARM
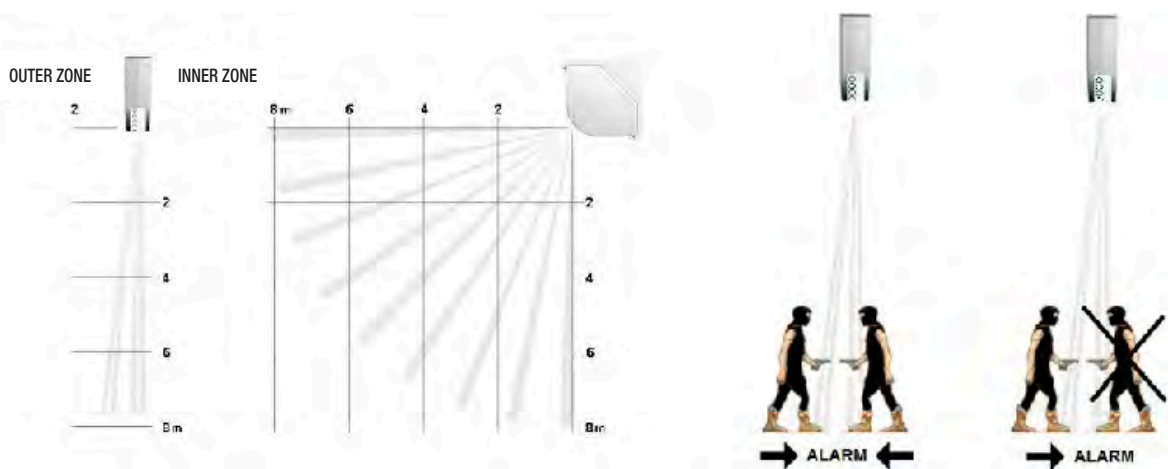
**Note:** An alarm is triggered by traversing both barriers created by the IR-P sensors, or first the outer one, then the inner one (not the other way around).

HOME AUTOMATION

HOTEL MANAGEMENT

VIDEO INTERCOMS

ANTI-INTRUSION

WIRING DIAGRAMS
AND INSTRUCTIONS

## AF965R-DB

Dual band wireless perimeter detector with dual PIR and anti-shielding sensors. An alarm is triggered by traversing both barriers created by the PIRs, or first the outer one, then the inner one (not the other way around): the two options are selectable according to requirements. Range 8m. Environmental class III (sheltered outdoor). Battery: 1 x CR123 included. Colour RAL 9016. Dimensions: 79x23x79 mm.

**AF965R-DB**

## INFORMATION FOR CORRECT INSTALLATION
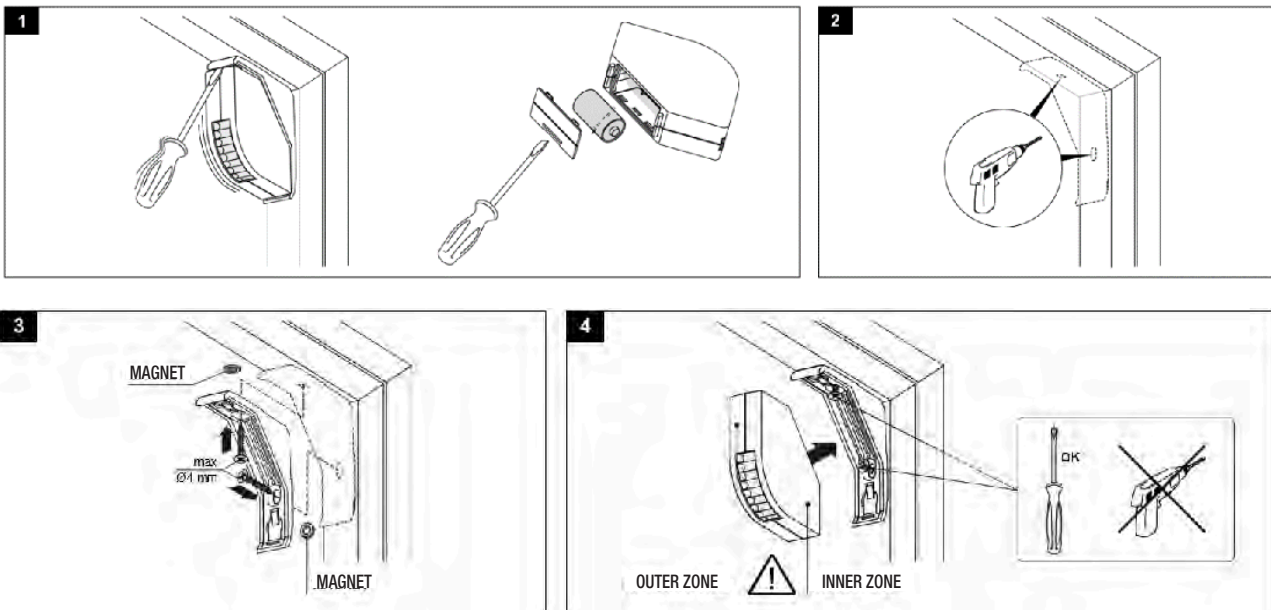
Dual-band, wireless outdoor detector with two passive infrared sensors (dual PIR) and one microwave sensor (MW); pet immunity function. The supplied anti-removal magnet must always be fitted. Programming, adjustments and testing of the device are carried out at the control unit, without having to access the inside of the device, which is protected against attempts at tampering and removal. For 'flag' installations, joint art. no. AF964R-DBS is available.

