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+39.02.3480708

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HB4572SB	45	138	172
HC4575	47	152	161-173
HC4575SB	47	138	160-172
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MY HOME GENERAL FEATURES

MY HOME

The home as you want it

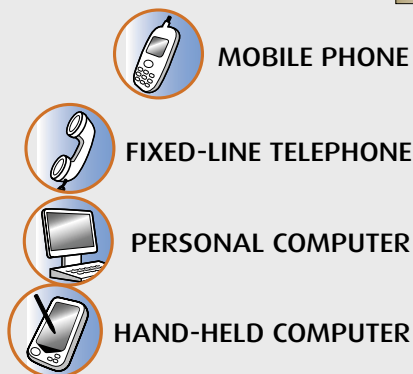
MY HOME is a home automation system which offers state-of-the-art solutions, which are in increasing demand in the home and in the service sector. It offers all the house-automation functions and applications concerning comfort, safety, energy saving, communication and control.

A common feature of all the MY HOME devices is that they use the same system technology, based on the digital bus, so that the various system components can be combined as the customer chooses and requires.



MY HOME WEB

- Services to control and manage the home at a distance



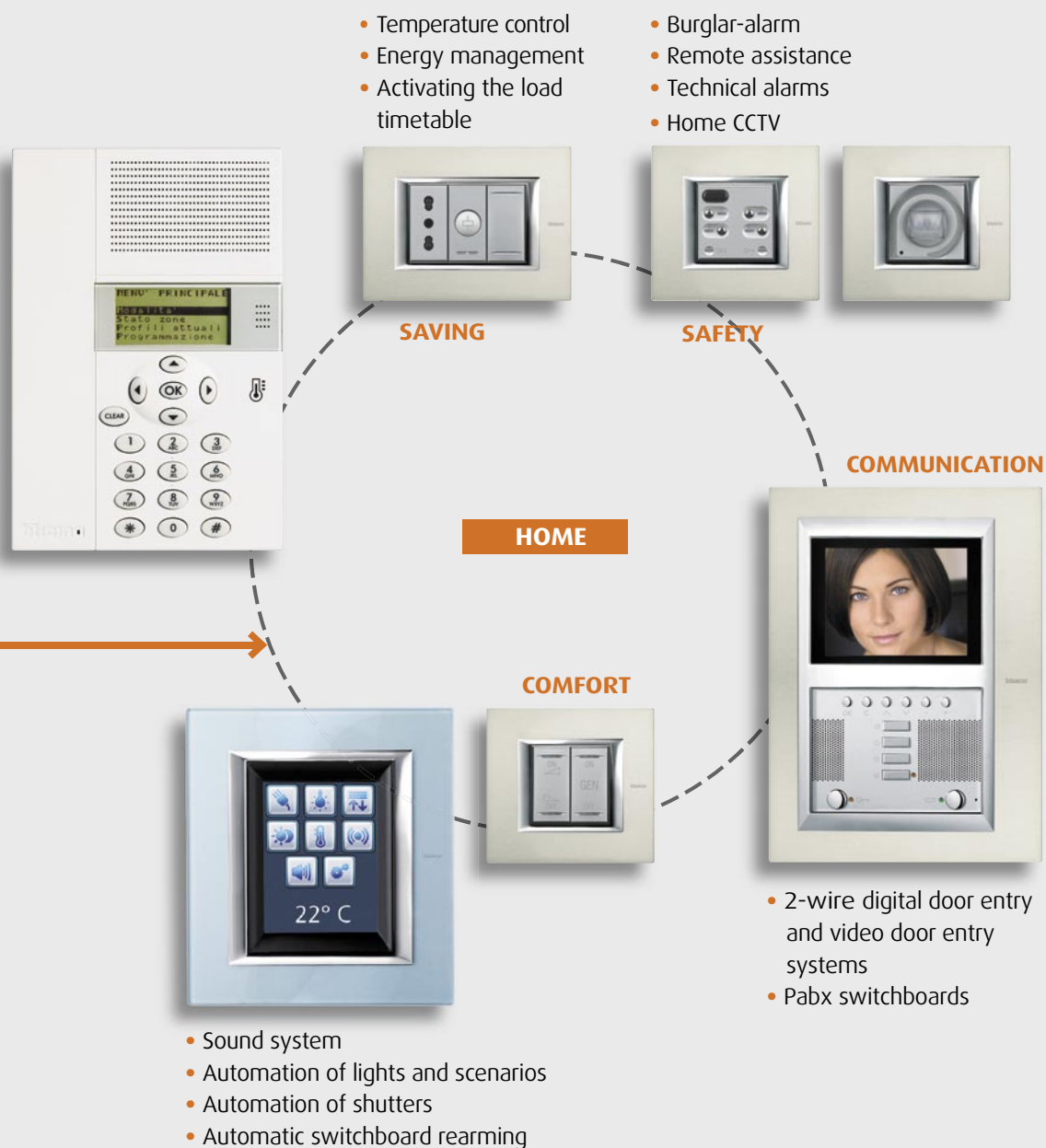
CONTROL

- Web server (audio/video and GSM)
- Burglar-alarm control unit with Dialling device
- Telephone switchboard
- GSM



The installation modularity and functional integration of the various devices also allows optimisation of costs, as the user can select which applications he wants to adopt now and which he will choose in the future.

MYHOME can, moreover, communicate with the outside world by means of special devices which interact with the home through fixed-line telephones and mobile phones and/or any Personal Computer via local network or Internet.



MY HOME

The home as you want it

Today, the MY HOME system is also available in AXOLUTE styles and can cover all the domotic solutions associated with comfort, security, saving, communication and control. Furthermore, with AXOLUTE, advanced devices such as the colour Touch Screen, the Videodisplay and the Videostation, add images to the control, thus providing the user with a simpler and more intuitive interface. The Bus technology and the configuration of the products have not changed and are common to all systems achieved so far with the LIVING, LIGHT and LIGHT TECH styles.



Totally free to choose the control

MY HOME brings you the maximum choice in selecting the control, thus enabling you to manage your own

■ BASIC CONTROL

Enabling and adjusting a single function with:

- standard controls
- infrared controls
- touch controls

domotic system; from simple controls to controls for rooms, scenarios and local and remote monitoring.

■ ROOM CONTROL

Colour Touch Screen:

- customizable icons
- control of all functions of a single room



Standard control



Touch control



Infrared control with Burglar alarm detector



Colour Touch Screen

LIGHT



LIGHT TECH



AXOLUTE



■ MONITORING CONTROL

- control of all system functions
- many customization possibilities
- simple and intuitive interface thanks to the use of sounds and images via the VIDEO STATION and VIDEO DISPLAY



VIDEO DISPLAY



VIDEO STATION

■ SCENARIO CONTROL

The scenarios, complete with all the MY HOME functions, are stored in the scenario module and can be selected from different devices, depending on the user's needs.



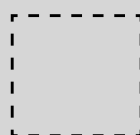
Touch Screen



Scenario control



Scenario module



Other devices



Standard control

The possible functions

SAFETY



BURGLAR-ALARM CONTROL UNIT

You can monitor the whole house or just one particular room.



GAS-STOP DETECTOR

Just a small leak and the solenoid valve stops the gas escaping.

COMFORT - AUTOMATION



TOUCHSCREEN

Just one room command for several MY HOME functions.



MOTORISED ROLLING SHUTTERS

When you wake up you can control the movement of one or more rolling shutters to give more light in the home effortlessly.



COMFORT - SOUND SYSTEM



SOUND SYSTEM AMPLIFIER

With a simple movement you can switch the radio on from anywhere in the home and listen to your favourite programme.



SAVING - TEMPERATURE CONTROL



TEMPERATURE PROBE

You can set different temperatures for each room and for every hour of the day. With savings up to 30%.



SAVING - ENERGY MANAGEMENT



SOCKET WITH ACTUATOR

To disconnect the less important loads and avoid a blackout because of an overload.



COMMUNICATION



MINIATURISED CAMERAS

A friendly eye in each room lets you check the whole house.



TELEPHONE WITH VIDEO SECTION

In each device you will find all the communication you need with the interphone, video door entry and telephone functions.



CONTROL



WEB SERVER

By means of the computer you can control and activate your home even when you are away.



MY HOME WEB

My Home Web is the complete range of services which allow the user to manage and control remotely all the My Home functions of the home at any time and with different means of communication, such as a computer connected to the Internet, a hand-held computer or a telephone (fixed-line or mobile).

WHAT MY HOME WEB CAN DO

The following functions can be activated with a simple telephone or by connecting to the reserved area of the Internet MY HOME portal:

Controls: to manage the lighting, heating, electrical appliances, power and all the automatic devices in the home.

Scenarios: to simultaneously activate several predefined commands such as, for example, opening the gate and switching on the driveway lights at the same time, with just one action. A scenario saved in the system can be activated by means of a scenario unit and Web house-automation scenarios. The Web house-automation scenarios are scenarios programmed in the Web pages of the MY HOME portal.

Alarms: when there is a dangerous event, the house contacts the telephone numbers and programmed addresses with a telephone call, an SMS and an e-mail with audio/video attached and automatically activates by responding to the preset actions (e.g. the automatic switching on of all the lights in the home).

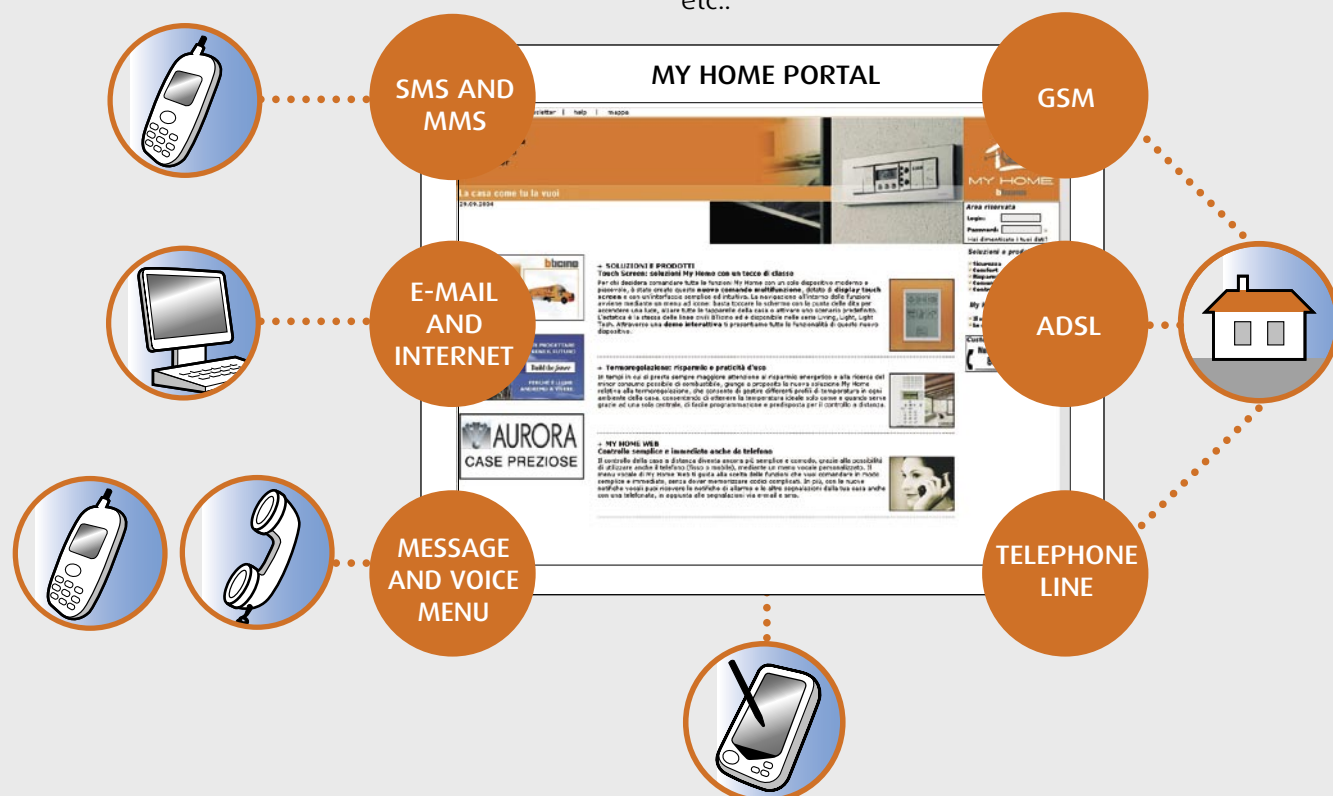
Planning: with a single order one can manage the watering or temperature control or simulate the presence of the user in the home. It will be possible to determine the actions that the house shall automatically perform during the days, hours and for the time periods chosen.

Archives: MY HOME Web records all the actions and events which have occurred in the home and makes them available for consultation by the user.

Images: to see the rooms of the house taken by the cameras in real time.

Answering machine: an event such as a door-entry call can be notified to the user by sending SMS or e-mail messages with an audio/video attachment. The signal can also be consulted by entering the reserved area of the My Home portal.

Check: the state of the home functions can be managed to find out, for example, whether the intrusion system is switched on, the lights are on etc..



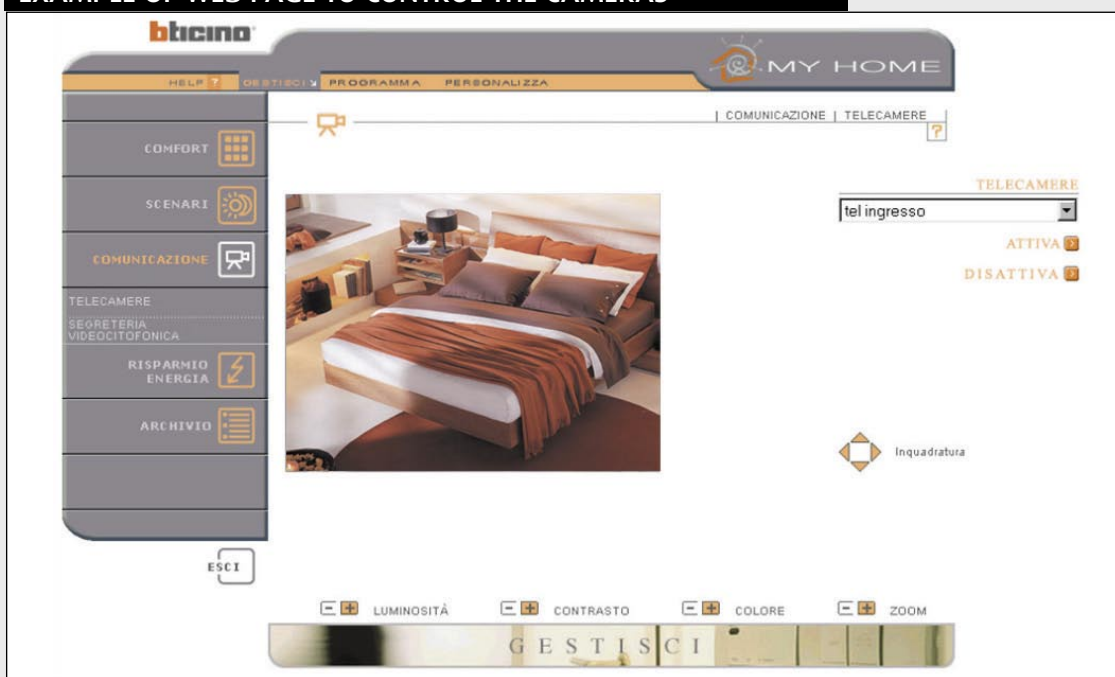
MY HOME WEB

The advantages

MY HOME WEB can check all the house-automation functions simply, customisable and conveniently. Simple because the user does not have to remember special passwords to access the service via telephone or computer. Customisable because the user can arrange schedules, WEB domotic scenarios as well as the answering machine introduction message. Convenient because thanks to the MY HOME Portal the services can be used with different means of communication such as a computer and fixed and mobile phones, regardless of the type of device used.

Devices such as the telephone actuator, the burglar alarm unit with an integrated dialling device and the telephone dialling device specifically designed for being managed via the telephone line can also be, with MY HOME WEB, controlled with a PC connected to the Internet or with voice commands and SMS's. The MY HOME Web installer can benefit from the advantages offered because, when the customer requests, he can modify the programming, the system parameters and make diagnosis and maintenance remotely.

