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Wireless radio systems

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The growing demand for the expansion of electrical systems in homes and in the tertiary sector in order to install new controls or to add automation functions often means having to undertake masonry work, with all its inconveniences. To have at one's disposal a series of devices interconnected through a radio, allows the modification of the electrical system, introducing the various functionalities which modern living increasingly requires and allowing control from any fixed or mobile position. This can be done whilst avoiding the need to modify the building's structure.

Ave introduces a range of controls and radio actuators, perfectly integrated in security systems and domotics, composed of the following devices:
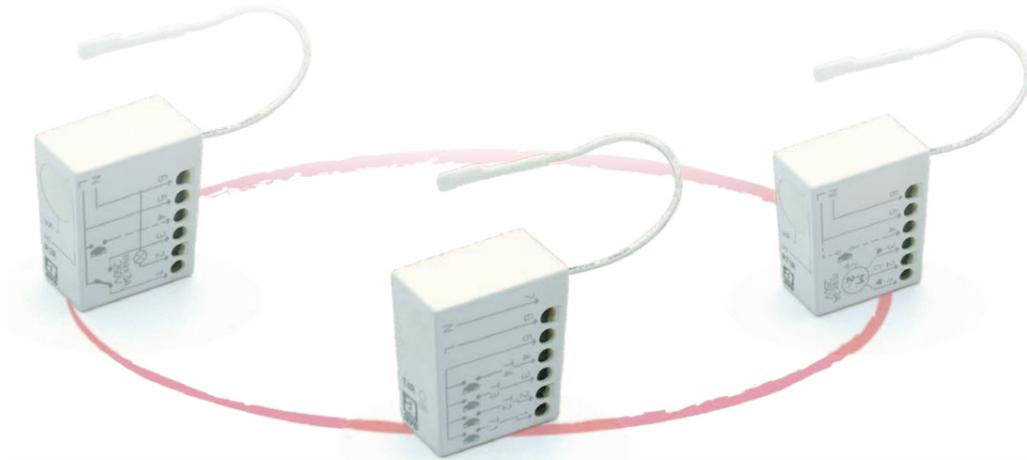
R1R1 channel radio receiver for generic electrical load control. Exit with change-over contact free from potential

T4R 4 channel transmitter. Allows the transmission of 4 radio commands to the R1R and RT01R receivers.
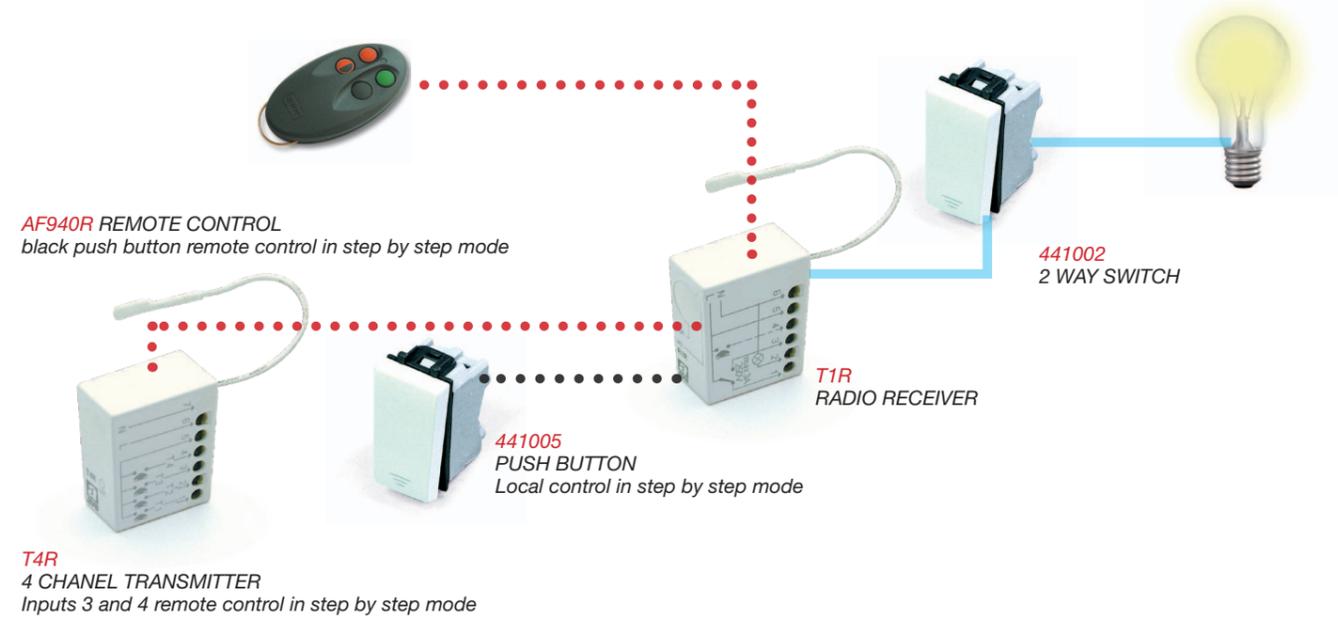
RT1R 1 channel radio receiver to control blind or curtain motor. Exit with 2 interlocked contacts