**Technical specifications**

| | |
|---|---|
| Power supply | 2 x CR123 3V (1.4Ah) |
| Current consumption at rest | < 50 µA |
| Current consumption in operation | < 55 mA |
| Autonomy (years) | 2 |
| Supervision | 18° |
| Dual-frequency wireless transmission | GFSK Dual Band 433.54-433.92 MHz; 868.30-868.94 MHz |
| Wireless range in open air space, disturbance-free | >100m |
| Insulation (class) | IV |
| Environmental class in accordance with EN 50131 | 2 |
| Operating temperature | -25 °C ... + 55 °C |
| Dimensions (WxDxH) | 73 x 44 (+6) x 181 mm |
| Weight | 520 g |
| IP | 64 |

**Coverage diagram**

**Horizontal View**

**Vertical View**
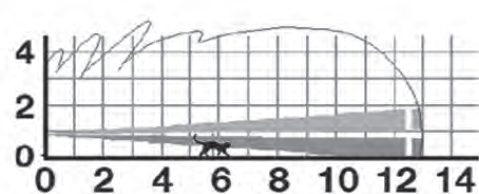
**AF964R-DBS**      **AF964R-DB**

**Batteries:** 2 x CR123 included.

**AF964R-DB**
Outdoor volumetric dual infrared + microwave motion detector, pet immunity function. Supplied with wall-mounting bracket. The supplied anti-removal magnet must always be fitted. 'Flag' installation using joint AF964R-DBS.

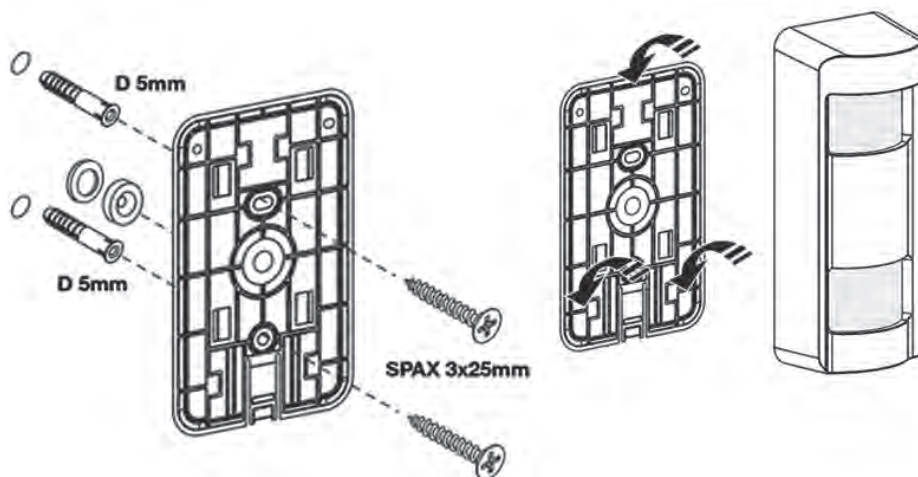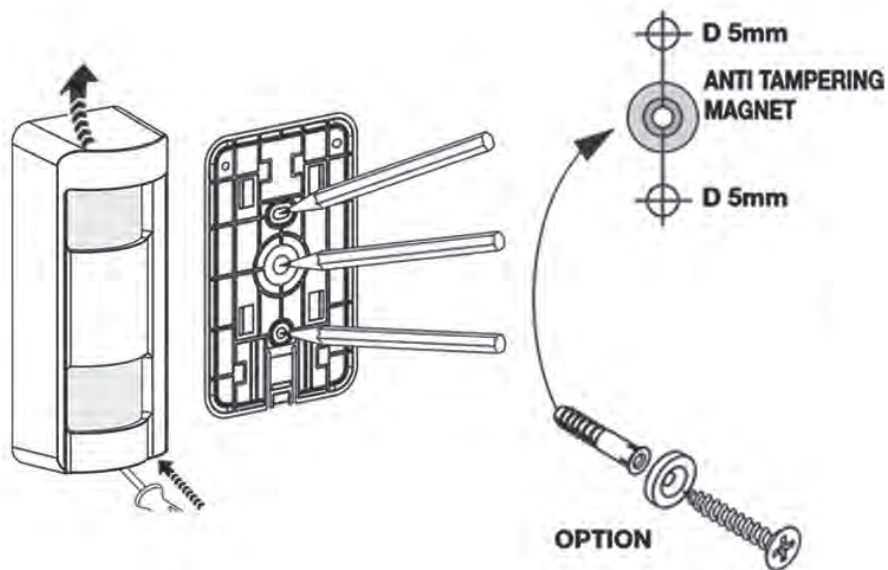**AF964R-DBS**
Joint for AF964R-DB and AF976R-DB