EXAMPLE OF WEB PAGE TO CONTROL THE CAMERAS

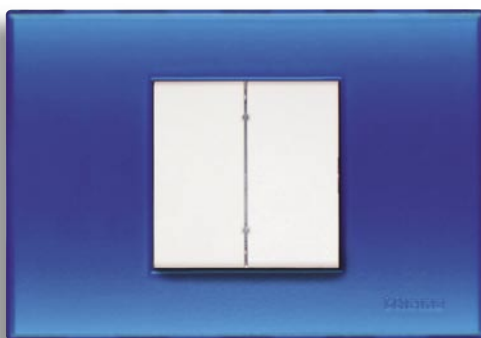


MY HOME AUTOMATION

THE NEWS



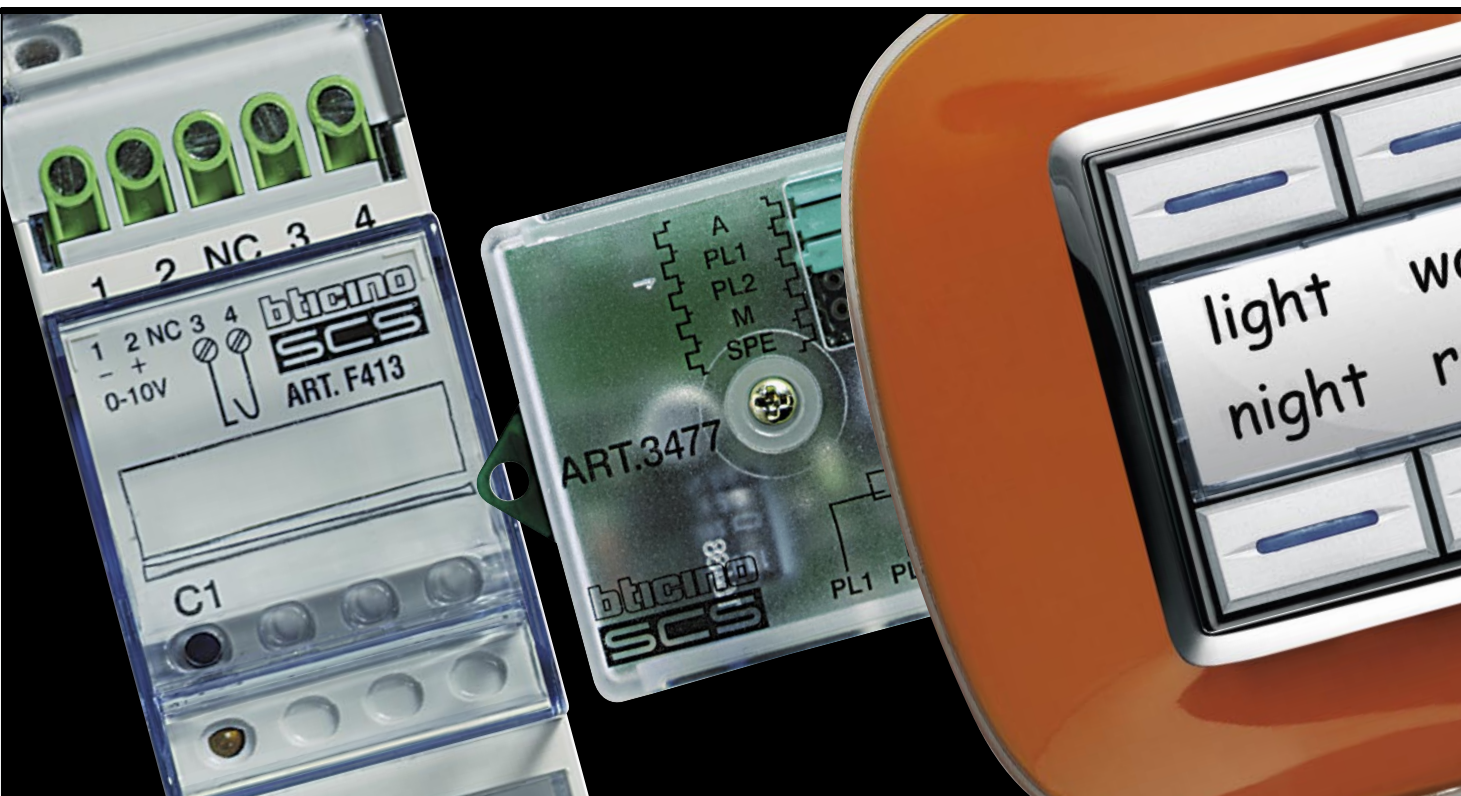
Radio remote
control



Flat radio control



Colour Touch Screen



SECTION CONTENTS

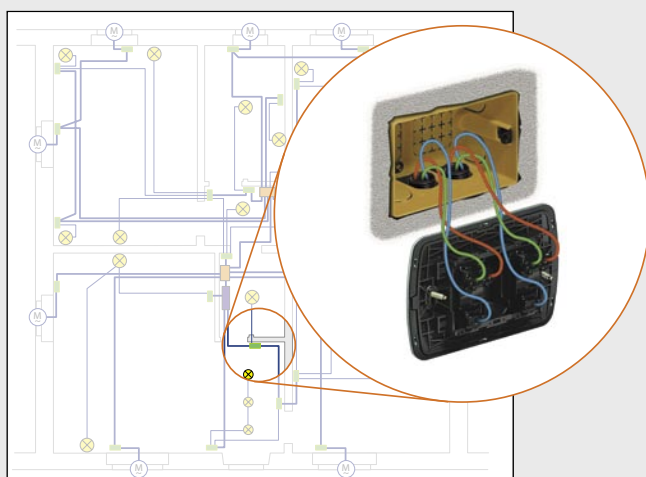
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General features

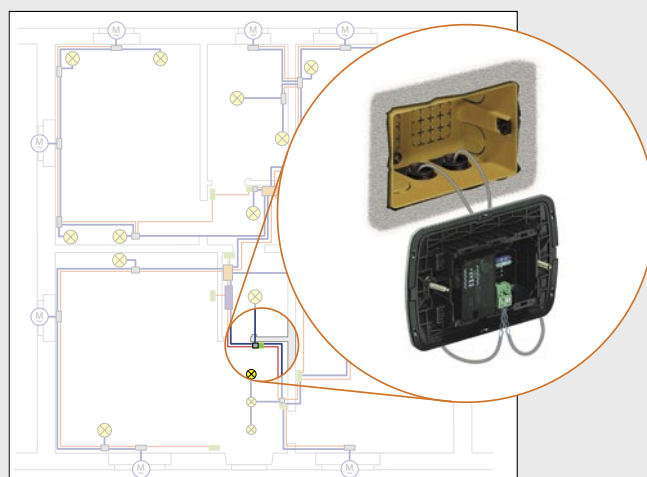
Electrical systems have been considerably changing throughout the years due to the need for higher automation and integration of different systems for achieving comfort and home protection. Electric curtains and shutters, dimming lights, fan-coils for heating and cooling and burglar alarm systems with cameras are examples of technological systems increasingly used in our homes which need to work in synergy to fully meet the user's requirements. All this involves the implementation of electrical systems with high flexibility features, which can be easily configured and expanded according to the different

and various needs of the user.

A traditional system designed to perform all the above functions is inevitably characterised by high circuitry complexity and designed to manage a single function without any possibility of modification or integration with other systems. The solution to the above-mentioned limitations consists of a digital bus technology which uses "intelligent" devices able to communicate with each other, connected to a "BUS" telephone pair for supplying electric power to the whole system as well as conveying information.



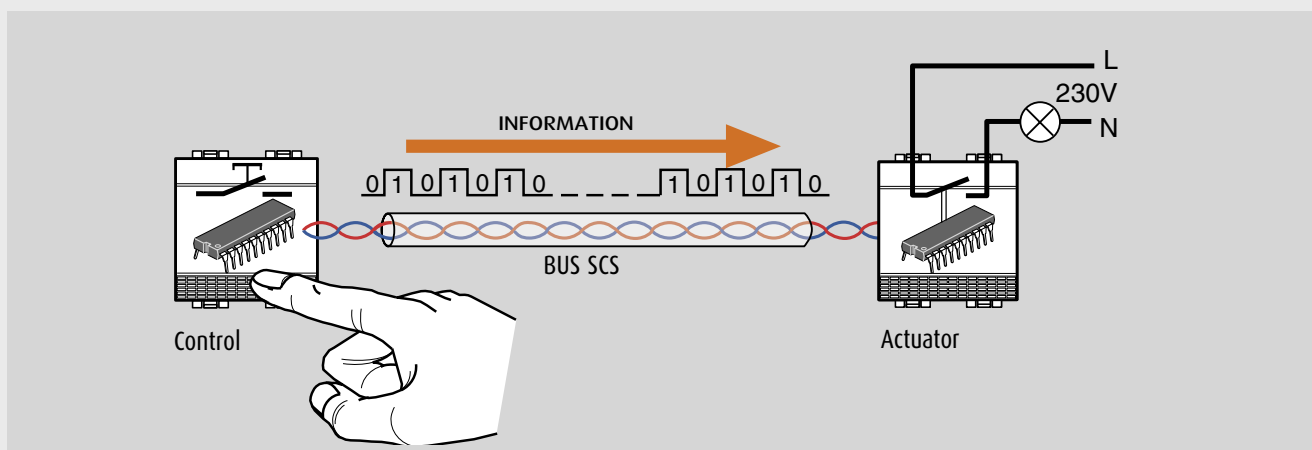
Wiring with traditional devices



Wiring with BUS devices

As for the user interface, BUS devices are not different from traditional devices; as a matter of fact, to switch on a light, you will always have to use a button

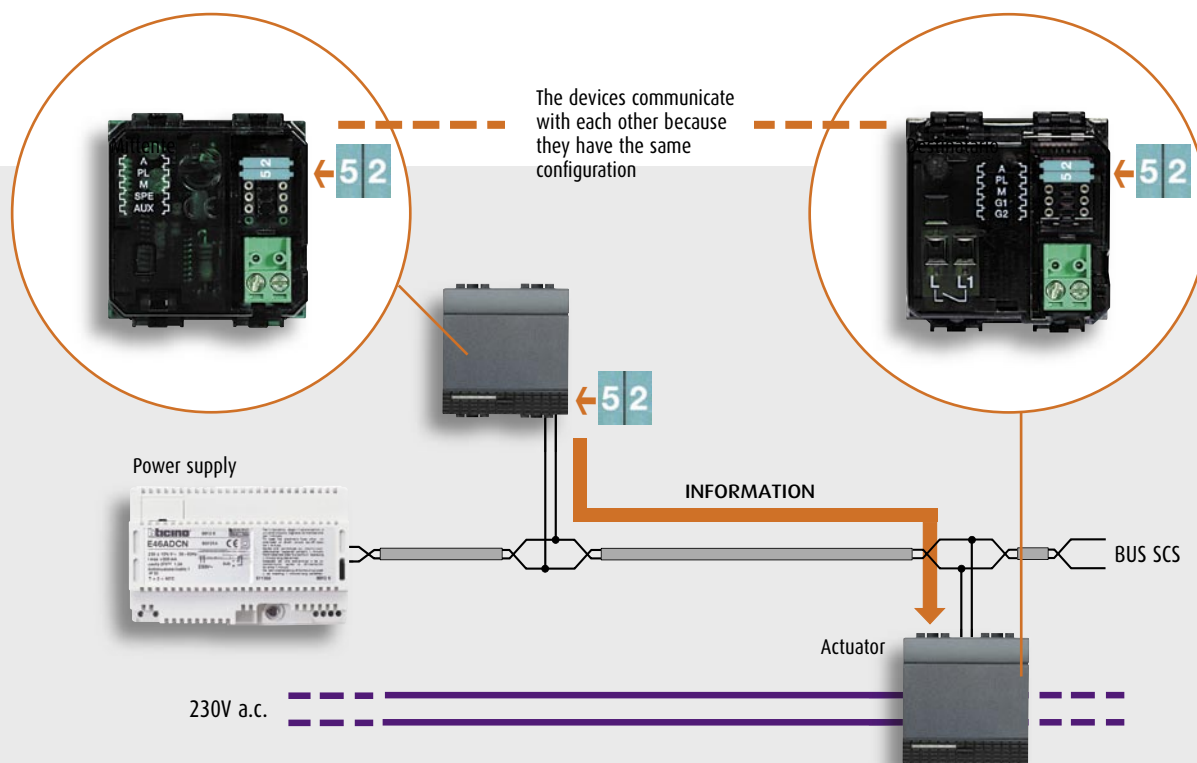
which, in this case, will activate a control device to send the digital signal to its lamp control actuator.



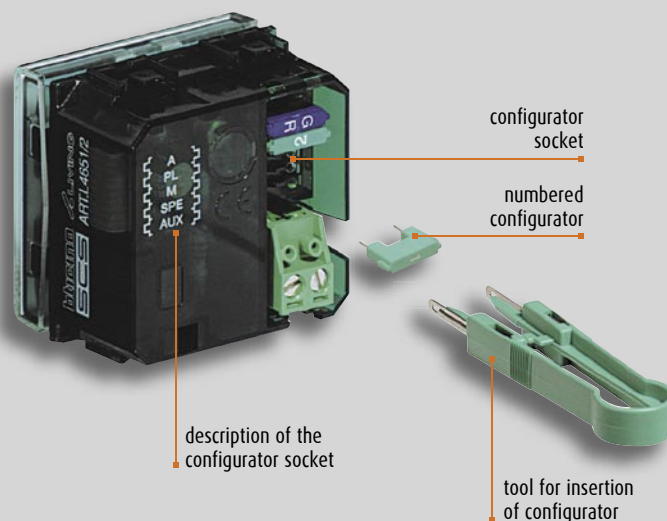
■ DEVICE CONFIGURATION

In order for each BUS system device to perform its functions properly, it must be appropriately configured, thus assigning its functioning mode and ID. This procedure, called **configuration**, is carried out by inserting push-in devices, called **configurators**, which can be distinguished by their number, letter or

graphic label printed on their body. The **destination address** or source address of the command as well as the **operating mode** of the device (activation/deactivation or adjustment of a load) shall be assigned with the configuration inside the system.



The configuration is carried out by inserting push-in components, called **configurators**, in special housings inside the devices. These can be distinguished by number, graphic label and colour. For more information, please refer to chapter "Configuration".



Automation

The MY HOME Automation system, available in AXOLUTE, LIVING, LIGHT and LIGHT Tech styles, allows you to manage functions in a simultaneous and integrated way. To date, these functions have been performed with special and complex electrical devices such as:

- lighting control
- control for shutters and/or electric curtains, fans, exhausters, etc.