The need to insert a new control for an existing light source can be resolved using the R1R receiver. Thanks to the exit with an exchange contact free from potential, it can be installed in place of a normal 2 way switch and controlled via radio, by a AF940R remote control or by a T4R transmitter as shown in the figure. :

Installation is simple and quick in that the transmitter or receiver module can be placed inside an appropriate blank end cap of the Domus44, Life44 or Touch series and fixed on the relevant framework. As the dimensions of the devices are reduced, it is also possible to place them in junction boxes.

The execution of a control can be of step by step type or timed. The receiver has an input for local control, where you can connect a normal N.O. push button which directly controls the output contact, so that the functionality of the substituted 2 way switch is not lost

AF940R REMOTE CONTROL
black push button remote control in step by step mode

441002
2 WAY SWITCH

T1R
RADIO RECEIVER

441005
PUSH BUTTON
Local control in step by step mode

T4R
4 CHANEL TRANSMITTER
Inputs 3 and 4 remote control in step by step mode

The R1R receiver communicates with all the transmitter devices of the AVE radio range, burglar alarm systems and volumetric and perimeter detectors. This allows the replication of the alarm coming from the control panel or from a single detector to one's liking, for example on the opening of a door or the act of a person walking through a protected area.

AF926   **AF979R-DB**   **AF968R-DB**   **AF913R-DB**   **AF940R**

R1R
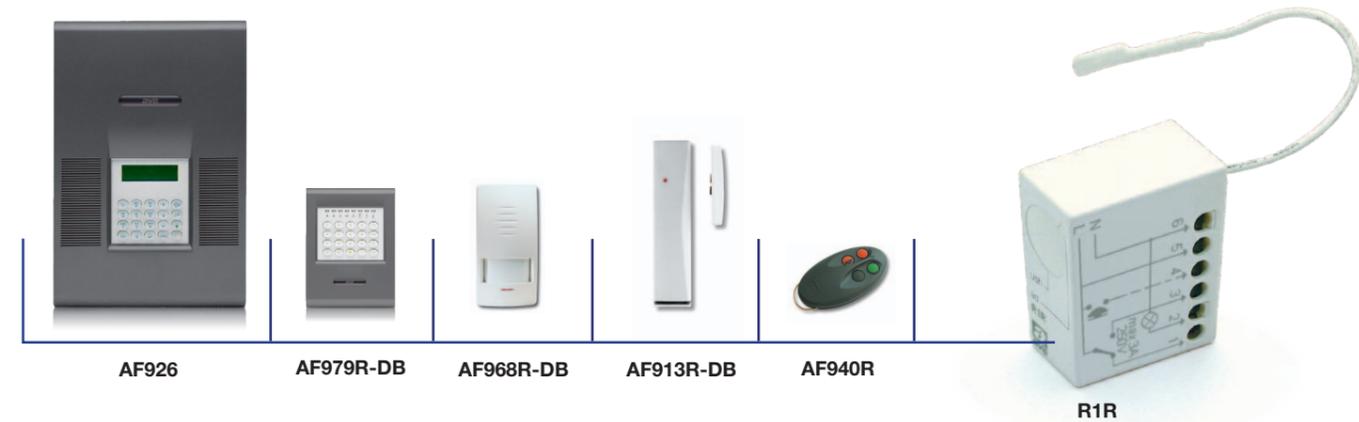
In the AF921-AF926 control panels with an incorporated telephone controller, it is also possible to call the control panel from a remote telephone and, once in line with the equipment, send an ON/OFF signal to the receiver. This allows the remote activation of electrical loads.