**INFORMATION FOR CORRECT INSTALLATION**

Anti-tamper *Magnet*

❶   ❷   ❸

AF964R-DB
AF976R-DB
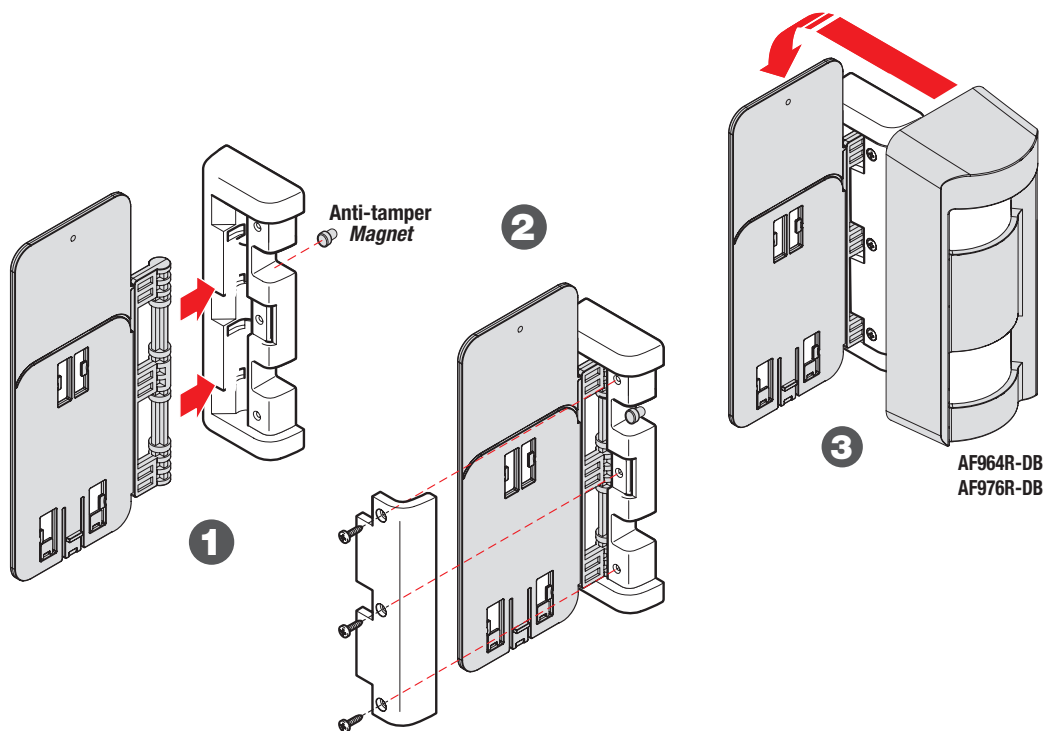
Outdoor dual PIR curtain effect detector. Range 25m. Supplied with wall-mounting bracket. The supplied anti-removal magnet must always be fitted. 'Flag' installation using joint AF964R-DBS. Programming, adjustments and testing of the device are carried out from the control unit's software, without having to access the inside of the device, which is protected from attempts at tampering and removal.

**Technical specifications**

| | |
|---|---|
| Power supply | 2 x CR123 3V (1.4Ah) |
| Current consumption at rest | < 50 µA |
| Current consumption in operation | < 55 mA |
| Autonomy (years) | 2 |
| Supervision | 18° |
| Dual-frequency wireless transmission | GFSK Dual Band 433.54-433.92 MHz; 868.30-868.94 MHz |
| Wireless range in open air space, disturbance-free | >100m |
| Insulation (class) | IV |
| Environmental class in accordance with EN 50131 | 2 |
| Operating temperature | -25 °C ... + 55 °C |
| Dimensions (WxDxH) | 73 x 44 (+6) x 181 mm |
| Weight | 520 g |
| IP | 64 |

**Coverage diagram**

RADIO

domina smart
Anti-intrusion System

ave ®

HOME AUTOMATION

HOTEL MANAGEMENT

VIDEO INTERCOMS

ANTI-INTRUSION

WIRING DIAGRAMS
AND INSTRUCTIONS

**AF976R-DB**
Outdoor volumetric dual infrared + microwave motion detector, pet immunity function. Supplied with wall-mounting bracket. The supplied anti-removal magnet must always be fitted. 'Flag' installation using joint AF964R-DBS.

**AF964R-DBS**
Joint for AF964R-DB and AF976R-DB

**AF964R-DBS**    **AF976R-DB**

**Batteries:** 2 x CR123 included.

## INFORMATION FOR CORRECT INSTALLATION

**AFTRA03** is a Dual Band transceiver that extends the wireless range between the alarm control unit and the devices connected to it (to address issues related to extended distances and/or presence of obstacles). The device operates at 230V and is also equipped with an internal battery that allows it to operate even in the absence of mains voltage for several hours, guaranteeing continuity of communication between the various devices in the system.

**Technical specifications**

| | |
|---|---|
| **Power supply** | 230 Vac, 60-50 Hz PS Type B + Buffer battery CR123 3V 1.4Ah |
| **Mains power consumption** | 1.8 W |
| **Stand-by current consumption with battery** | 23 mA |
| **Transmission current consumption** | < 55 mA |
| **Autonomy in hours - approx.** | 48 |
| **Supervision** | 18 minutes |
| **Dual-frequency wireless transmission** | GFSK Dual Band 433.54-433.92 MHz; 868.30-868.94 MHz |
| **Wireless range in open air space, disturbance-free** | > 100 m |
| **Insulation (class)** | II |
| **Environmental class in accordance with EN 50131-3, EN 50131-6, EN 50131-5-3 - Safety Grade 2** | II |
| **Operating temperature** | -10 °C ... +40°C |
| **Dimensions (WxDxH)** | 121 x 55 x 35(+32 mm) mm |
| **Weight** | 200 g |
| **IP** | 51 |