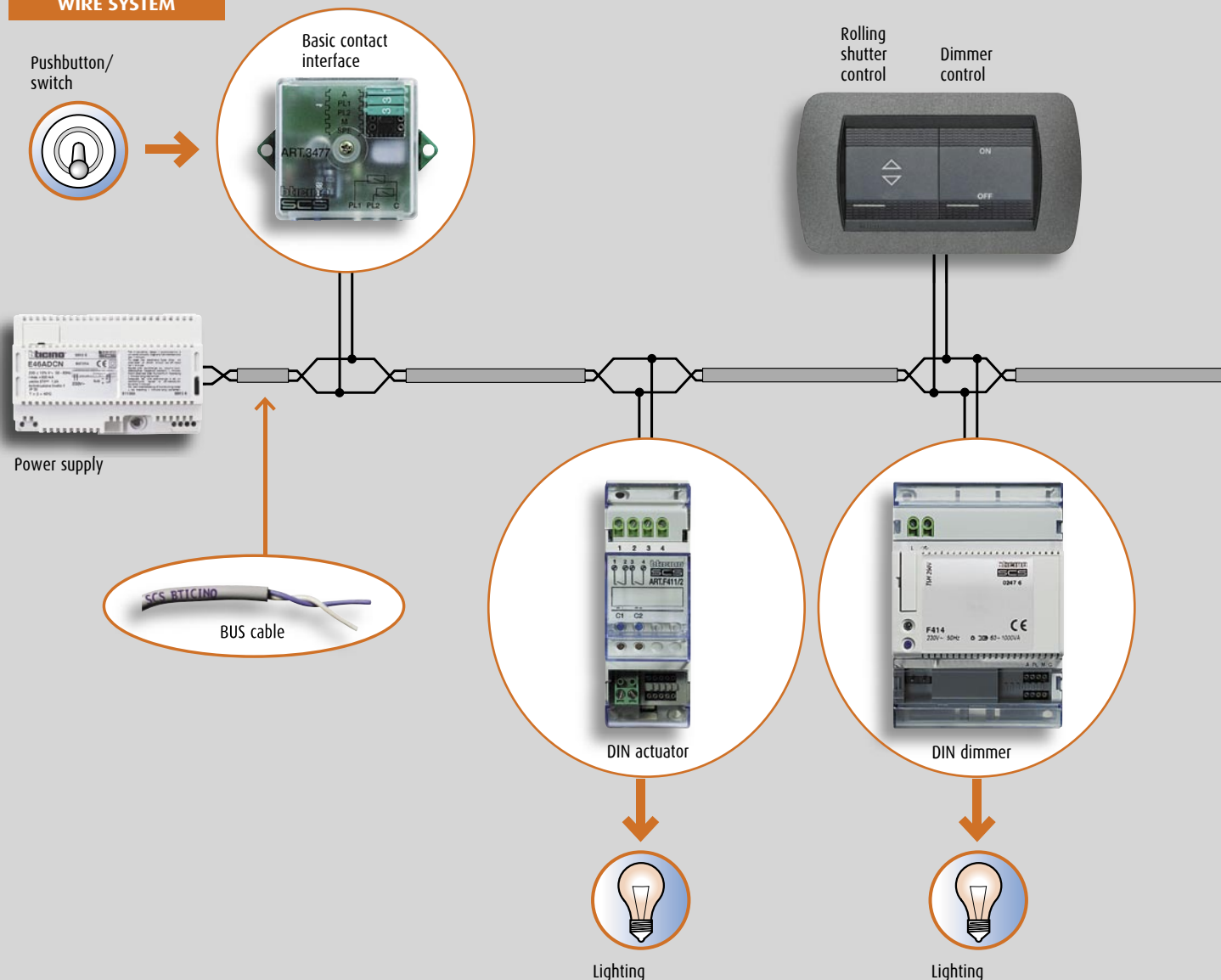
Compared to the devices of a conventional electrical system, Automation devices have an electronic circuit with a programmable logic and are connected in parallel with a 2-conductor BUS cable for sending

information and with low voltage (27V d.c.) electric power. There are two types of devices in the system:

- **controls**, connected only to the BUS cable;
- **actuators**, connected both to the BUS cable and to the 230V a.c. power line for managing the connected load.

If it is not possible to achieve a BUS system or if you want to expand a pre-existing system without any masonry work, the Automation system can be expanded with special wire/radio interfaces, control and radio devices characterised by high installation flexibility.

WIRE SYSTEM



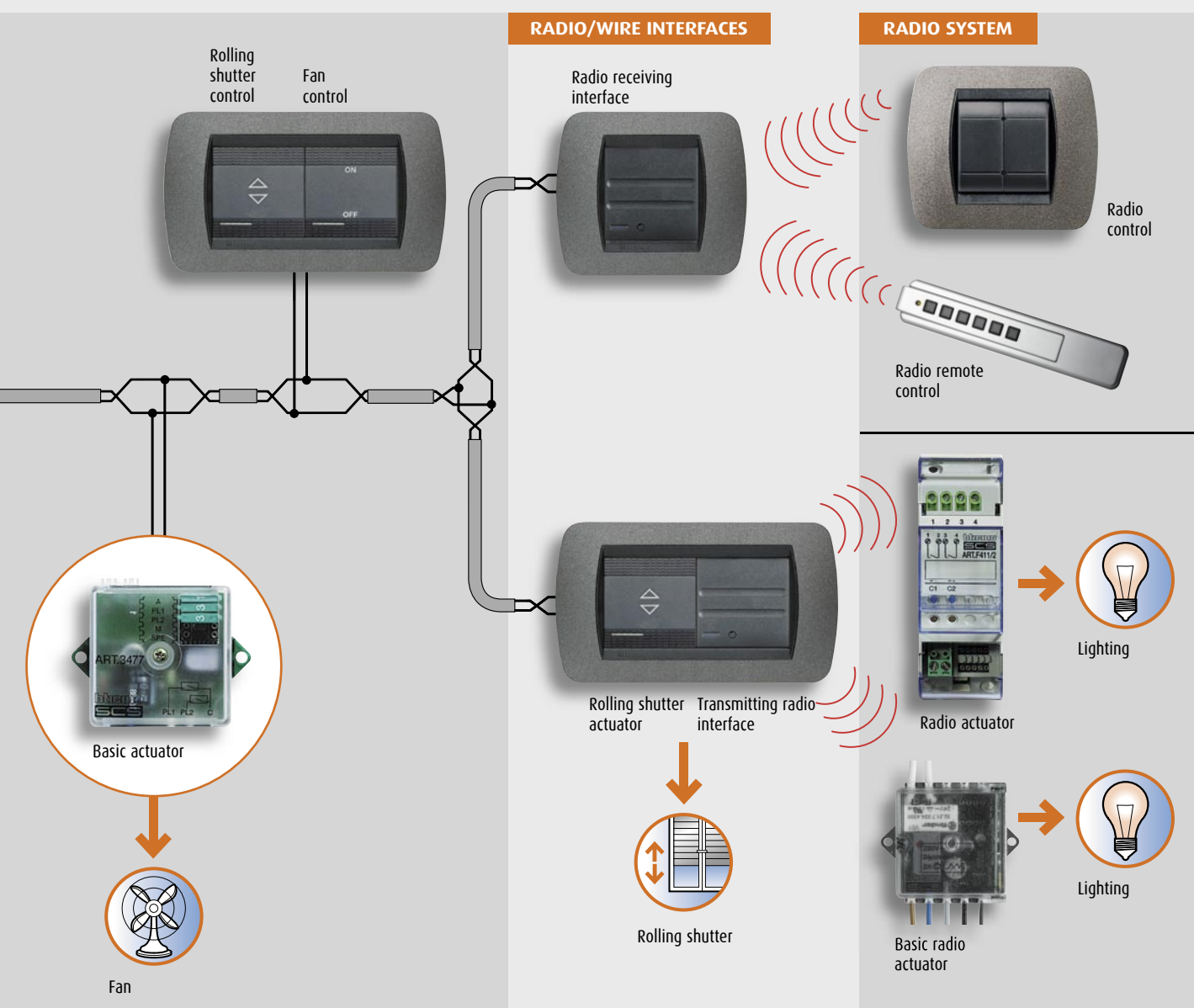
When the Automation system devices are configured properly, it is possible to manage the load as follows:

- control for a single load (lamp, rolling shutter, etc.);
- control for one or more load groups (for example, only the shutters on the first floor, north side, etc.);
- simultaneous management of all loads (for example, general deactivation of all lamps in the house and/or closing of all rolling shutters).

It is also possible to carry out special functions - which can hardly be achieved with conventional electrical systems. These functions are called scenarios, which consist of a set of simultaneous

commands used for arranging the environment according to the user's lifestyle.

An example of a **scenario** can be represented by the simultaneous activation of lights, shutters, etc., which can be set by the user after getting home by using one single control device or by using the Touch Screen menu. If the Automation system is integrated with the 2-wire Sound system and Temperature control system, the scenario can also set up an environment with background music and with the required temperature.



Automation

■ TYPE OF SYSTEMS AND DEVICES

Most devices of the Automation system are installed with the same procedures used for conventional electrical system devices, namely:

- flush-mounted in device-holder boxes;
- in switchboards on DIN rail.

Some devices are installed with different procedures; for example radio control devices are installed on wall surfaces whereas basic module actuators can be installed inside the load to be controlled. When choosing the type of system - whether it is of the wire, radio or mixed type - it is necessary to take into consideration both installation requirements and installation features of the devices.

■ WIRE SYSTEM

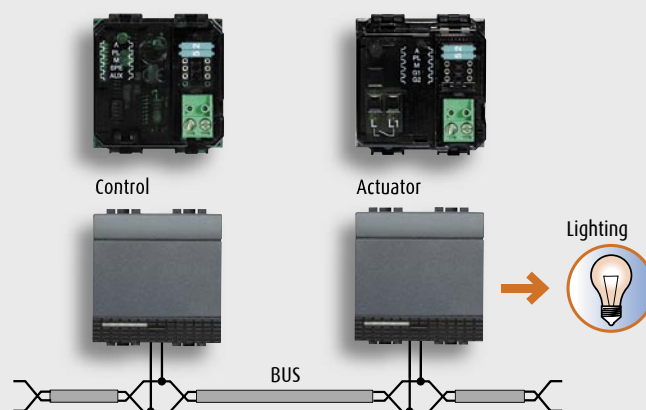
Wire-system devices communicate with each other through a two-conductor BUS cable.

The range includes devices for basic functions such as controls and actuators as well as devices for advanced functions such as the scenario control, the IR remote control receiver and the Touch Screen.

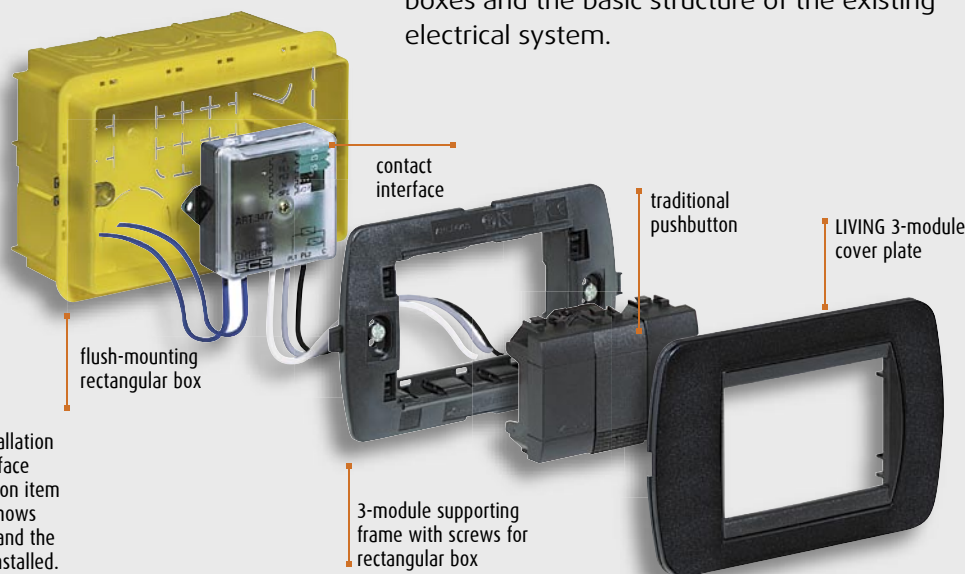
The installation of the devices can be carried out as follows:

- flush-mounted with common AXOLUTE, LIVING, LIGHT and LIGHT TECH boxes and supporting frames;
- in DIN switchboards.
- inside the load to be controlled.

An interesting variation of the flush-mounting installation is represented by the Basic modularity devices, characterised by their reduced dimensions, installation in device-holder boxes located behind



traditional devices (switches or buttons) or shallow electronic devices (controls or detectors). Hence, traditional electric systems can be easily transformed into domotic systems, thus using flush mounting boxes and the basic structure of the existing electrical system.



Example of a flush mounting installation of the Basic module contact interface item 3477, with a traditional button item L4005, in 503E box. The picture shows the correct position of the items and the sequence whereby they can be installed.

The new radio controls have won the "Award 2006" in the category "Friendly product" at the Fiera Sicurezza (Security Fair) 2006



RADIO

In this system, the communication between the control devices and the actuators occurs through radio waves. Control devices that obviously do not require cabling are available in the following versions:

- with thin profile for surface installation set up with a supporting frame for AXOLUTE, LIVING, LIGHT and LIGHT TECH cover plates;
- with a six-button programmable remote control;
- flush-mounted with supporting frame and AXOLUTE, LIVING, LIGHT and LIGHT Tech. cover plates.

Conversely, the actuators are connected to the 230V a.c. power mains for controlling the load; these are

available in the following versions:

- flush-mounted with 2 modules for the installation of AXOLUTE, LIVING, LIGHT and LIGHT TECH key covers and cover plates;
- with DIN modularity for switchboard installations;
- removable (mobile) for installation in existing sockets.

Radio automation allows you to achieve standard "stand alone" domotic functions, which are particularly useful when it is necessary to control, for example, shutters or a lighting condition with a simple system without heavy masonry work.

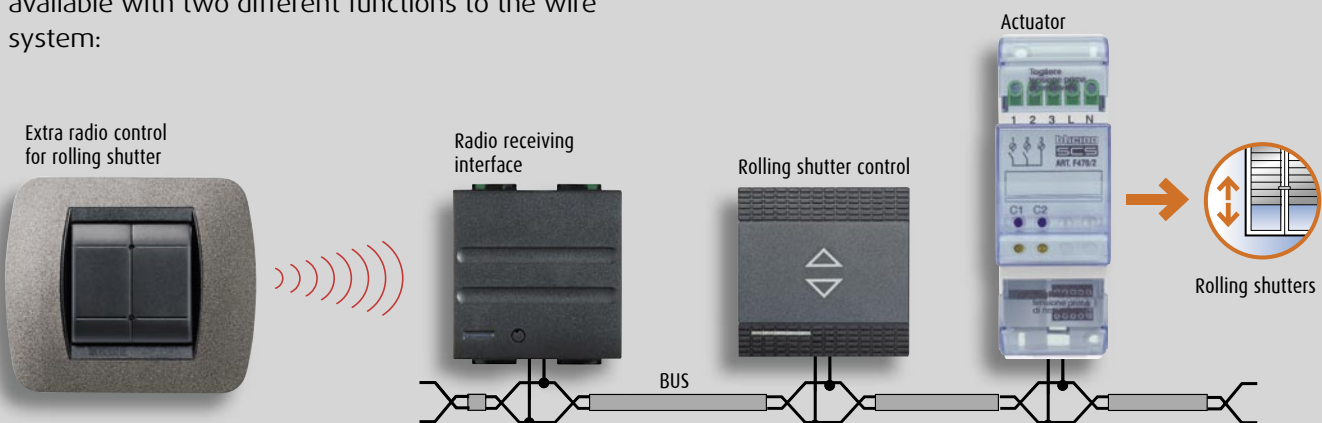


MIXED RADIO/WIRE

The advantages given by the installation flexibility of the radio devices can be used for expanding a wire system in environments that are not set up for BUS cabling.