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The T4R transmitter has four inputs to which normal N.O. buttons can be connected to send radio commands to the R1R receiver and to RT1R receiver to control blind motors. The signals that can be sent via the 4 inputs determine the different functioning of the receivers, as follows.

| TRASMITTER T4R	RECEIVER RT1R (MOTOR CONTROL)	RECEIVER R1R (LIGHT CONTROL)
Input 1	Descend ON+OFF (contol with man present)	ON+OFF (control with man present) Push button simulation
Input 2	Ascend ON+OFF (control with man present)	ON+OFF (control with man present) Push button simulation
Input 3	Descend control in timed mode	Relay control step by step or timed mode
Input 4	Ascend control in timed mode	Relay control step by step or timed mode

It thus allows, in combination with RT1R receivers, the control of the ascent and descent of a motor in ON+OFF modality (control with man present) via inputs 1 and 2, or in a timed way via inputs 3 and 4

TX4

RT1R

1 Ascend Descend

RT1R

2 Ascend Descend
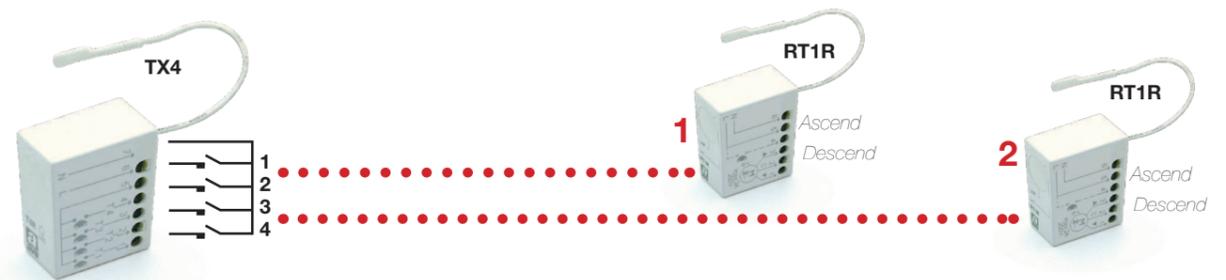
1 and 2 Control with man present
3 and 4 Timed control

In addition it allows a mixed application, motor control via inputs 1 and 2 in combination with receiver RT1R, and light control through inputs 3 and 4 in combination with receiver R1R.

TX4

RT1R

1 Ascend Descend

R1R

2

R1R

3
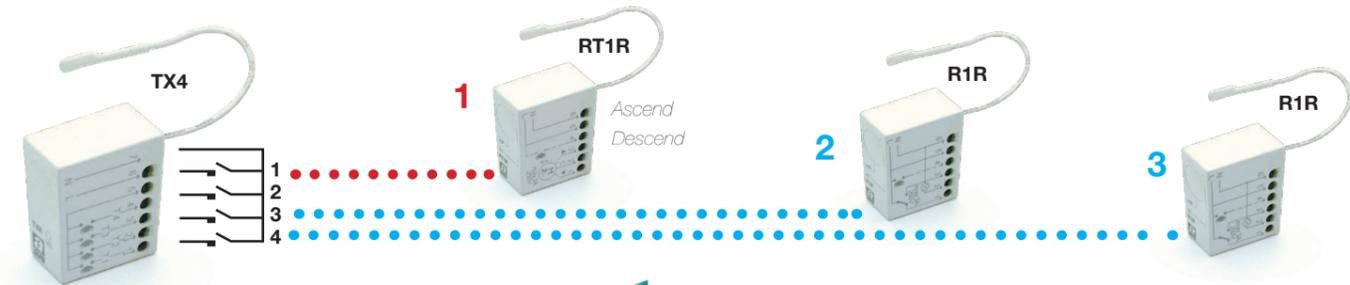
1 and 2 Control with man present
3 and 4 Step by step or timed control