**EXAMPLE OF OPERATION**



Repeater

Anti-intrusion control unit

HOME AUTOMATION

HOTEL MANAGEMENT

VIDEO INTERCOMS

ANTI-INTRUSION

WIRING DIAGRAMS
AND INSTRUCTIONS

**AFTRA03**
Dual band wireless signal repeater. Enables transmission range of transmitters to be increased. Power supply: 230 Vac. Includes buffer battery (CR123 3 V/1.4 Ah).
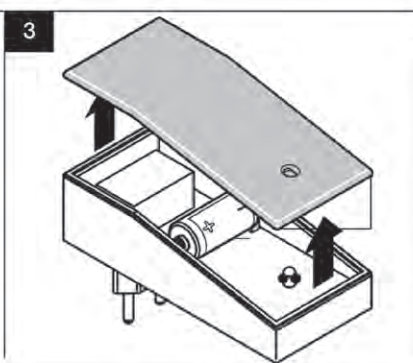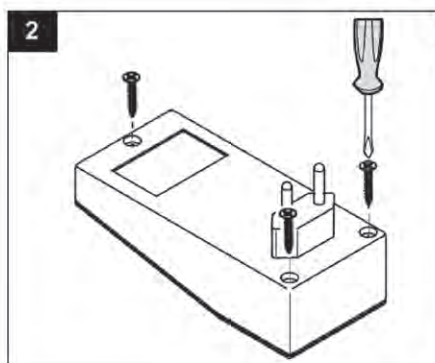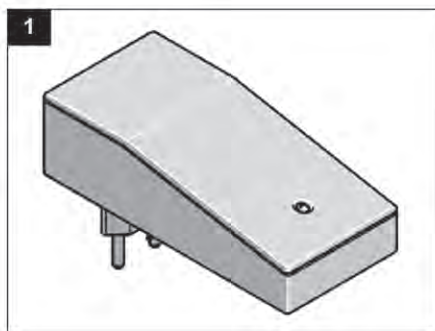Colour RAL 9010. Dimensions 121 x 55 x 67 mm.

**AFTRA03**

## INFORMATION FOR CORRECT INSTALLATION
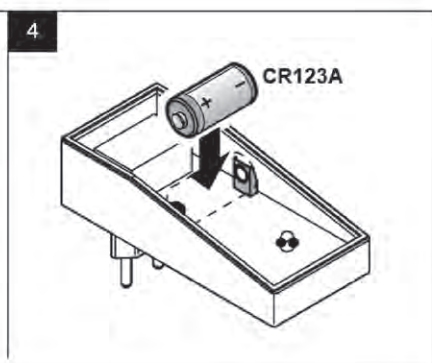
# TECHNICAL CATALOGUE
## DOMINA SMART ANTI-INTRUSION SYSTEM
### WIRELESS SIREN WITH VOICE MESSAGES AF53903R-DB

**AF53903R-DB** is a wireless siren, a component of the alarm system featuring loud sound and capable of reproducing voice messages: the flashing LED light signals alarm status and deters intruders.

**Technical specifications**

| Power supply | 6 x LR 20 1.5 V (16Ah) |
|---|---|
| Current consumption at rest | < 360 μA |
| Current consumption in operation | < 660 mA |
| Autonomy in years - approx. | > 4 |
| Supervision | 18 minutes |
| Dual-frequency wireless transmission | GFSK Dual Band 433.54-433.92 MHz; 868.30-868.94 MHz |
| Wireless range in open air space, disturbance-free | > 100 m |
| Insulation (class) | III |
| Environmental class in accordance with EN 50131-4 - Safety Grade 2 | III |
| Operating temperature | -25 °C ... +55°C |
| Dimensions (WxDxH) | 350 x 100 x 240 mm |
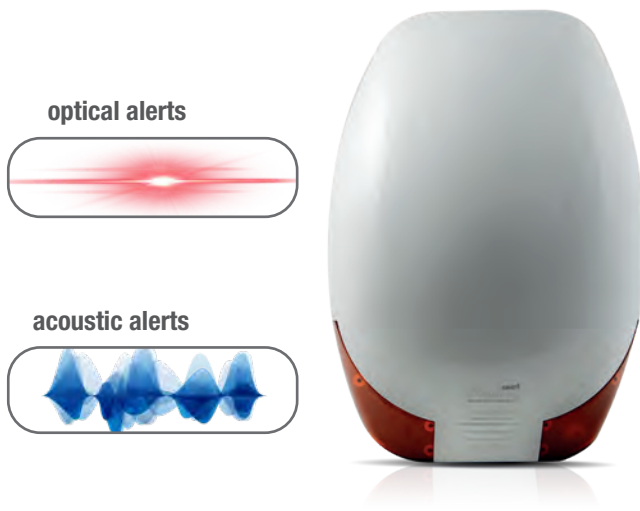
**optical alerts**

**acoustic alerts**

Option of independently managing optical and acoustic alerts for all types of events. For example, flashing can be used for deterrence and flashing plus acoustic warning to signal an alarm.

AVE Patent 'No. 245 EU model'