This can be achieved by connecting interfaces available with two different functions to the wire system:

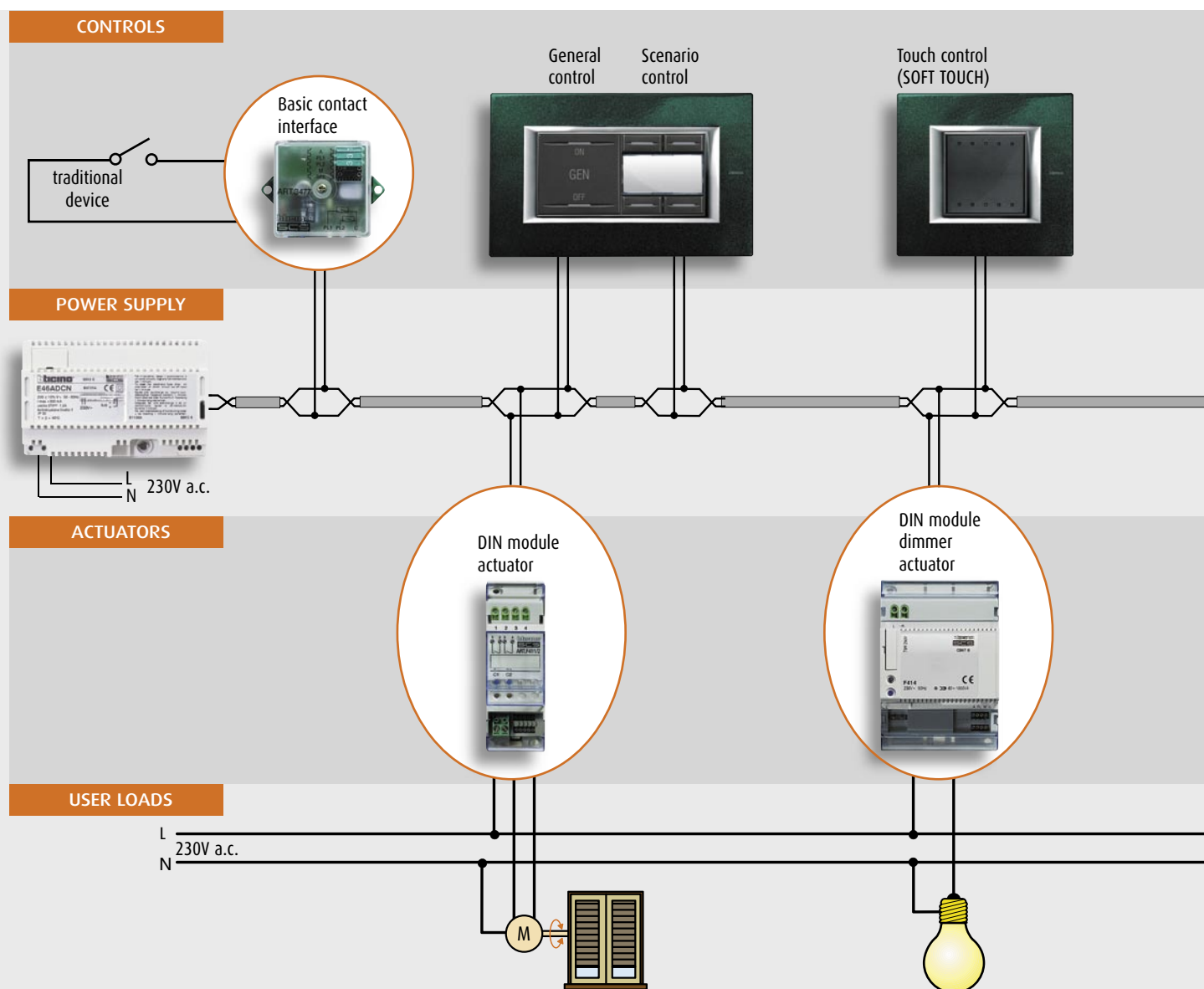
- a receiving interface to control any actuator of the wire system via a radio control (remote control or flat control);
- a transmitting interface for controlling any radio actuator via a wire system control.



Wire automation

The basic system includes control and actuating devices for flush mounting installations and installations in DIN switchboards. Control devices basically replace traditional devices such as switches, two-way switches and buttons but they can also execute more complex functions such as activating scenarios or adjusting the brightness of a lamp;

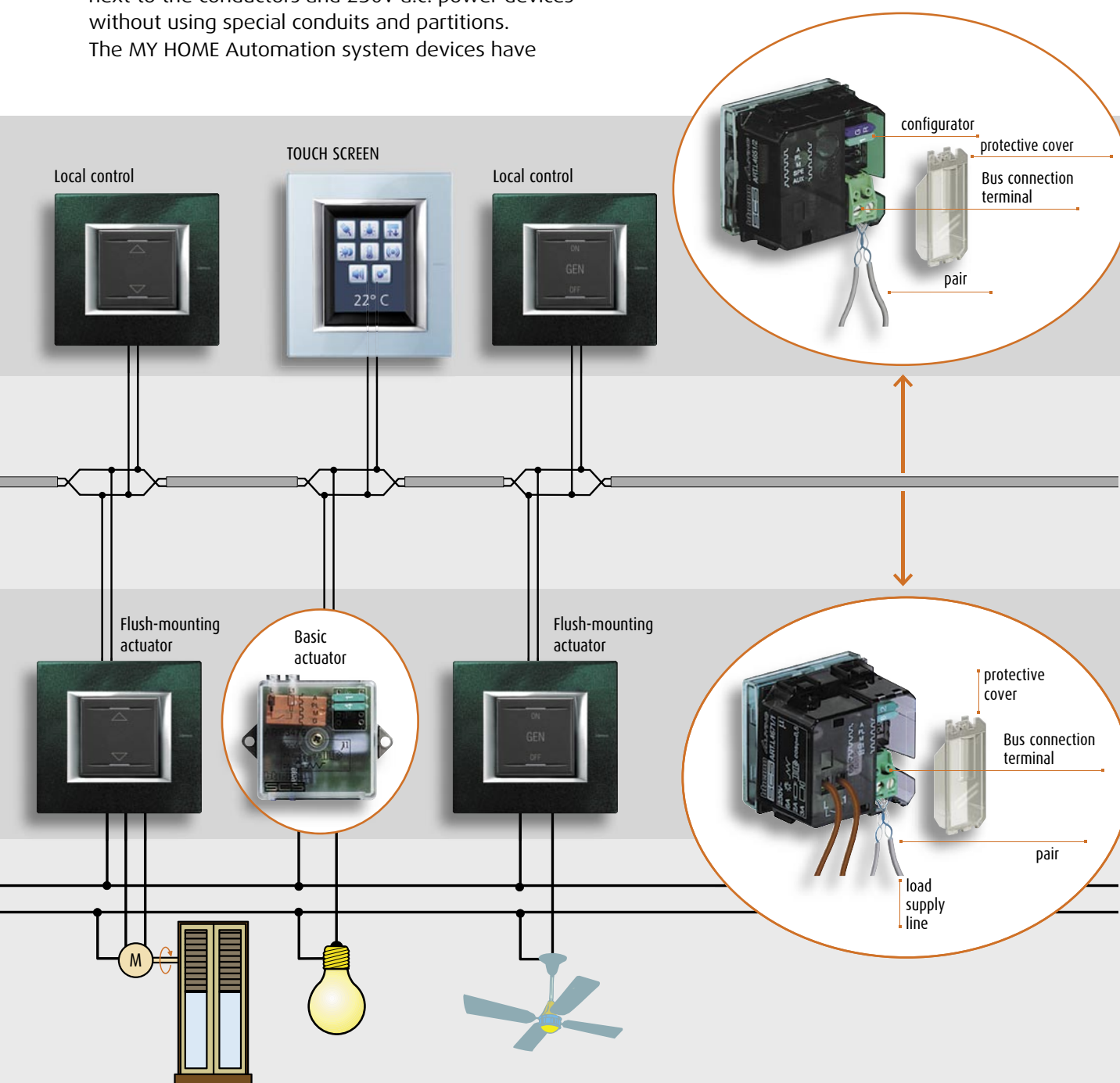
instead, actuators are devices which, as with traditional relays, operate the connected load after giving a specific command; hence, apart from being connected to the cable used for the BUS, they are also connected to the 230V a.c. power line.





All system devices are connected in parallel with removable terminals at the BUS cable, sheathed type, unshielded and unpolarised, item L4669 and L4669/500. The use of this cable with a 300/500V insulation and a segregation of the equipment terminals with its own protection cover, allow the installation of the BUS line as well as all the devices next to the conductors and 230V a.c. power devices without using special conduits and partitions. The MY HOME Automation system devices have

received the IMQ certification as they are fully in compliance with the product standard **CEI EN 50428** "non-automatic control devices for fixed electrical home installations (and similar uses)". For more information on trademarked products, please refer to section "Specifications".



Wire automation

■ CONTROL DEVICES

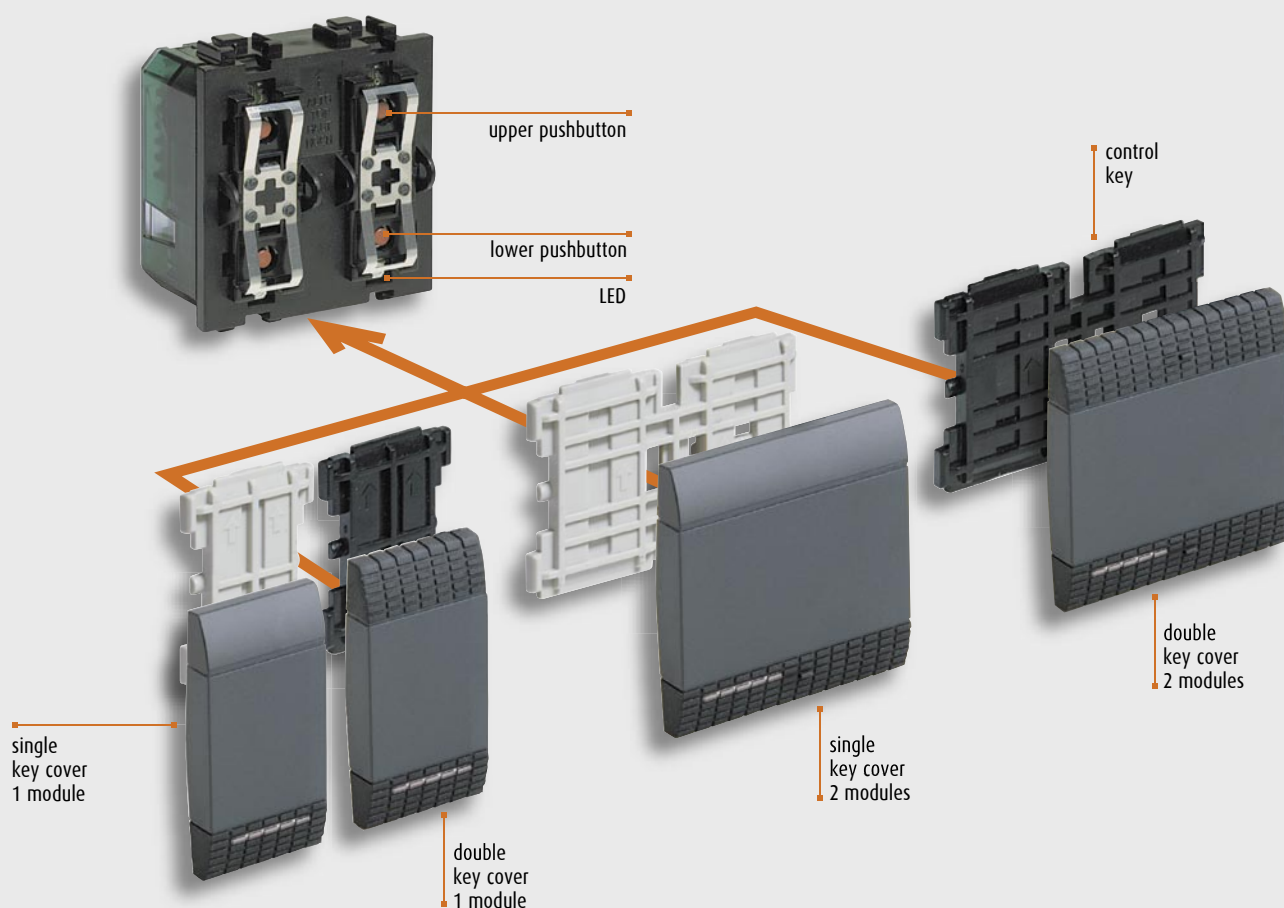
Control devices allow you to control the status of the actuators, thus executing different functions: ON, OFF, timing, etc., which depend on the functioning mode that has been assigned to them through an appropriate configuration.

The electronic part of these devices is separated from the mechanical operating part so that one can choose the type, number and size of the control pushbuttons.

The device can be modular, thus meeting the different installation requirements and different functions required by the user.

Two types of keys and key covers can be used:

- single key cover, with one or two AXOLUTE, LIVING, LIGHT, LIGHT TECH and KRISTALL (transparent) modules, to be used with the grey control key;
- double key cover, with one or two AXOLUTE, LIVING, LIGHT, LIGHT TECH and KRISTALL modules, to be used with the black control key.



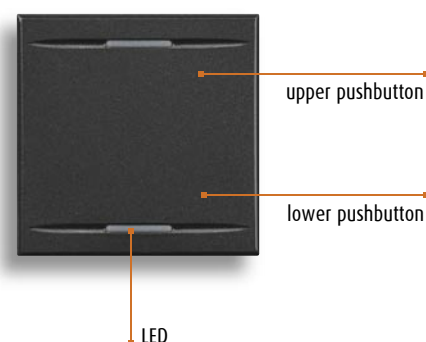
From a functional point of view, the control with the single key cover can become integrated with a traditional closing contact (pushbutton or switch);

conversely, the double key cover (tilting) can become integrated with a traditional exchanging contact.

All controls are provided with an indicator which indicates the status of the control (activated or deactivated), thus enabling its identification in the dark.

Depending on the operating modes that can be obtained, the control devices can be divided into:

- devices for basic functions;
- devices for advanced functions.



■ BASIC CONTROL DEVICES

The following devices belong to this category:

- two-module controls
- three-module controls
- two/three module AXOLUTE touch controls
- passive IR detector

These components are able to send commands for single loads (lamps, exhausters, air-conditioners, etc.) and to double loads (motor for rolling shutters, curtains, etc.).

Infrared devices have the advantage of sending their command to the BUS when they are activated by a remote control or by the presence of a person; conversely, the commands must be operated locally from the user, hence they must be completed with AXOLUTE, LIVING, LIGHT, LIGHT Tech or KRISTALL key covers.

The modularity and type of key covers to be installed must be chosen according to the function to be executed by the device.



2-module touch control item HS4653/2 complete with AXOLUTE cover plate



Passive IR detector item HC4610 with AXOLUTE cover plate

Wire automation

■ CONTROL DEVICES FOR IMPROVED FUNCTIONS – SCENARIOS

This category includes devices that allow you to complete particular and advanced automation functions. An example is represented by the possibility to create scenarios, in other words particular environmental comfort situations represented, for example, by the activation of a few lights at a given brightness level and by the position of some shutters in order to watch TV or read a book, according to the user's lifestyle.

Another example of advanced scenario that can be carried out with different integrated MY HOME systems is represented by the activation of particular background music, by the temperature setting and by the brightness level of the house when receiving friends. The above-mentioned scenarios are managed by particular devices able to memorize all the commands determining the scenario and that the user can set simultaneously by pressing just one button. The following functions can be executed by the control devices:

- scenario module item F420 with two DIN modules to store 16 scenarios for the automation, sound system, temperature control and Video door entry applications.
- scenario control item HC/HS4680 and item L/N/NT4680 for storing 4 scenarios for automation applications or for selecting four scenarios stored by the scenario module item F420.

The scenarios stored by the above devices can also be selected by using the two-module control item H/L4651/2, the IR receiver item HC/HS4654 and item L/N/NT4654N for remote control, the TOUCH SCREEN item L/N/NT4683 and item H4684, the VIDEO DISPLAY item 349311, item 349312 and the VIDEO STATION item 349310.



The following devices manage the scenario module item F420

- 1 Standard control
 - 2 IR control
 - 3 SOFT TOUCH
 - 4 Scenario control
 - 5 TOUCH SCREEN
 - 6 VIDEO STATION
- VIDEO DISPLAY
SOFTWARE MHVISUAL

■ TOUCH SCREEN

The TOUCH SCREEN item H4684 and item L/N/NT4683 is an environment control for all MY HOME functions. It is possible to switch the lights on and off, lower or lift the shutters, control the watering system in the garden, adjust the temperature in all rooms, etc. All this can be done from one spot by simply touching the icons of the various functions on the TOUCH SCREEN display. The display starts with a "home page". The applications that can be managed are shown graphically inside the home page. When you touch the icon of the application you want to manage (e.g. lighting), a page will be displayed. This page will contain the customised icons of the light points. Again, with a simple touch on the chosen icon, the lamp or lamps associated to it will turn on or turn off. The TOUCH SCREEN can be easily installed in a 506E box and is available in AXOLUTE, LIVING, LIGHT or LIGHT TECH styles.



Colour TOUCH SCREEN item H4684 AXOLUTE

■ VIDEO DISPLAY AND VIDEO STATION

The VIDEO DISPLAY item 349311, item 349312 and the VIDEO STATION item 349310 have been specially designed to manage Video door-entry functions when installed in integrated MY HOME systems (Automation with Video door-entry, Burglar alarm, Temperature control, etc.). They are able to manage all domotic functions by activating customisable menus that can be viewed on a colour LCD display. As for the Automation functions, both devices let you activate the scenarios stored in the Scenario module item F420 from a special menu.