Prijemik RT1R može biti kontrolisan preko daljinskog upravljača AF940R

Receiver RT1R also allows the remot e control through the AF940R remote control


RT1R

1 Ascend Descend

RT1R

2

Ascend Descend

Grey/Red and Grey push button sequential ascend/descend in timed mode

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Should it be necessary to control a certain number of motors and/or light points, it is possible to use the AF979R-DB keyboard, which in addition to controlling the burglar alarm system, also allows the control of various receivers, identifying them with a numeric code asigned in the programming phase.
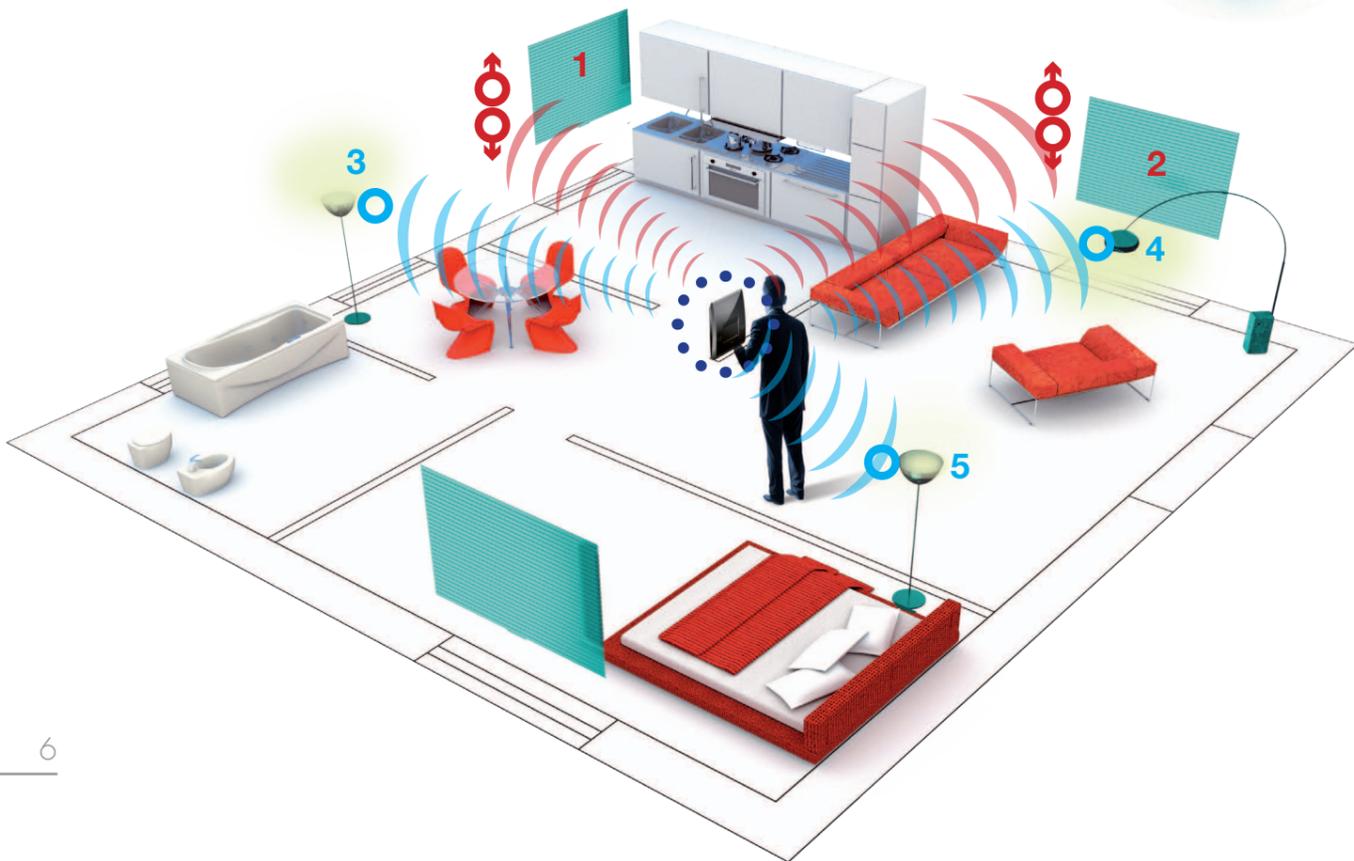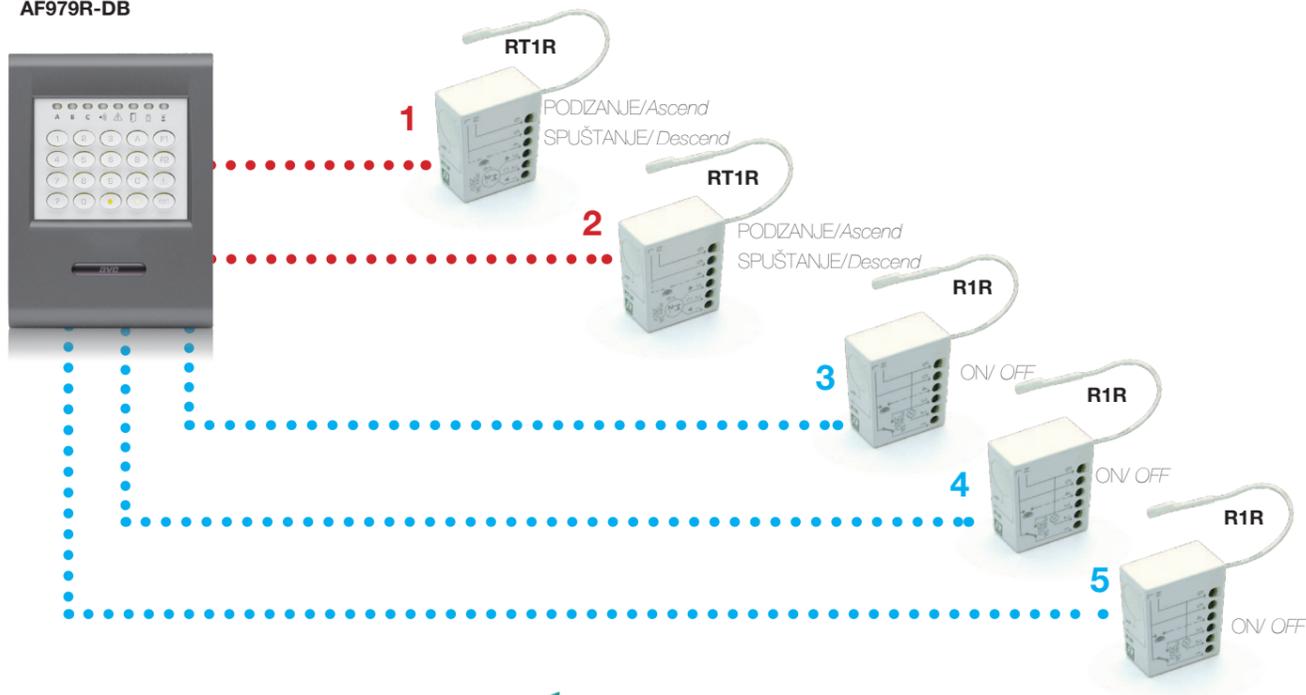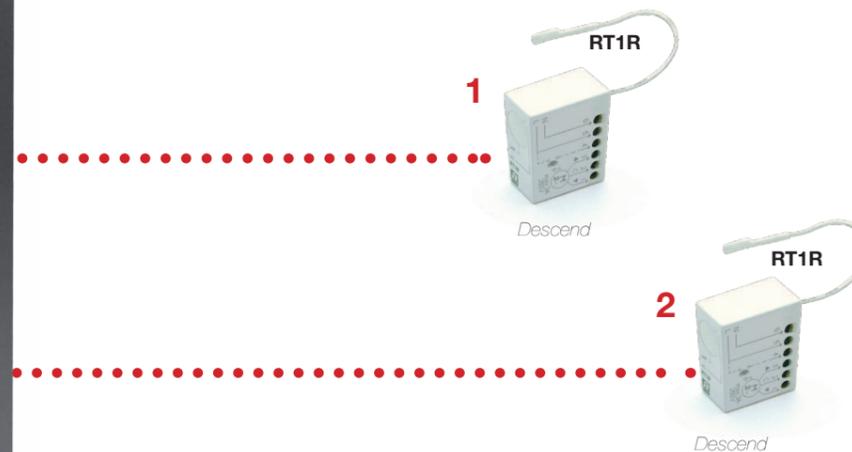
Thanks to the complete integration of the receivers with the burglar alarm radio system, it is possible to program the system to bring down the blinds when the control panel is activated, in order to be able to activate these functions in a single, simple operation.