**BOARD FOR VOICE MESSAGE RECORDING MODE**

Technical Specifications
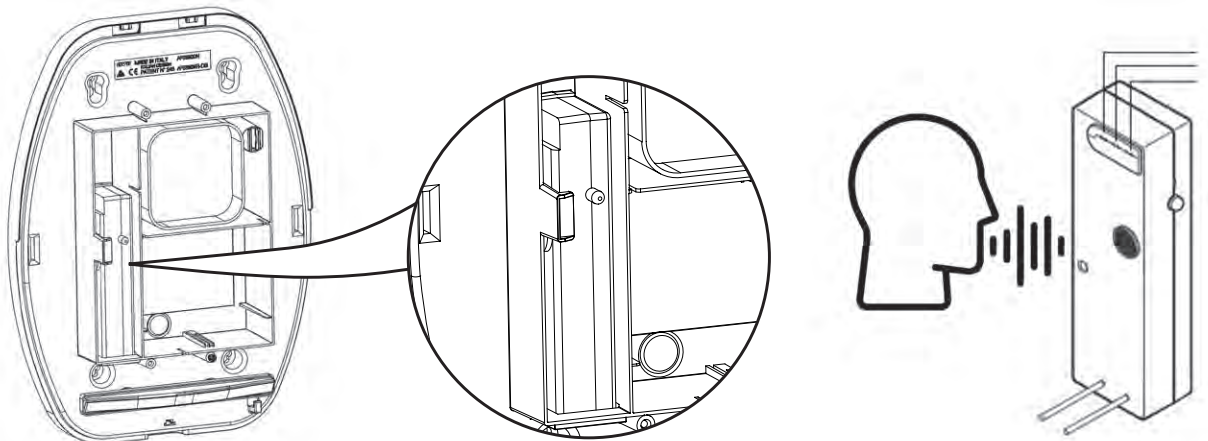
## AF53903R-DB

Dual band wireless siren with voice messages. Option of selecting optical and/or acoustic alerts independently for different events.
Batteries: 6 X LR20 included.
Colour RAL 9016. Dimensions 350 x 100 x 240 mm.

**AF53903R-DB**
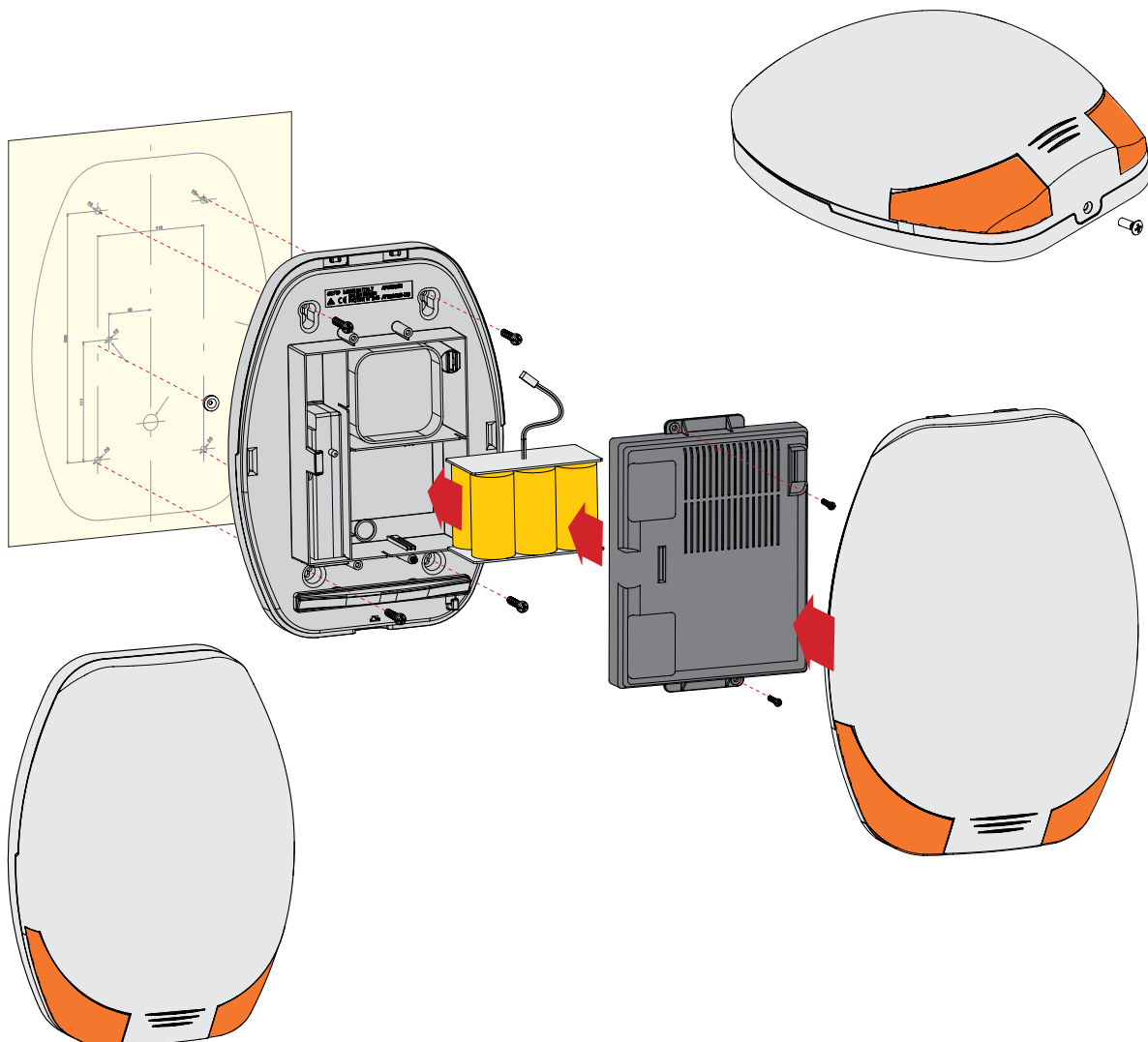
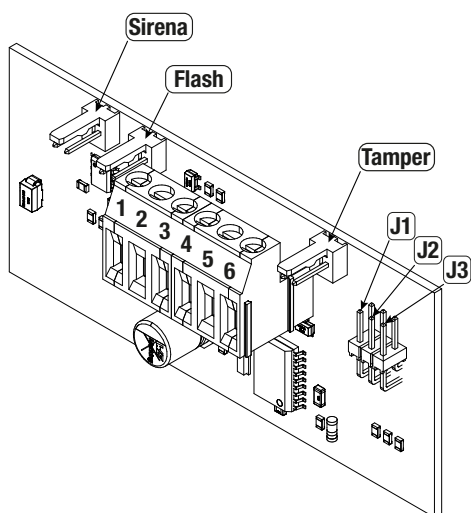## INFORMATION FOR CORRECT INSTALLATION

AF53900N

**Dimensions**
350 x 100 x 240 mm.
**Colour**
RAL 9016.

Self-powered wired siren for anti-intrusion systems.
Fitted with a flash and protected against opening and removal.
Siren and flasher operate independently
of each other and with no-positive control.