> SCENARIO I
SCENARIO II
SCENARIO III
SCENARIO IV
SCENARIO V

Scenario activation menu



VIDEO STATION

VIDEO DISPLAY

Wire automation

■ ACTUATOR DEVICES

These devices execute direct commands and control the connected load in the same way as an electromechanical relay.

For this reason, they must be connected to the BUS cable using the removable terminals as well as to the 230V a.c. supply line of the load.

There are different types of actuators: they can differ by shape, size, installation features and by their controlled power.

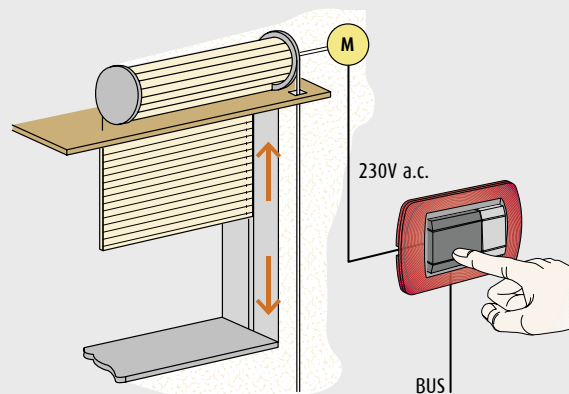
The range includes:

- actuators with one / two AXOLUTE, LIVING/LIGHT modules;
- Basic modularity actuators with reduced profile;
- DIN module actuators.

■ FLUSH-MOUNTING WITH 2 MODULES

They are available with 1 and 2 interlocked relays: command for 1 single load (lamp or motor) or 1 double load (motor for shutters).

These actuators can be advantageously used as a control point, as they are provided with control buttons at the front side operated by AXOLUTE, LIVING, LIGHT, LIGHT Tech and KRISTALL key covers.



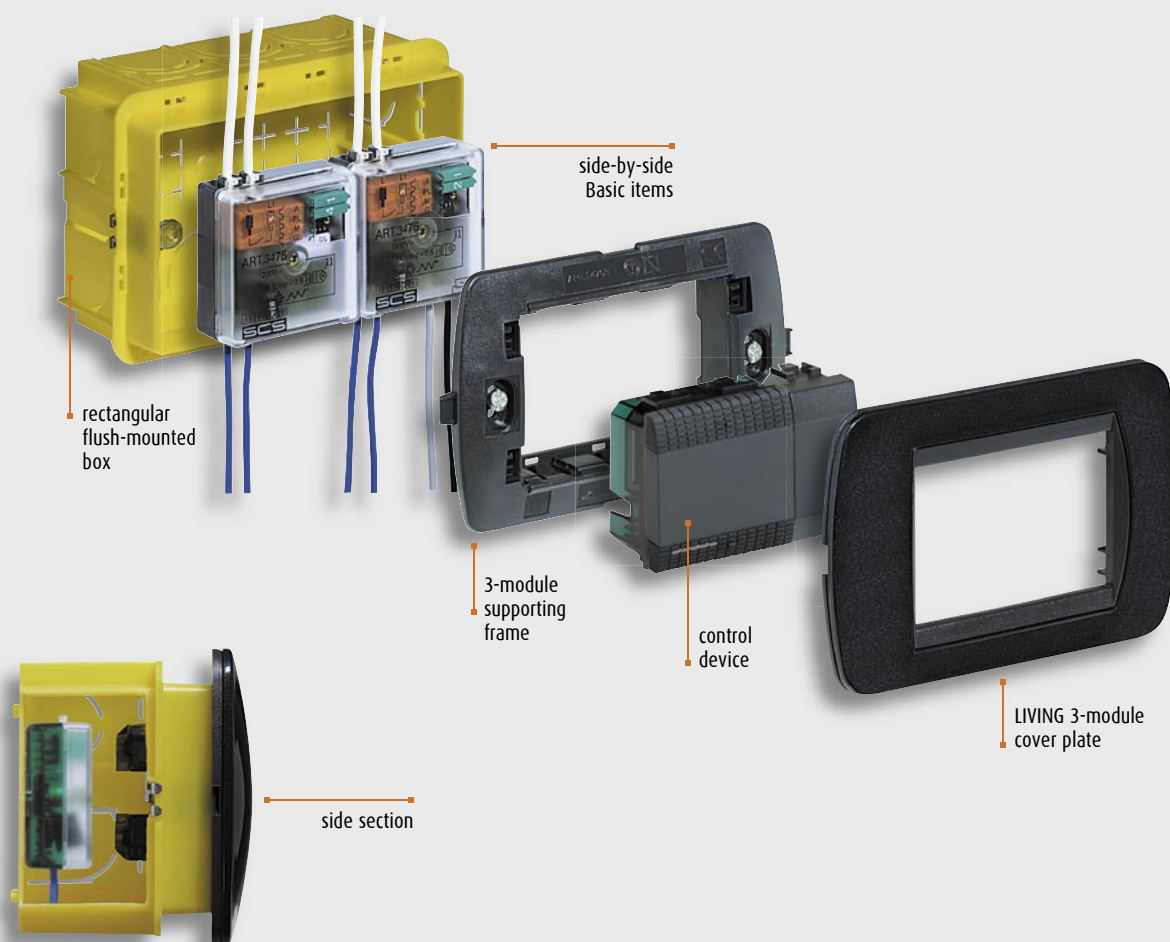
Installation of the actuator to control the rolling shutters

■ BASIC MODULE ACTUATOR

Basic actuators are characterized by extremely compact dimensions: width = 40.5 mm, height = 40.5 mm, depth = 18 mm. These dimensions allow the actuators to be installed in junction boxes or inside the load to be controlled (for example in the bowl of a chandelier, in the structure of a lampstand, etc.). It is also possible to place the control for two light points (item L4652/2) with their Basic actuators in a 503E box; the installation can otherwise be achieved with a 504E box or by finding new spaces for the positioning of the actuators.



Example of installation in flush-mounting box



Wire automation

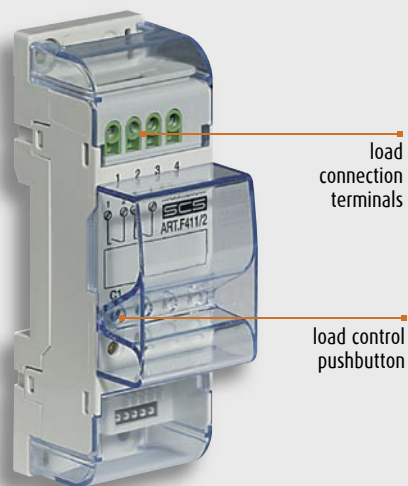
DIN MODULE ACTUATORS

These devices are suitable for centralised installations in boards and switchboards (2 DIN modules). Available in versions with 1, 2 and 4 relays for controlling single loads or double loads (motor for shutters); these devices are also provided with load control keys for carrying out an operational test.

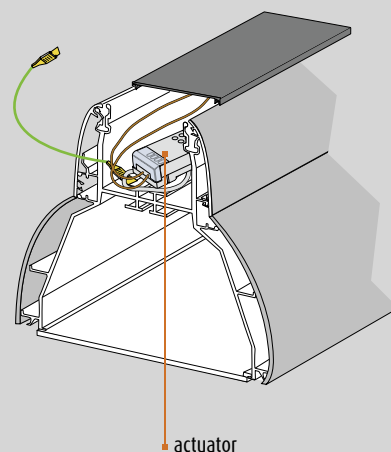
These actuators are characterised by having the advantage of removing the rear DIN adapter and the front cover so as to reduce the overall dimensions, thus allowing them to be installed in raceways, junction boxes, false ceilings, boxes for rolling shutters, etc. With centralised installations (for example, E215/... or MULTIBOX DIN

switchboards) the DIN adapter and the front cover enable you to align the profile of the adapter to that of the other DIN modular devices.

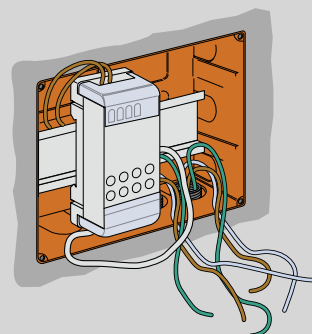
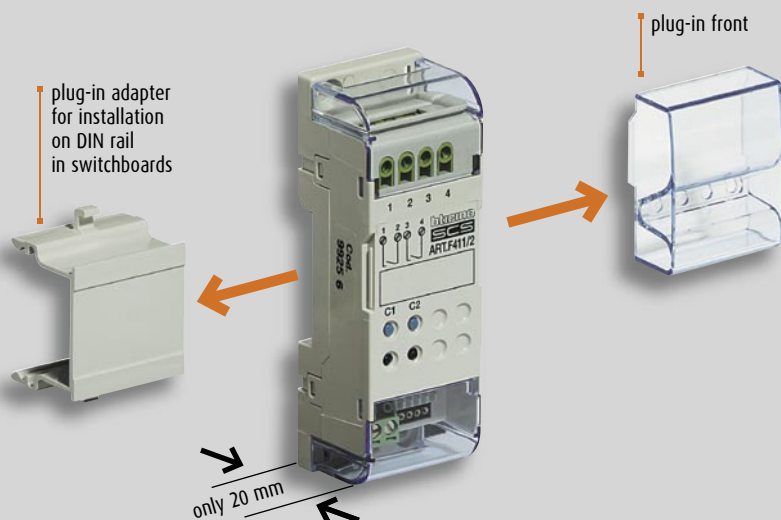
DIN actuator for installation in switchboards



Installation in the INTERLINK trunking



Installation in junction boxes



■ INTERFACES

Although the automation system uses specific devices, it also allows you to use traditional devices or a personal computer, thus allowing high flexibility of use for external systems. The connection between modern digital BUS technology and a traditional cabling component or PC is represented by special devices called interfaces. As a result, these devices interpret information of the traditional world, thus

translating it into signals compatible with BUS logic devices.

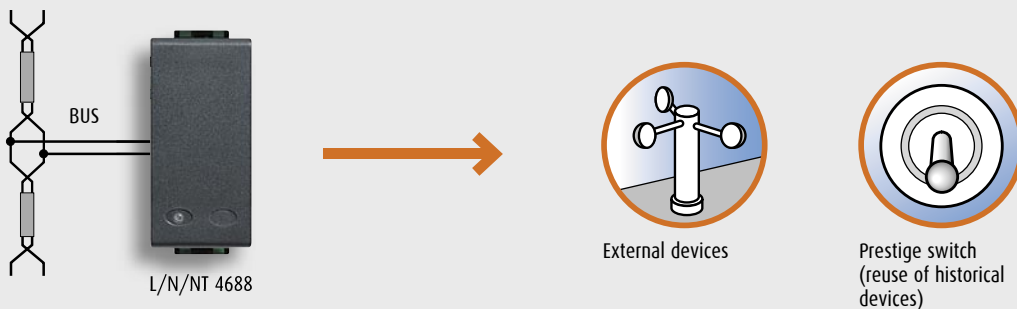
These interfaces are:

- Interface RS232 item L4686
- LIVING, LIGHT, LIGHT TECH contact interface item L/N/NT4688
- Contact interface in Basic module item 3477
- Interface SCS/SCS item F422
- Interface SCS/EIB item F426.

■ LIVING, LIGHT, LIGHT TECH CONTACT INTERFACE

With this device it is possible to connect traditional devices to the BUS, such as switches and pushbuttons, thus extending the use of the BUS to

traditional pre-existing systems. It is also possible to interface thermostats, control devices, humidity detectors, wind detectors etc.

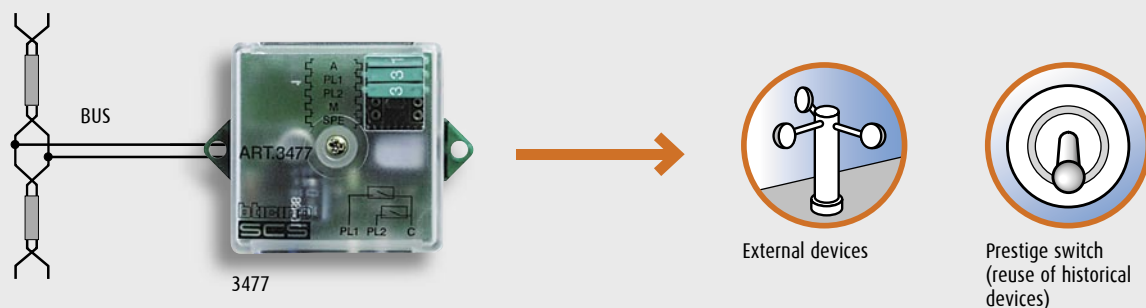


Wire automation

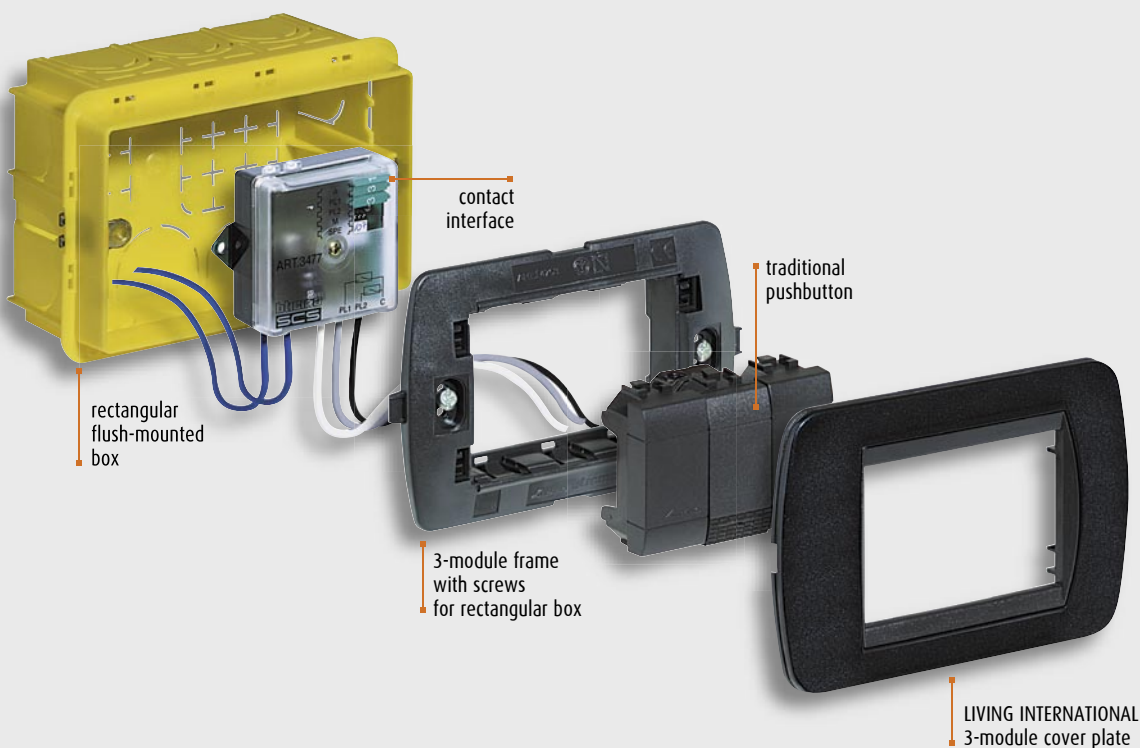
CONTACT INTERFACE IN BASIC MODULE

The essential feature of this device, due to the reduced overall dimensions, is the rear-device installation mode. As a result, it is possible to install the interface in a 503E box right behind the traditional devices (e.g. switch, pushbutton) or

behind electronic shallow devices (e.g. controls, detectors). This installation solution simplifies the conversion of conventional electrical systems into domotic systems as it is possible to keep the existing flush mounting boxes, thus avoiding masonry work.