AF979R-DB

RT1R
1 PODIZANJE/*Ascend*
SPUŠTANJE/*Descend*

RT1R
2 PODIZANJE/*Ascend*
SPUŠTANJE/*Descend*

R1R
3 ON/*OFF*

R1R
4 ON/*OFF*

R1R
5 ON/*OFF*

AF921/AF926

RT1R activates the descent command upon receiving the activated control panel command

RT1R
1
Descend

RT1R
2
Descend

6

7

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Lastly, the R1R radio receivers can be connected to transmitters of the domotic AVEbus system. By integrating the two systems in this way, it is possible to schedule the various functions on the system by wire within remote control range. The example shown in the figure shows the running of a scenario realized with Bus devices, other than from the TS02 touch screen control unit, also from the AF940R remote control.

AVEbus
441ABRT01

AVEbus
441ABR1

AVEbus
441ABRT01

Local control via Touch Screen icon

R1R

441ABIN

Remote control via TC

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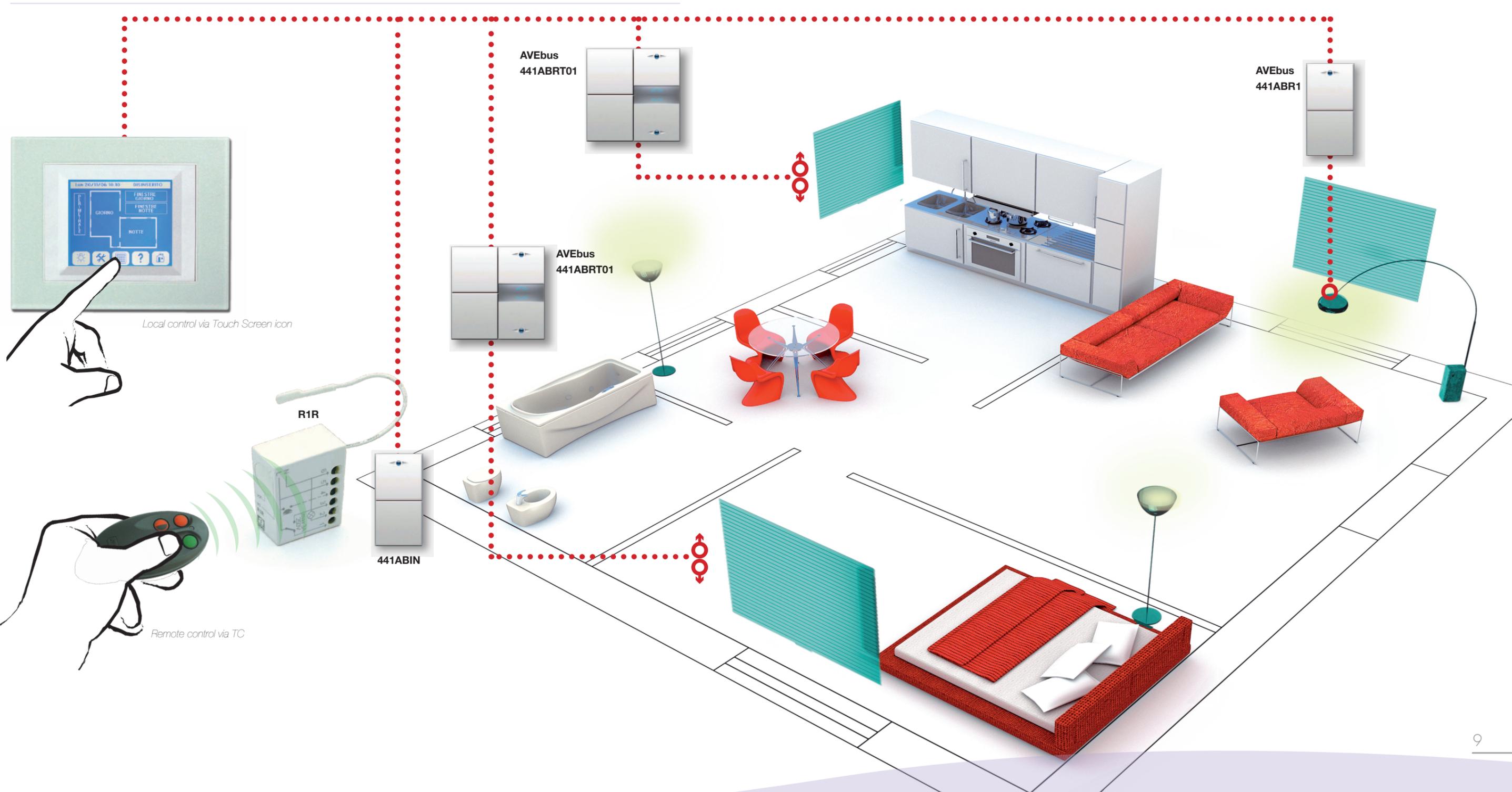
Anti-Intrusion system