**Technical specifications**

| | |
|---|---|
| Power supply | 10 - 14 VDC |
| Current consumption at rest | 0.2 mA max @ 12 VDC |
| Current consumption in operation | 0.2 mA max @ 12 VDC |
| Siren control | with no-positive |
| Flash control | with no-positive, independent of siren control |
| Internal battery | Pb-Gel 12 V - 1.8 Ah (Art. AF911) |
| Environmental class in accordance with EN 50131-4 - Safety Grade 2 | IV |
| Operating temperature | -25 °C ... +55°C |
| Dimensions (WxDxH) | 350 x 100 x 240 mm |

| Terminal | Description | Notes |
|---|---|---|
| Terminal 1 | Positive power supply and battery charging | Power supply +13.8 VDC |
| Terminal 2 | Negative power supply and battery charging | Power supply GND |
| Terminal 3 | Siren control | Siren control NC to positive |
| Terminal 4 | Flash control | Flash control NC to positive |
| Terminal 5.6 | Auto-protection tamper contact | Anti-tampering |



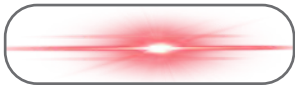| | | | |
|---|---|---|---|
| 1 | J1 Engaged<br>J2 Engaged | 1800 Hz<br>1300 Hz | 3s |
| 2 | J1 Engaged<br>J2 Not engaged | 1600 Hz<br>1400 Hz | 1s 0.5s |
| 3 | J1 Not engaged<br>J2 Not engaged | 1800 Hz<br>1300 Hz | 1s |
| 4 | J1 Not engaged<br>J2 Engaged | 1800 Hz<br>1300 Hz | 0.5s |

**Technical** Specifications

**AF53900N**
Self-powered outdoor siren. Acoustic pressure 123 dB at 1 m. IP34.
To be supplemented with 1 battery AF911.

**AF53900VN**
Siren with no internal components for use as a deterrent.

**AF53900N**
**AF53900VN**

**Batteries:** to be supplemented
with rechargeable battery
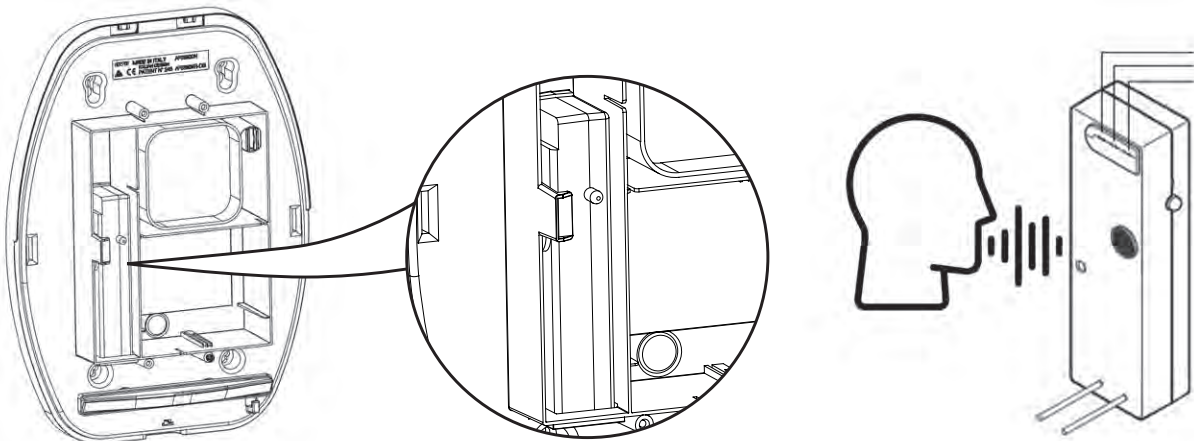Pb-Gel 12 V - 1.8 Ah (art. AF911)

**optical alerts**

**acoustic alerts**

Option of independently managing optical and acoustic
alerts for all types of events. For example, flashing
can be used for deterrence and flashing plus acoustic
warning to signal an alarm.
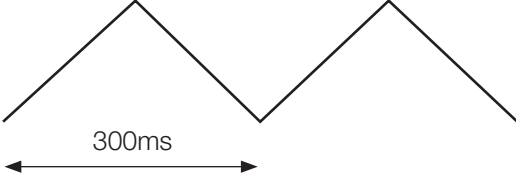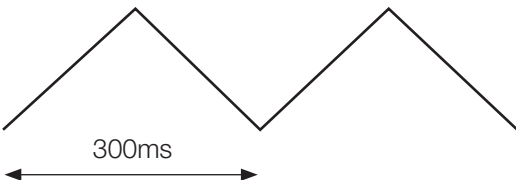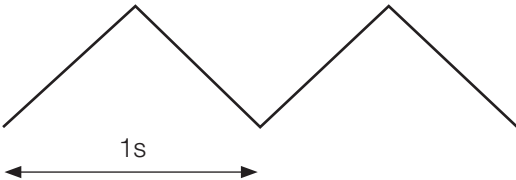
**BOARD FOR VOICE MESSAGE RECORDING MODE**