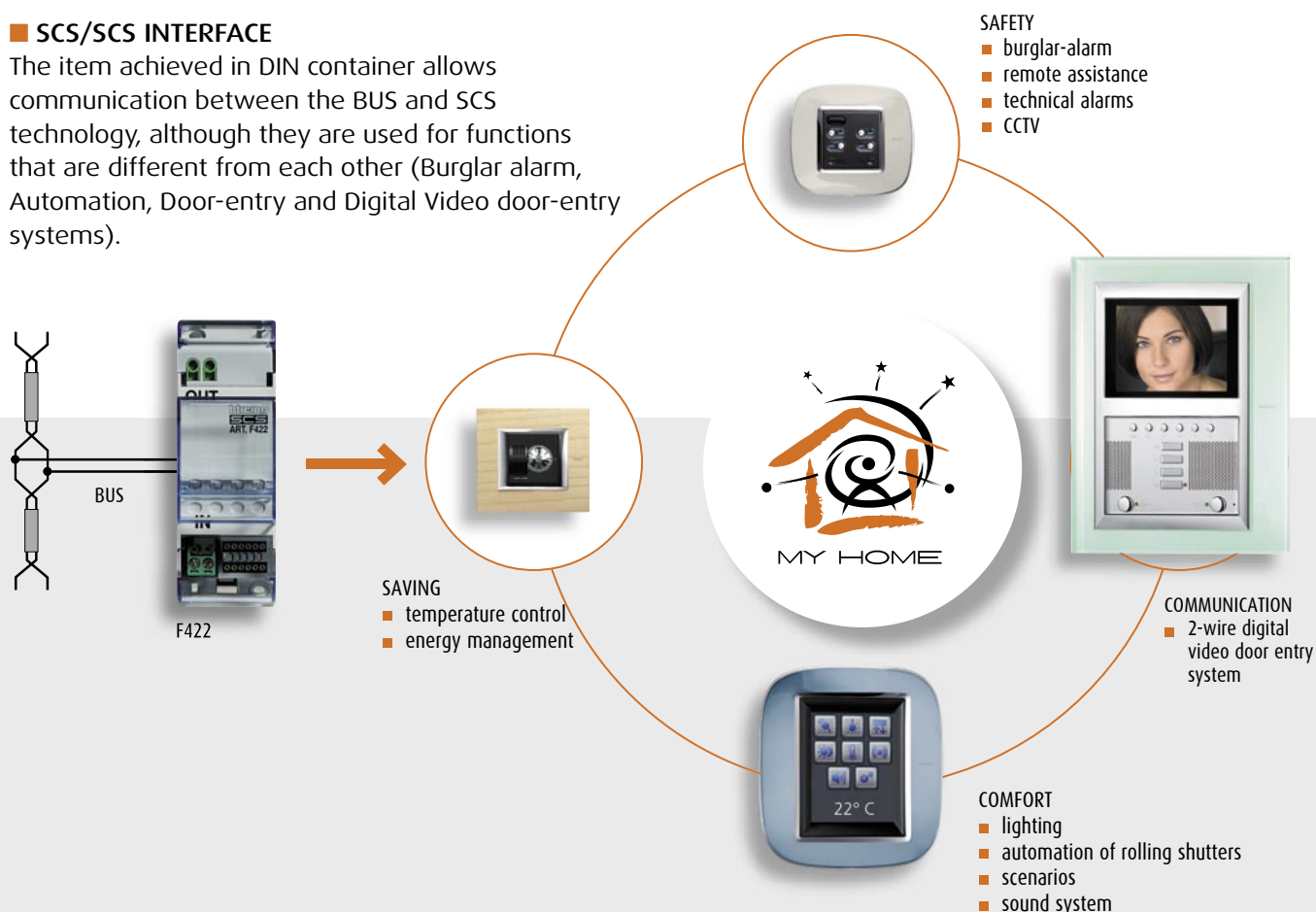


Example of installation in flush-mounting box



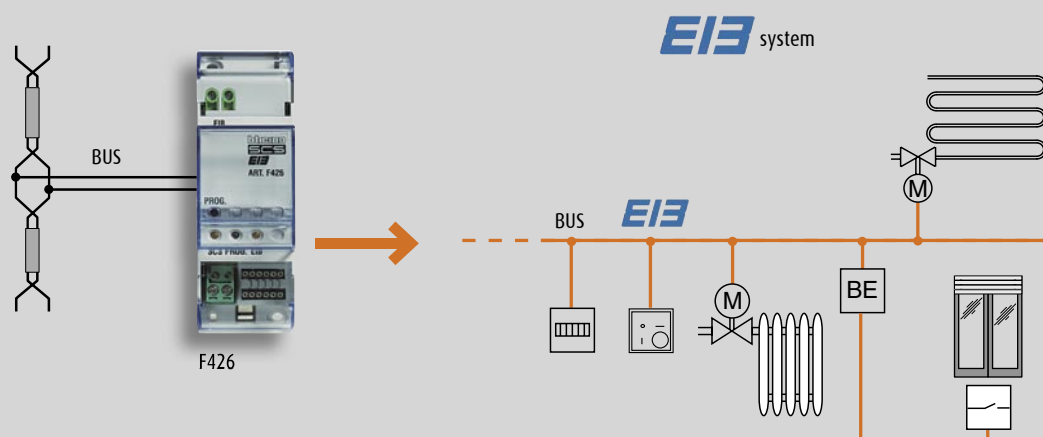
■ SCS/SCS INTERFACE

The item achieved in DIN container allows communication between the BUS and SCS technology, although they are used for functions that are different from each other (Burglar alarm, Automation, Door-entry and Digital Video door-entry systems).



■ SCS/EIB INTERFACE

The interface creates a connection between systems based on SCS technology and EIB systems. This item is also achieved in a 2-module DIN container.



Radio automation

The radio automation allows for basic domotic functions. Communication between the various control devices and actuators no longer occurs on the BUS (pair) but through radio waves; this considerably reduces cabling operations, hence requiring only a connection of the actuators to the 230V a.c. power line.

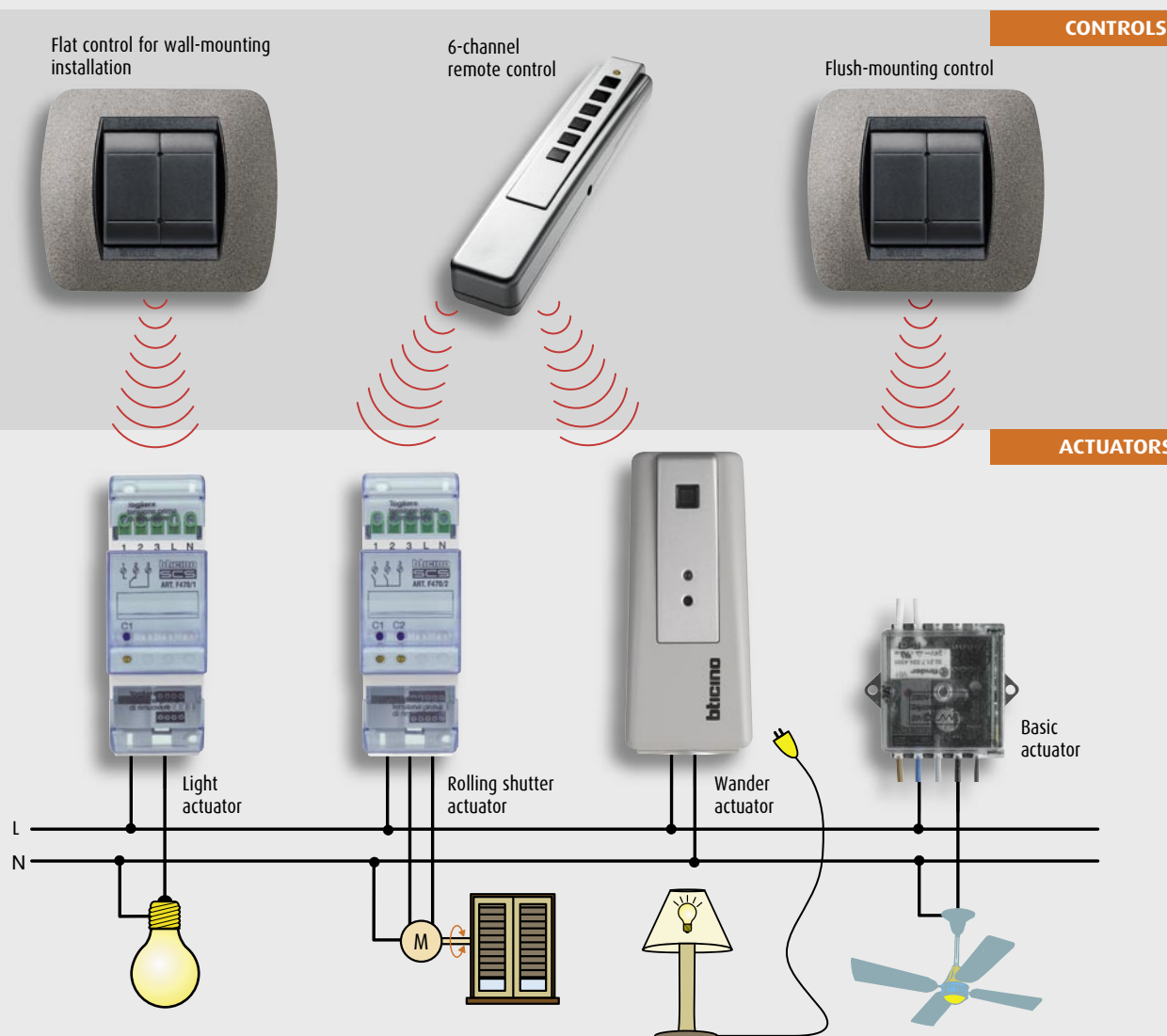
The radio automation catalogue basically includes:

- wall or flush mounting flat control
- remote control
- flush-mounting actuators - AXOLUTE and LIVING/LIGHT modularity
- actuators - BASIC module
- DIN module actuators
- mobile actuators.

In order to control a rolling shutter or switch on a lamp, only one actuator connected to the load is necessary as well as a radio control which can be positioned anywhere inside the house – since it is not physically connected to the actuator – without any masonry work.

Therefore, radio devices are the perfect solution for any situation in which it is not possible or not recommended to carry out operations on existing wiring. The main applications are:

- extensions on existing systems (see next paragraph)
- small all-radio systems.

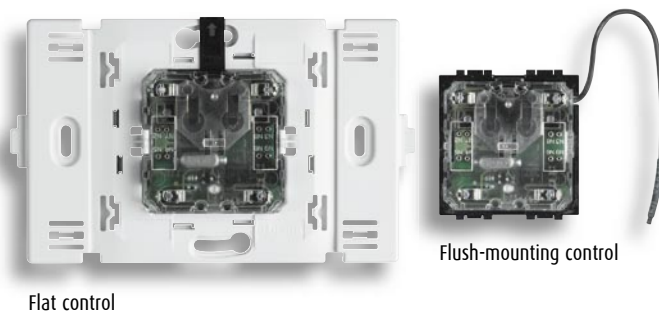


■ CONTROL DEVICES

WALL-MOUNTING OR FLUSH-MOUNTING FLAT CONTROL

These devices are completed with special AXOLUTE, LIVING, LIGHT or LIGHT TECH key covers and cover plates. Two versions are available:

- flat radio control item HA/HB/L4572 powered by a 3V lithium battery, characterised by a reduced thickness of only 13 mm and provided with a support for installations on walls made of glass, wood or stone with double-sided adhesive tape or with screws or screw anchors;
- flat radio control item H/L4572PI, as above, but set up for being flush-mounted with common AXOLUTE, LIVING or LIGHT supporting frames.



REMOTE CONTROL

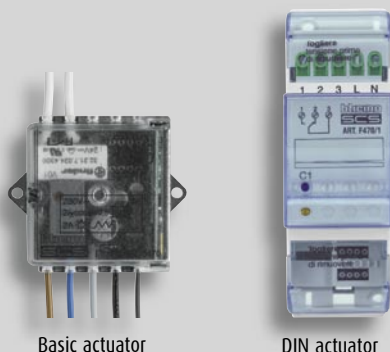
The remote lets you control any type of radio actuator. In addition, by using the receiving interface item HC/HS4575 and item L/N/NT4575N, it can control all the functions of a MY HOME system. This item is set up for being used by disabled people as it has been designed in collaboration with the INAIL Centro Protesi (Prosthesis Center).



ACTUATORS

The catalogue has various types of actuators directly supplied by the 230V a.c. power line connected to the load to be controlled. Depending on the type of load to control and on the type of installation, it is possible to choose the following devices:

- flush mounted with AXOLUTE, LIVING, LIGHT modularity
- BASIC module
- DIN module
- mobile type, in a container with plug and socket for mobile loads (e.g. floor lamps).



Automation/wire radio

RADIO AND WIRE MIXED SYSTEM

A particularly interesting application is the extension of a wire system with other radio devices.

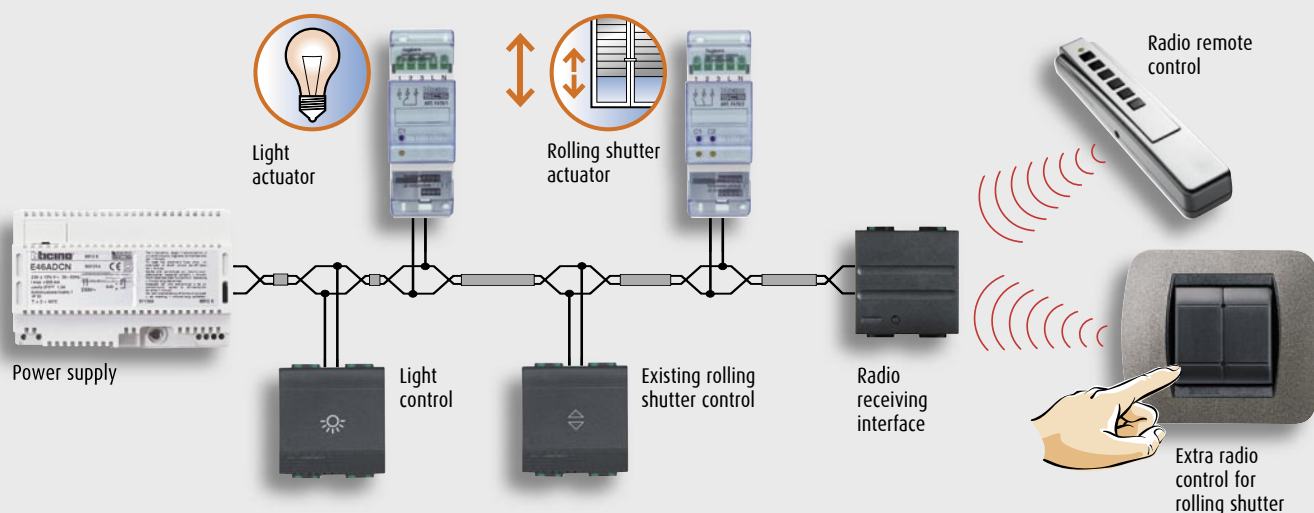
The integration between different transmission technologies is very important because it allows the technician to choose on each occasion the best solution to meet the customer's needs both in terms of functionality and observance of house structure. In this regard, two interfaces are available which can create a mixed radio and wire system:

- a receiving interface which can control any wire system actuator via a radio control;

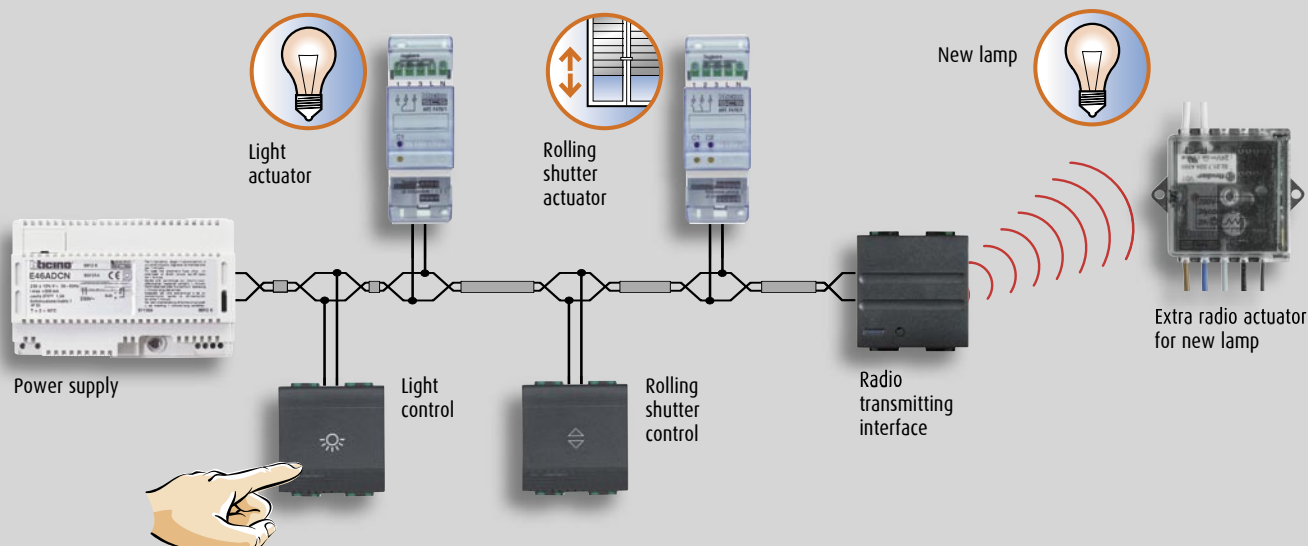
- a transmitting interface for controlling any radio actuator via a wire system control.