Radio Control Panel	Cod.	Description

AF926

AF926 — *Radio and wired control panel with bidirectional PSTN/GSM telephone dialler incorporeted.*
- *Power supply 230Vac*
- *Consumption: 55 mA in stand-by, 125 mA with back illumination*
- *Control panel features:*
- *Transmission/Reception RF 433MHz/868MHz, 100m radio range in open air without disturbances*
- *99 channel radio – 99 detectors which can be identified individually with text on LCD display or vocally, can be delayed individually and with AND function*
- *3 insertion areas (A,B,C)*
- *Possibility to store 32 AF940R remote controls, which can be identified individually with text on LCD display or vocally*
- *Possibility to store 32 AF979R-DB keyboard codes, which can be identified individually with text on LCD display or vocally, and possibility to combine them with the three areas (A,B,C)*
- *3 types of 24h alarm: panic alarm, burglar alarm, technical alarm*
- *6 wired imputs and 3 tamper inputs (can be combined with the three areas)*
- *1 input for electronic key reader*
- *Storage of last 200 events*
- *Event messages. Possibility to register vocal messages to inform the user of the main events which have occurred in the station in real time (Control panel connected; control panel disconnected; door open; external detector alarm; pre-alarm; opening; new event)*
- *Possibility to install a loudspeaker connected via wires, to listen to the vocal messages from the station in another area.*
- *To be completed with 12V/1,8 Ah cod. AF911 battery*
- *Telephone dialler features:*
- *10 SMS messages for pre-recorded technical alarms*
- *6 SMS messages which can be defined by the user*
- *6 vocal messages which can be recorded by the user*
- *63 telephone numbers can be stored*
- *1 telephone number for SIM credit request*
- *Possibility to associate transmission of vocal messages and/or sms's to events of the central section (general or area alarm, technical alarm, burglar alarm, empty battery, etc)*
- *Message sending on both PSTN and GSM lines. Possibility to program the sending of alarm messages on the PSTN line as priority, sending on the GSM line only in absence of the PSTN line, or vice-versa*
- *Remote functioning. It is possible to call the device from a remote telephone: control two relays (R1 and R2) with C-NC-NA (1A/30Vca) contacts free from potential, n°16 R1R radio receivers, question the state of the system and the connection/disconnection of the control panel*
- *Possibility to control the R1 relay other than by remote control, also at programmable time slots in order to control electrical loads in a timed mode or to activate it in case of a general alarm, for a variable amount of time between 1 and 999 seconds.*
- *To be completed with AF911 battery.*

Cod.	Description

AF925RF

AF925RF — *Radio and wired control panel with incorporated bidirectional telephone dialler.*
- *Same features as AF926 but with only PSTN telephone dialler (this version doesen't allow the sending of alarm SMS's)*

AF924RS

AF924RS — *Radio control panel station with incorporated bidirectional telephone controller.*
- *Basic features same as AF926 but only with PSTN telephone dialler (this version envisages only the radio part and not the sending of alarm SMS's)*
- *Powered by 9V-1,2Ah batteries provided*

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Cod.	Description

AF979R-DB Bidirectional radio keyboard to combine with radio AVE stations**.**
- Power supply: N. 3 1.5V AA batteries supplied
- Functions: control panel control, panic alarm transmission, receiver control
- 8 Led's for function control
- Buzzer for acoustic signalling

AF979R-DB

AF940R Four push button remote control for radio system. It allows to control radio control panels and radio receivers.

AF940R

AF941R Four push button remote control for radio system. It allows to control radio control panels and radio receivers.
- Code change mode "Rolling Code"
- Bidirectional dialogue with control panels
- System status indication by Led

AF941R

For further information on the burglar alarm system consult the safety and security Division catalogue

Radio commands

Cod.	Description

T4R 4 channel transmitter. It allows the transmission of 4 radio commands to R1R and RT1R receivers.
- Power supply 230Vca
- Monofrequency radio transmission (433 Mhz)
- Command that can be sent to the R1R receiver:
-Input 1: ON+OFF (command with man present)
-Input 2: ON+OFF (command with man present)
-Input 3: Step by step or timed
-Input 4 : Step by step or timed
- Command that can be sent to the RT1R receiver:
-Input 1: Descend ON+OFF (command with man present)
-Input 2: Ascend ON+OFF (command with man present)
-Input 3: Descend in timed mode
-Input 4: Ascend in timed mode
- Can be installed on a DR7225 blank end cap of the Domus44, VL7204 and Life44 series or in junction box
- Dimensions: 40x18x33
- Operating temperature: from -20° to +55°
- Range: 100m in open air and 20m inside buildings

T4R

Cod.	Description

R1R 1 channel radio receiver. Thanks to the exit with a change over contact free from potential, it can be installed in place of a normal two way switch and controlled via radio. Can be used to broaden the normal light points in radio mode. Communicates with the T4R transmitter, carrying out the command received. In addition, communicates with all the transmitting devices of the AVE radio burglar alarm system range (remote controls, keyboards, detectors and control panels).
- Power supply 230Vca
- Monofrequency radio transmission (433 Mhz)
- Local control (step by step) via external button
- Programming via button on board
- Possibility to program execution of command as:
- ON+OFF (command with man present)
- Step by step
- Timed
- Can be installed on DR7225 blank end cap of the Domus44, VL7204 and Life44 series or in junction box
- Contact range: 1000W/500VA to 230Vca
- Dimensions: 40x18x33
- Operating temperature: from -20°to +55°
- Range: 100m in open air and 20m inside buildings