**Technical** Specifications

## SOUND SELECTION
The lateral dip switch (selectors 1 and 2) sets the following operating modes:

| S1 ON S2 ON | 4500 Hz 3500 Hz | 300ms |
|---|---|---|

- Minimum sound pressure @ 12VDC 3m: RMS = 89.0 dBA(1)
- Maximum consumption @ 12VDC: 120 mA
- The sound is not time-controlled. The siren continues to sound as long as it is powered. Likewise, the LEDs continue to flash.
- The red LED L1 flashes ON for 200ms and OFF for 800ms.

| S1 OFF S2 ON | 4500 Hz 3500 Hz | 300ms |
|---|---|---|

- Minimum sound pressure @ 12VDC 3m: RMS = 89.0 dBA(1)
- Maximum consumption @ 12VDC: 120 mA
- The sound is timed - after 2 minutes the acoustic alarm ceases and the red LEDs continue to flash.
- The red LED L1 flashes ON for 200ms and OFF for 800ms.

| S1 ON S2 OFF | 4500 Hz 3500 Hz | 1s |
|---|---|---|

- Minimum sound pressure @ 12VDC 3m: RMS = 90.0 dBA(1)
- Maximum consumption @ 12VDC: 120 mA
- The sound is timed - after 2 minutes the acoustic alarm ceases and the red LEDs continue to flash.
- The red LED L1 flashes ON for 200ms and OFF for 800ms.

| S1 OFF S2 OFF | 4500 Hz 3500 Hz | 300ms |
|---|---|---|

- Minimum sound pressure @ 12VDC 3m: RMS = 87.0 dBA(1)
- Maximum consumption @ 12VDC: 80 mA
- The siren operates as an alarm alert and the sound is not timed. The siren continues to sound as long as it is powered. The LEDs also continue to flash.
- The red LED L1 flashes ON for 200ms and OFF for 800ms.

**AF999RS**
Wall-mounted wired auxiliary siren. Acoustic pressure 90 dB at 3m.
Power supply 12 Vcc - 120mA.

**AF442099RS**
Red flush-mounted auxiliary siren. Can also be used as an acoustic warning device by setting two sound intensity levels. Choice of 4 different acoustic sounds. Acoustic pressure 90 dB at 3m. Power supply 12 Vcc. System 44.

**AF999RS**

**AF442099RS**

## INFORMATION FOR CORRECT INSTALLATION

**44A02**

**AF442099RS**

**44A03**

**Power supply**
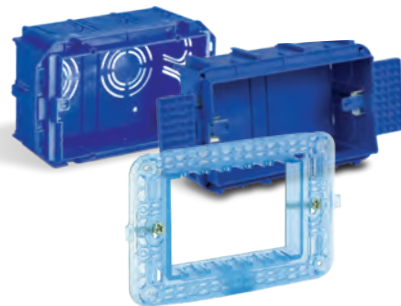
**Dip Switch positions**
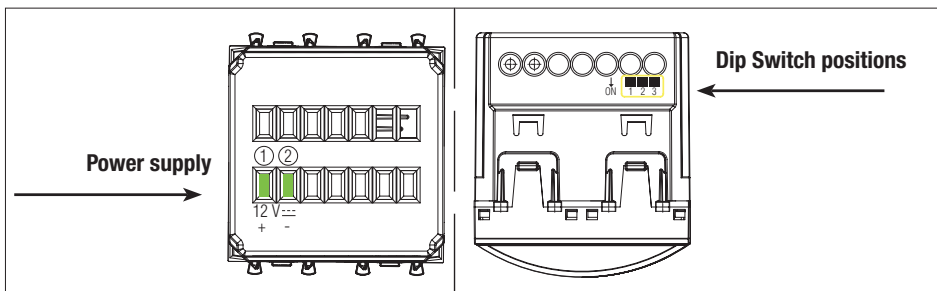
**\* Configuration default: S1=ON; S2=OFF; S3=ON**
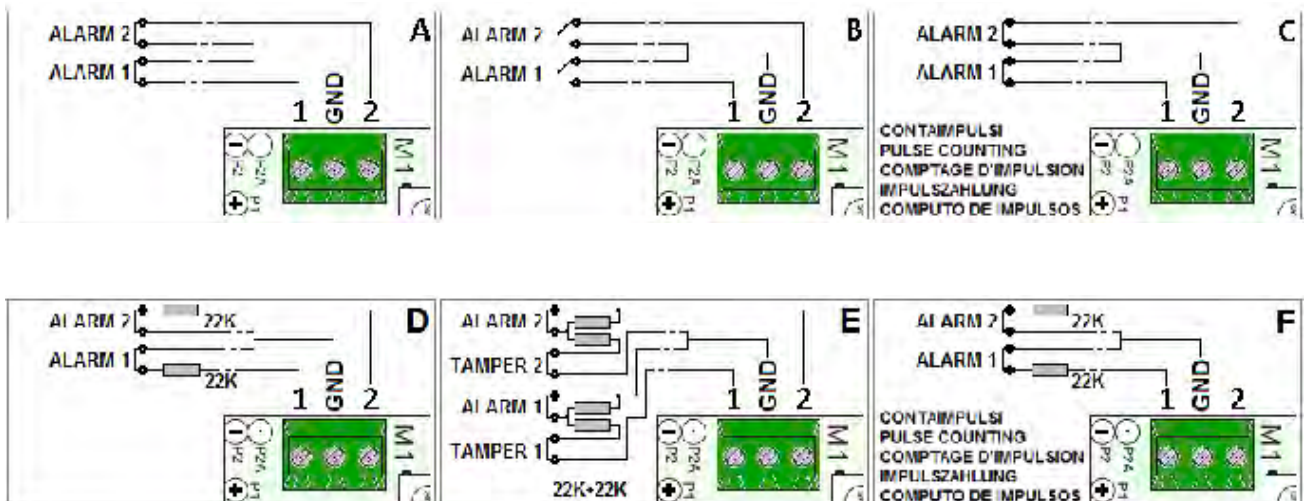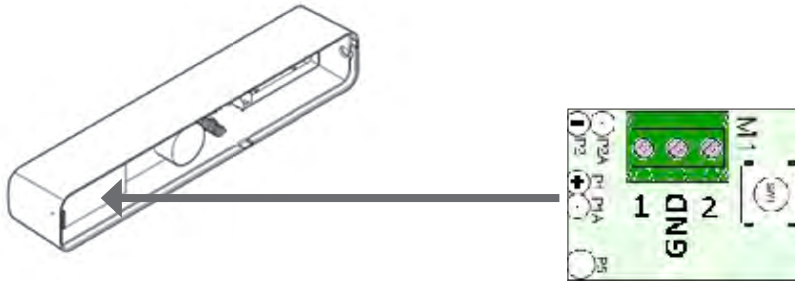
### WIRELESS INTERFACE FOR TECHNICAL ALARMS AFTR02