These devices must be connected to the BUS and are available with AXOLUTE, LIVING and LIGHT finishes. An application example is given by the extension of a pre-existing wire system without the need to carry out any masonry work due to the additional use of radio devices. Even in offices with movable walls, it may be useful to place the actuators of the wire system inside the false ceiling and use the radio controls, which can be easily moved in case it is necessary to change the office arrangements.

Extension of a system with wire bus for controlling a rolling shutter with a radio control and a remote



Extension of a system with wire bus for controlling a management radio actuator of a new lamp



■ INTERFACES TOWARD WIRE SYSTEM

These items are added to the wire system for the integration of all radio devices.

The integration between the two systems is complete: the actuators and controls of both systems may coexist in the same system and communicate between each other, thus working together to offer maximum installation flexibility.

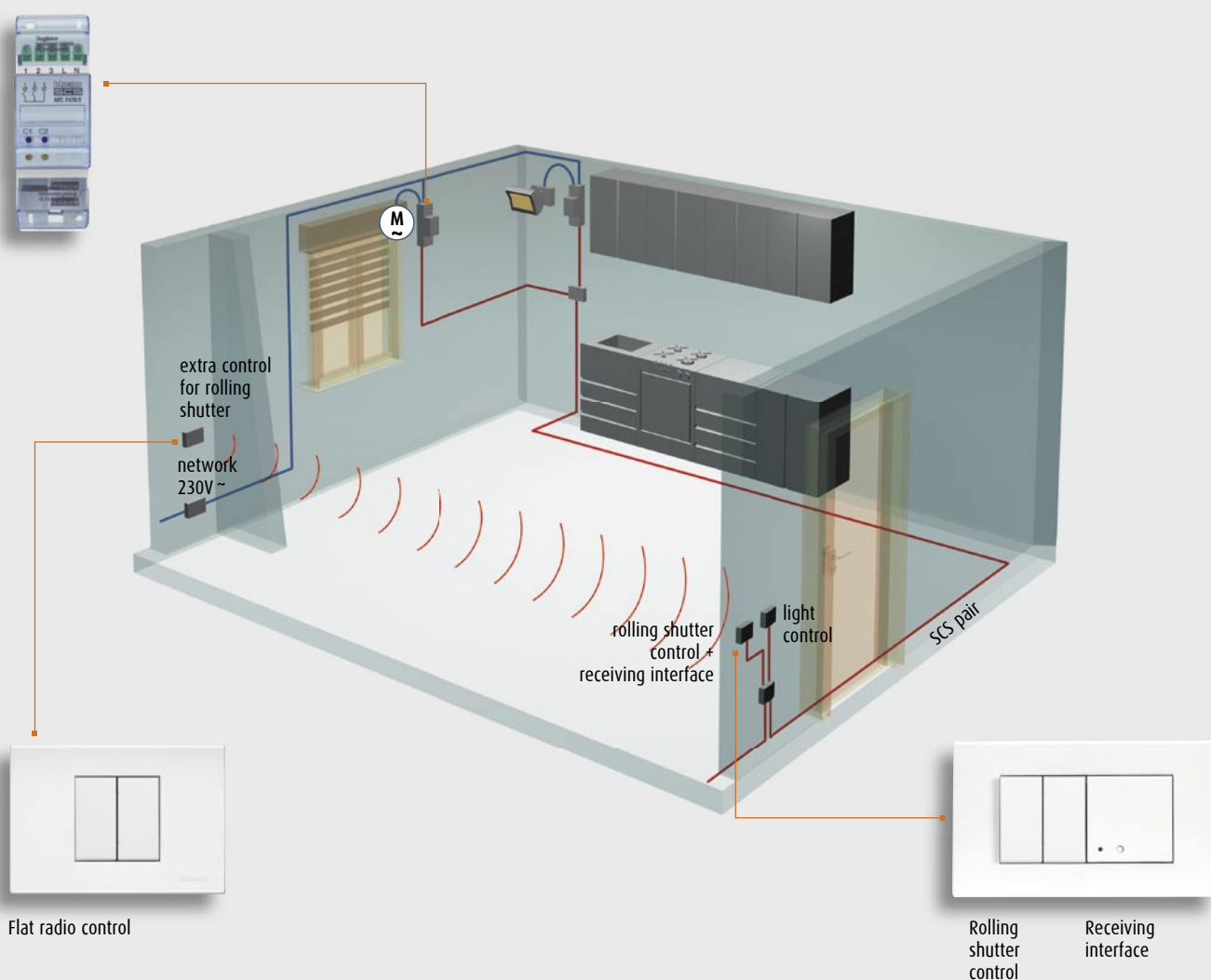


LIVING interface



AXOLUTE Interface

Practical example of a wire system with the addition of a radio control



Wire automation



H4651/2



H4655



H4656



H4652/2



H4652/3



L4651/2



L4655



L4656



L4652/2



L4652/3



HC4653/2



HS4653/2



HC4653/3



HS4653/3

CONTROL FOR SPECIAL FUNCTIONS

Item	Description
H4651/2	control for special functions (timed ON, scenarios) which can control one actuator for single or double loads or 4 scenarios stored in the F420 module - to be completed with 1 or 2 key covers with one or two functions - AXOLUTE
L4651/2	as above - LIVING, LIGHT, LIGHT TECH
H4655*	control for extended systems - allows you to operate an actuator installed on a different bus relative to the control without using auxiliary controls - to be completed with 1 or 2 key covers with one or two functions - AXOLUTE
L4655*	as above - LIVING, LIGHT, LIGHT TECH
H4656*	timed control - allows you to set an advanced timing function up to 59 minutes and 59 seconds - to be completed with 1 or 2 key covers with one or two functions - AXOLUTE
L4656*	as above - LIVING, LIGHT, LIGHT TECH

* For the availability, contact the Bticino sales staff

CONTROLS FOR SINGLE AND DOUBLE LOADS

Item	Description
H4652/2	control which can drive a single actuator for single or double loads or two actuators for single loads or independent double loads - to be completed with 1 2-module key cover for controls with one or two functions or 2 1-module key covers with one or two functions - AXOLUTE
L4652/2	as above - LIVING, LIGHT, LIGHT TECH
H4652/3	control which can drive three actuators for single or independent double loads - to be completed with 3 1-module key covers for controls with one or two functions - AXOLUTE
L4652/3	as above - LIVING, LIGHT, LIGHT TECH

SOFT TOUCH CONTROL

Item	Description
HC4653/2	2 module touch control to actuate/set one actuator or one scenario stored in the F420 scenario module, adjustable LED intensity - AXOLUTE light finish
HS4653/2	as above - AXOLUTE dark finish
HC4653/3	3 module touch control to actuate/set one actuator or one scenario stored in the F420 scenario module, adjustable LED intensity - AXOLUTE light finish
HS4653/3	as above - AXOLUTE dark finish



HC4680



HS4680



L4680



N4680



NT4680

SCENARIO CONTROL

Item	Description
HC4680	scenario control that can be customised to control 4 independent automation, temperature control or sound system "environment situations" stored in the F420 scenario module - AXOLUTE
HS4680	as above - AXOLUTE dark finish
L4680*	as above - LIVING, LIGHT, LIGHT TECH
N4680*	
NT4680*	
* For the availability, contact the Bticino sales staff	



N4681

SCENARIO CONTROL UNIT

Item	Description
N4681	unit which can be personalised to save and control 4 automation "room situations" - acts simultaneously on several actuators chosen by the customer - LED indicates the active scenario



H4684



L4683



N4683



NT4683

TOUCH SCREEN

Item	Description
H4684	colour room command to be installed where there are several MY HOME functions. Interface to control scenarios, lighting, automation, Burglar-alarm, temperature control and energy management - AXOLUTE
L4683	as above - black and white - LIVING, LIGHT, LIGHT TECH
N4683	
NT4683	

Wire automation



HC4607



HS4607



L4607



N4607



NT4607



HC4607/4



HS4607/4



L4607/4



N4607/4



NT4607/4



3530
3530S



3540

CONTROLS PROTECTED WITH CODE

Item	Description
HC4607	item which allows you to store up to thirty transponders (badges) for activating protected commands - 2 modules - AXOLUTE light finish
HS4607	as above - AXOLUTE dark finish
L4607	as above - LIVING, LIGHT, LIGHT TECH
N4607	
NT4607	
HC4607/4	scenario control protected with transponder - allows you to store up to thirty transponders (badges) for controlling 4 protected scenarios - 2 modules - AXOLUTE light finish
HS4607/4	as above - AXOLUTE dark finish
L4607/4	as above - LIVING, LIGHT, LIGHT TECH
N4607/4	
NT4607/4	

TRANSPONDER

Item	Description
3530	portable badge - when brought close to the transponder reader it activates it allowing the transfer of the signal generated on the BUS - does not require batteries for power - can be automatically coded by means of the transponder reader
3530S	as above - slim
3540	as above - key-ring
Warning:	only the transponder readers with production batch 03 18 or higher, on sale from May 2003, can read items 3530S (slim badge) and 3540 (key rings). The older readers only work with item 3530 (badge).



HC4654



HS4654



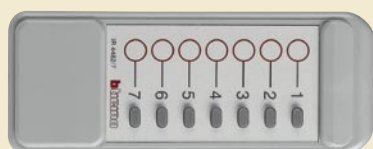
L4654N



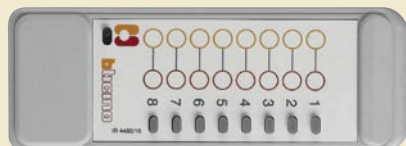
N4654N



NT4654N



4482/7



4482/16

ACTIVE INFRARED RECEIVERS

Item	Description
HC4654	remote control receiver used with a 4482/7 and 4482/16 remote control - up to 16 activations or scenarios stored in the F420 scenario module
HS4654	as above - AXOLUTE dark finish
L4654N	as above - LIVING, LIGHT, LIGHT TECH
N4654N	
NT4654N	

REMOTE CONTROLS

Item	Description
4482/7	IR 7-channel remote control - supplied with two 1.5V AAA batteries
4482/16	IR 16-channel remote control - supplied with four 1.5V AAA batteries

Wire automation



HC4610



HS4610



L4610



N4610



NT4610



HC4611



HS4611



L4611



N4611



NT4611



N4640

PASSIVE INFRARED DETECTORS

Item	Description
HC4610	volumetric presence detector with passive infrared rays - alarm signal LED with memory - capacity 8 metres, angular opening 105°, 14 beams divided on three levels - auxiliary prealarm channel can be activated - AXOLUTE light finish
HS4610	as above - AXOLUTE dark finish
L4610	as above - LIVING, LIGHT, LIGHT TECH
N4610	
NT4610	
HC4611	volumetric presence detector with passive infrared rays - alarm signal LED with memory - capacity 8 metres, angular opening can be divided from 105° to 0°- swivel lens on 2 axes, 14 beams divided on three levels - auxiliary prealarm channel can be activated - AXOLUTE light finish
HS4611	as above - AXOLUTE dark finish
L4611	as above - LIVING, LIGHT, LIGHT TECH
N4611	
NT4611	

NOTE: items belonging to Burglar-alarm catalogue with Automation functions

IR PASSIVE MINI-DETECTORS

Item	Description
N4640	volumetric presence detector with passive infrared rays - alarm signal LED with memory - capacity 8 metres, angular opening 105°, 14 beams divided on three levels - auxiliary prealarm channel can be activated - wall-mounting, inclined and at an angle

NOTE: items belonging to Burglar-alarm catalogue with Automation functions



H4671/1

H4671/2

H4674



H4678



L4671/1



L4671/2



L4674



L4678



HC4672



HS4672



L4672



N4672



NT4672



L4675



N4675



NT4675

FLUSH-MOUNTING ACTUATORS AND DIMMER

Item	Description
H4671/1	actuator with 1 relay with control key - for single loads; 6A resistive or incandescence lamps, 2A cosφ 0.5 for ferromagnetic transformers and 150W fluorescent lamps - to be completed with 2-module key covers for single or double function - AXOLUTE
L4671/1	as above - LIVING, LIGHT, LIGHT TECH
H4671/2	actuator with 2 interlocked relays with control key - for double 500W loads for reducer motors - to be completed with 2-module key covers for double function
L4671/2	as above - LIVING, LIGHT, LIGHT TECH
H4674	actuator to drive a "slave" dimmer Item HC-HS4416 to adjust the brightness of the load, with control keys - up to 3 "slave" dimmers can be connected - to be completed with 2-module key covers for single or double function
L4674	as above - LIVING, LIGHT, LIGHT TECH
H4678	dimmer actuator for incandescence lamps and ferromagnetic transformers - 60 to 300VA 230Va.c. - to be completed with 2-module key covers for single or double function - AXOLUTE
L4678	as above - Living, Light, Light Tech
HC4672	actuator with 1 NC relay - for single loads; 16A resistive or 10A for incandescence lamps and 4A for fluorescent lamps or ferromagnetic transformers - can be used in the Automation system or in the Energy management system - pushbutton for forced operation when used in the Energy management system with configuration of the load operation priorities - AXOLUTE light finish
HS4672	as above - AXOLUTE dark finish
L4672	as above - LIVING, LIGHT, LIGHT TECH
N4672	
NT4672	
L4675	actuator with 1 relay - for single loads; 2A resistive or incandescence lamps and 2A cosφ 0.5 for ferromagnetic transformers - suitable for installation in flush-mounting boxes by the side of the control devices
N4675	
NT4675	

Wire automation

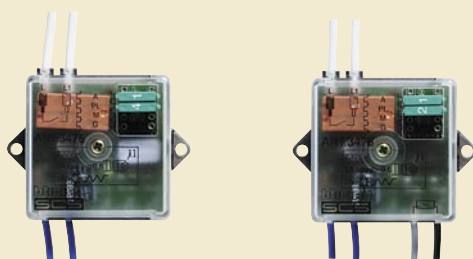


F411/1N

F411/2

F411/4

F412

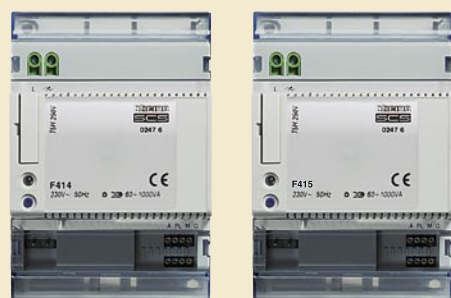


3475

3476



F413



F414

F415

ACTUATORS FOR CENTRALISATIONS – 2 DIN MODULES

Item	Description
F411/1N	two-way relay actuator - for single loads: 16A resistive, 10A for incandescent lamps, 4A cosφ 0.5 for ferromagnetic transformers and 4A for fluorescent lamps
F411/2	actuator with 2 independent relays - for single and double loads: 10A resistive and 6A incandescent lamps, 500W for motor reducers, 2A cosφ 0.5 for ferromagnetic transformers and 250W for fluorescent lamps - logic relay interlock via configuration
F411/4	actuator with 4 independent relays - for single, double or mixed loads: 6A resistive, 2A incandescent lamps, 500W for motor reducers, 2A cosφ 0.5 for ferromagnetic transformers and 70W for fluorescent lamps - logic relay interlock via configuration
F412	actuator with 1 NC relay - for single loads 16A resistive, 10A for incandescent lamps and 4A for fluorescent lamps or transformers

BASIC MODULE ACTUATORS

Item	Description
3475	actuator with 1 relay - for single loads; 2A resistive or incandescence lamps and 2A cosφ 0.5 for ferromagnetic transformers - suitable for installation in ceiling light cups or in flush-mounting boxes behind the control devices
3476	actuator with 1 relay - for single loads; 2A resistive or incandescence lamps, 2A cosφ 0.5 for ferromagnetic transformers - accepts a traditional pushbutton with NO contact in input

1 TO 10V OUTPUT FOR BALLAST - 2 DIN MODULES

Item	Description
F413	the device is an actuator/dimmer for electronic ballasts with input 1 to 10V to drive fluorescent lamps, T8, T5 and energy saving

DIMMER ACTUATORS - 4 DIN MODULES

Item	Description
F414	dimmer actuator for incandescence lamps and ferromagnetic transformers - 60 to 1000VA 230V a.c.
F415	dimmer actuator for electronic transformers - 60 to 400VA 230V a.c.