R1R

RT1R 1 channel radio receiver for control of blind or curtain motor. Exit with 2 interlocked contacts. Communication with the T4R transmitter following the receipt of commands. In addition, communication with all transmitter devices from the AVE radio burglar alarm system range (remote controls, keyboards, detectors and control panels).
- Power supply 230Vca
- Monofrequency radio transmission (433 Mhz)
- Local control for sequential ascend/descend activation with man present
- Programming via button on board
- Possibility to program the fulfilment of the ascend and descend command in a timed mode or in ON+OFF mode (command with man present)
- Can be installed on a DR7225 blank end cap of the Domus44, VL7204 and Life44 series or in junction box
- Contact range: 1000W/500VA to 230Vca
- Dimensions: 40x18x33
- Operating temperature: from -20° to +55°
- Range: 100m in open air and 20m inside buildings

RT1R

All products of the radio range comply with the essential requirements and with the other provisions of the 1999/5/CE. Directive

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Other Domina Plus devices

Cod.	Description
BSA-USB	AVEbus-USB interface (supplied with SFW-BSA software)
PRAB01	Programmer for AVEbus devices.

BSA-USB

Cod.	Description
53BSA	AVEbus stabilized power supply unit input 230V ac 50Hz- output 13,8 Vdc 150mA Possible parallel connection with another 53BSA.
CAVEBUS	Cable for AVEbus system. It allows the connection of all AVEbus devices. It is composed of two twisted pairs (0,50 mm²) for auxiliary power supply (V.Aux) and Bus line connection. 100m coil
AF53892B	Stabilized power supply for burglar alarm control and AVEbus system. Adjustable output voltage through a potentiometer 12 to 18 Vdc. Maximum current supplied: 1A.

53BSA

CAVEBUS

Cod.	Description
ABR01	1 channel actuator for flush mounted - 2A resistive and incandescent light,2A cosφ=0.6
ABIN02	2 channel binary input for flush mounted boxes
ABRTM	Heating actuator for flush mounted boxes, 2A resistive

ABR01

Cod.	Description
53ABR4	4-Channel receiver - 8A resistive and incandescent lamp - 4A cosφ 0,6 - 4 DIN modules
53DIM010	Dimmer for incandescent and halogen lamps, toroidal and laminated transformers from 40 to 500W 230Vac 50Hz - Regulation occurs in two ways, using a potentiometer 10kΩ (not supplied) or with a 0÷10Vcc signal from the 441ABDI Domina actuator - 2 DIN modules
53ABISO	Line coupler: connect different AVEbus lines or areas. The lines/areas are elecrically isolated from each other

53ABR4

Cod.	Description
442ABT1	I channel transmitter - 1 module
442ABT2	2 channel transmitter - 2 modules
441ELA01	Key one function for transmitters - 1 module
441ELA02	Key two functions for transmitters - 1 module
441ABIN	2 channel binary input - 1 module
441ABTA	1 channel transmitter for alarm signals - 1 module
441ABR1	1 channel actuator - 10A resistive - 4A incandescent lights - 4A COSφ 0,6 - 1 module
441ABR1CL	1 channel actuator with local command - 10A resistive - 4A incandescent lights 4A COSφ 0,6 - 2 modules
441ABR2	2 channel actuator - 10A resistive - 4A incandescent lights - 4A COSφ 0,6 - 2 modules
441ABDI	Dimmer actuator. To actuate "dimmer" commands received by transmitters. It can control any light regulator based on the 1-10V standard - 10A resistive - 2 modules
441ABRT01	Actuator for shutter motor control with local control. It has two relays with interlocked contacts - 10A resistive - 2 modules
441AB68	Passive infrared detector LUCE AMICA with light sensor - 1 module • Max range 12m • Light sensor adjusting 1÷100 Lx
441ABRTM01	Heating actuator - 10A resistive - 1 module
441ABTM03	Thermostat with display - 2 modules • Stand-alone or centralized mode (with touch screen TS02) • Heating and cooling modes
441TT	Tutondo modules adaptor
441SO	Prominent blank insert for installation of various probe types (temperature, humidity, etc.) - 1 mod

441ABDI   **441ABIN**

441ABRCL

441ABR2

441ABRT01

441ELA01 441ELA02

441ABTM03

441TT   **441SO**