**AFTR02** is a wireless interface suitable for transmitting technical alarms generated by all types of sensors to the control unit via the opening/closing of a potential-free electrical contact.

### Technical specifications

| | |
|---|---|
| Power supply | 1 x CR123 3V (1.4Ah) |
| Current consumption at rest | < 20 µA |
| Current consumption in operation | < 55 mA |
| Autonomy in years - approx. | > 4 |
| Supervision | 18 minutes |
| Dual-frequency wireless transmission | GFSK Dual Band 433.54-433.92 MHz; 868.30-868.94 MHz |
| Wireless range in open air space, disturbance-free | > 100 m |
| Insulation (class) | III |
| Operating temperature | -10 °C ... +40°C |
| Dimensions (WxDxH) | 23 x 25 x 134 mm |
| Weight | 120 g |
| IP | 40 |

**HOW TO USE THE INTERFACE'S AUXILIARY INPUTS**





Technical Specifications

HOME AUTOMATION

HOTEL MANAGEMENT

VIDEO INTERCOMS

ANTI-INTRUSION

WIRING DIAGRAMS
AND INSTRUCTIONS

## AFTR02

Wireless interface for technical alarms - white. Dual-frequency( dual-band transmission). Differentiated alarm signal for the 2 terminal board auxiliary inputs. Allows any technical alarm equipped with a potential-free contact output to be interfaced. Battery: 1 x CR123 included.
Colour RAL 9016. Contact dimensions: 23 x 25 x 134 mm.

**AFTR02**

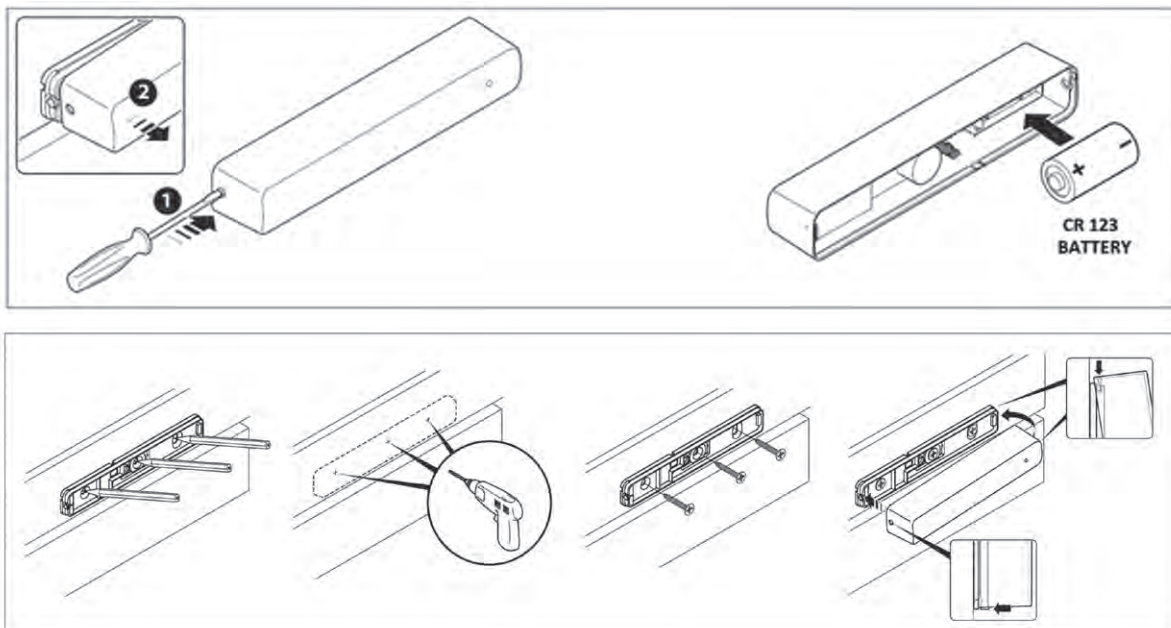## INFORMATION FOR CORRECT INSTALLATION



CR 123 BATTERY

## EXAMPLE OF OPERATION



AFTR02

AF927PLUSTC

RG1-M

GSM

21/06/19
10:20

Technical Alarm
**GAS ALARM**

21/06/19
10:21

Technical alarm
**GAS LEAKAGE ALARM**

16:40