L4686



336983



336982



336984

INTERFACE TO MANAGE THE SYSTEM WITH A PC

Item	Description
L4686	RS232 interface to connect the serial port of a PC to the Automation system BUS - to be installed together with the specific software (supplied) to define the system management program

CONNECTORS FOR INTERFACE ITEM L4686

Item	Description
336983	LIVING 8-contact connector to connect interface Item L4686 to the BUS
336982	as above - LIGHT
336984	as above - LIGHT TECH



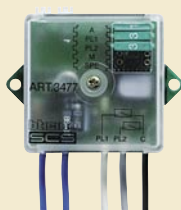
L4688



N4688



NT4688



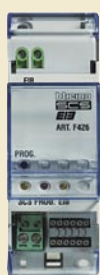
3477

CONTACT INTERFACE

Item	Description
L4688	control interface with 2 independent contacts to control 2 actuators for single-function loads or to control 1 actuator for double-function loads (rolling shutters) - accepts in input two traditional switches or pushbuttons with NO and NC contact or a traditional two-way switch or interlocked pushbuttons
N4688	as above - LIGHT
NT4688	as above - LIGHT TECH
3477	as above - Basic module



F422



F426



F425



F420

SCS-SCS INTERFACE

Item	Description
F422	interface between systems based on SCS BUS even if dedicated to different functions 2 shallow DIN modules

SCS/EIB INTERFACE FOR WIRE AUTOMATION

Item	Description
F426	SCS/EIB interface - to control EIB systems from MY HOME systems

MEMORY MODULE

Item	Description
F425	module to save the actuator state - to reset the light automation system when there is a black-out - 2 shallow DIN modules

SCENARIO MODULE

Item	Description
F420	device to save 16 scenarios for the automation, sound system, temperature control and video door entry applications - 2 DIN modules



MHKIT10

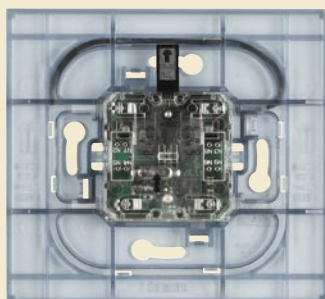


MHKIT20

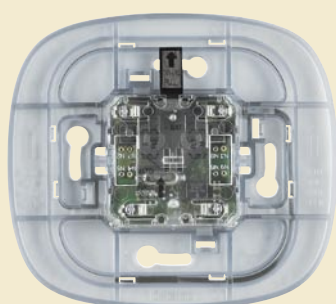
KIT - CONTROL AUTOMATION

Item	Description
MHKIT10	Automation kit in Living, Light and Light Tech styles for the automation of 5 rolling shutters or motor-driven curtains or 3 rolling shutters and 2 curtains with local and general controls
MHKIT20	Automation Kit in Living, Light and Light Tech styles to manage 10 light points with local controls and general switching off control

Automation radio



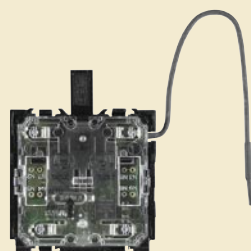
HA4572



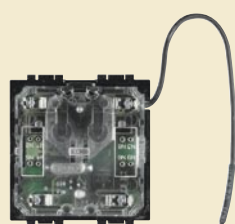
HB4572



L4572



H4572PI

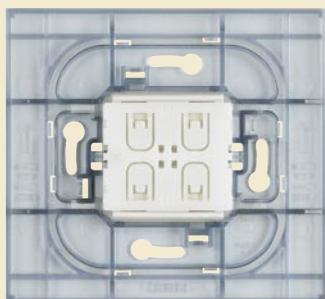


L4572PI

RADIO CONTROL DEVICES WITH BATTERY

Item	Description
HA4572*	flat radio control to be completed with 1-module AXOLUTE key cover item HC/HS4919 and 2-module rectangular cover plate - powered by a 3V CR2032 lithium battery (supplied) - surface mounting installation with double-sided adhesive tape or screws and screw anchors
HB4572*	as above - to be completed with elliptic cover plate
L4572	flat radio control to be completed with 1-module LIVING, LIGHT or LIGHT TECH key cover item L/N/NT4919 and 2-module standard cover plate - powered by a 3V CR2032 lithium battery (supplied) - surface mounting installation with double-sided adhesive tape or screws and screw anchors -
H4572PI*	flush mounting radio control to be completed with 1-module AXOLUTE key cover item HC/HS4919 - powered by a 3V CR2032 lithium battery (supplied) - 2 modules
L4572PI	as above - to be completed with 1-module key covers LIVING, LIGHT or LIGHT TECH item L/N/NT4919

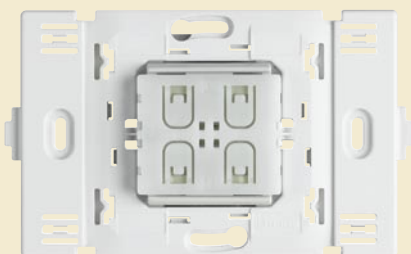
* For the availability, contact the Bticino sales staff



HA4572SB



HB4572SB



L4572SB



3527

RADIO CONTROL DEVICES WITHOUT BATTERY

Item	Description
HA4572SB*	flat radio control to be completed with 1-module AXOLUTE key cover item HC/HS4919SB and 2-module rectangular cover plate - no batteries required - surface mounting installation with double-sided adhesive tape or screws and screw anchors - used in MY HOME applications with special interface item HC/HS4575SB
HB4572SB*	as above - to be completed with elliptic cover plate
L4572SB	flat radio control to be completed with 1-module LIVING INTERNATIONAL, LIGHT or LIGHT TECH key cover item L/N/NT4919SB and 2-module standard cover plate - no batteries required - surface mounting installation with double-sided adhesive tape or screws and screw anchors - used in MY HOME applications with special interface item L/N/NT4575SB

* For the availability, contact the Bticino sales staff

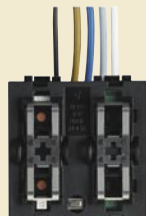
RADIO REMOTE CONTROL

Item	Description
3527	Radio remote control with 6 customisable pushbuttons with graphic labels - ergonomic grip and set up for being used by disabled people (designed in collaboration with the INAIL Prosthesis Center) - powered by 2 non-rechargeable 1.5V AA alkaline batteries (supplied)

Automation radio



H4574



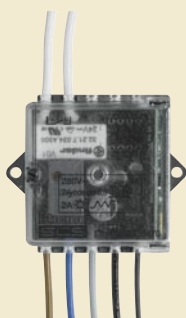
L4574



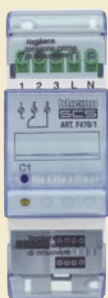
H4573/2



L4573/2



3470



F470/1



F470/2

FLUSH-MOUNTING RADIO ACTUATORS

Item	Description
H4574*	radio actuator with two-way switch – power: 230Va.c. – with control key – with one exchange relay – for single loads: from 0.2 to 2A resistive and for incandescent lamps, 0.2 to 2A cos_ 0.5 for ferromagnetic transformers and from 0.05 to 0.3A for fluorescent lamps and electronic transformers – 2 flush-mounting modules – to be completed with 2-module key cover for single or double function – AXOLUTE series
L4574	as above – LIVING, LIGHT, LIGHT TECH
H4573/2*	rolling shutter radio actuator – power: 230Va.c. – with control key and two interlocked relays for double loads – 500W – for motor reducers – can also be used with one relay for single loads: 2A resistive and for incandescent lamps, 2A cosφ 0.5 for ferromagnetic transformers – 2 flush mounting modules – to be completed with 2-module key covers for single or double function – AXOLUTE
L4573/2	as above – LIVING, LIGHT, LIGHT TECH
3470	Basic radio actuator – power: 230Va.c – with one relay – for single loads: 2A resistive and for incandescent lamps, 2A cosφ 0.5 for ferromagnetic transformers suitable for installation in ceiling light cups or in flush-mounting boxes

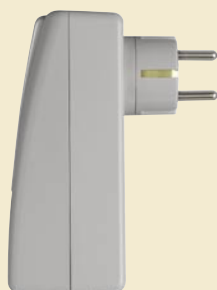
* For the availability, contact the Bticino sales staff

DIN MODULE RADIO ACTUATORS

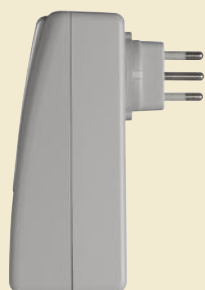
Item	Description
F470/1	radio actuator with 1 relay - power: 230Va.c. – for single loads: 10A resistive, 6A for incandescent lamps, 2A cosφ 0.5 for ferromagnetic transformers and 2A for fluorescent lamps and electronic transformers – 2 DIN modules
F470/2	actuator with 2 relays - power: 230Va.c. – for single and double loads: 6A resistive, 2A for incandescent lamps, 2A cosφ 0.5 for ferromagnetic transformers, 0.3A for fluorescent lamps and electronic transformers – 500W for motor reducers – 2 DIN modules



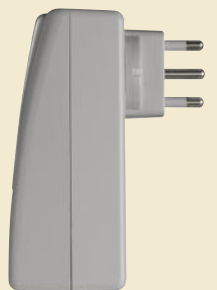
front view



3526



3526/10



3526/16

WANDER RADIO ACTUATORS

Item	Description
3526	mobile actuator with Schuko plug and universal socket (Schuko, 10A, 16A) - power: 230Va.c.- with one relay - for single loads: 16A resistive, 10A for incandescent lamps, 4A cosφ 0.5 for ferromagnetic transformers and 4A for fluorescent lamps and electronic transformers
3526/10	mobile actuator with 10A plug and Schuko socket/10A - power: 230Va.c.- with one relay - for single loads: 10A resistive and for incandescent lamps, 4A cosφ 0.5 for ferromagnetic transformers and 4A for fluorescent lamps and electronic transformers
3526/16	mobile actuator with 16A plug and universal socket (Schuko, 10A, 16A) - power: 230Va.c. - with one relay - for single loads: 16A resistive, 10A for incandescent lamps, 4A cosφ 0.5 for ferromagnetic transformers and 4A for fluorescent lamps and electronic transformers



HC4575
HC4575SB
HC4576



HS4575
HS4575SB
HS4576



L4575N
L4575SB
L4576N



N4575N
N4575SB
N4576N



NT4575N
NT4575SB
NT4576N

RADIO RECEIVING INTERFACES

Item	Description
HC4575	radio receiving interface - power supply 27 Vdc from the BUS - 2 modules - AXOLUTE light finish
HS4575	as above - AXOLUTE dark finish
L4575N	as above - LIVING, LIGHT, LIGHT TECH
N4575N	
NT4575N	
HC4575SB	radio receiving interface for flat radio control item HC4572SB - power supply 27V d.c. from the BUS - 2 modules - AXOLUTE light finish
HS4575SB	as above - for flat radio control item HS4572SB - AXOLUTE dark finish
L4575SB	radio receiving interface for flat radio control item
N4575SB	L4572SB - power supply 27V d.c. from the BUS -
NT4575SB	2 modules LIVING, LIGHT, LIGHT TECH

RADIO TRANSMITTING INTERFACE

Item	Description
HC4576	radio transmitting interface - power supply 27V d.c. from the BUS - 2 modules AXOLUTE light finish
HS4576	as above - AXOLUTE dark finish
L4576N	as above - LIVING, LIGHT, LIGHT TECH
N4576N	
NT4576N	

Power supplies and accessories



E46ADCN



E48



E48A1
E48A2



335919



3359



L4669
L4669/500



3515

POWER SUPPLIES

Item	Description
E46ADCN	power supply for MY HOME systems - input 230V a.c. output 27V d.c. SELV - maximum current absorbed 300 mA - maximum current supplied 1.2A - version for fastening DIN rail with 8 modules
E48	basic unit for powering MY HOME systems with several installations (Burglar alarm, Automation, etc.) to be combined with the accessory modules item E48A1 and item E48A2 - Power supply 110 to 230V a.c., output 29 to 35V c.c. 1.2A, absorbed power 131VA cosφ 0.99 - 10 DIN modules
E48A1	accessory module for supplying 27V d.c. 1.2A power to the Burglar alarm, Automation and Temperature control systems - possible to connect 12V 7.2 to 24Ah back-up battery - Size: 4 DIN modules - Pd=7W
E48A2	accessory module for supplying 27V d.c. 1.2A power to the Burglar alarm, Automation, Temperature control and 2-wire Video Door Entry systems - possible to connect 12V 7.2 to 24Ah back-up battery - Size: 4 DIN modules - Pd=4.6W

PC INTERFACE

Item	Description
335919	PC interface cable for programming - for RS232
3359	as above - for USB

SHEATHED PAIR

Item	Description
L4669	sheathed pair made up of 2 flexible conductors with braided and unshielded sheath for burglar-alarm system and automation system - insulation 300/500V - corresponding to standards CEI 46-5 and CEI 20-20 - coil length 100m
L4669/500	as above - in 500m coil

WITHDRAWABLE TERMINALS

Item	Description
3515	spare withdrawable terminals

Accessories



502LPA



502NPA



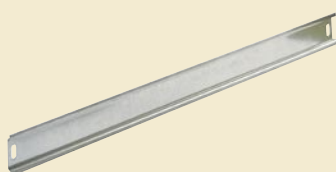
504LIV



F80AL



F400A



F496/PR



F496/MF



F496/PF



F496/FF

SURFACE MOUNTING BOXES FOR MODULAR DEVICES

Shallow surface-mounted box for installation on the wall – fitted with anti-tamper device – 2 modules – complete with frame and, in the LIGHT version, white cover plate (LB)

Item	Series	Supplied with
502LPA	LIVING	supporting frame
502NPA	LIGHT - LIGHT TECH	supporting frame + cover plate LB

TABLE-MOUNTING DEVICE-HOLDER BOX

Item	Description
504LIV*	table-mounting device-holder box - 4 modules LIVING with supporting frame

* item recommended also for the installation of the radio devices

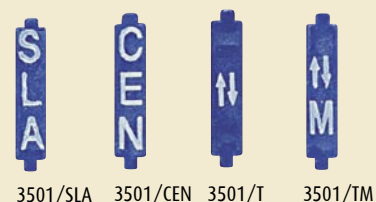
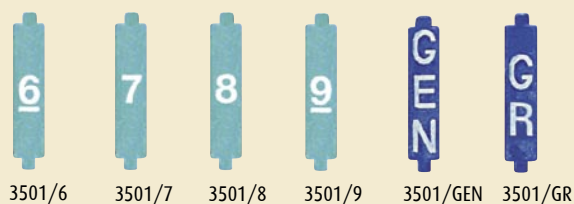
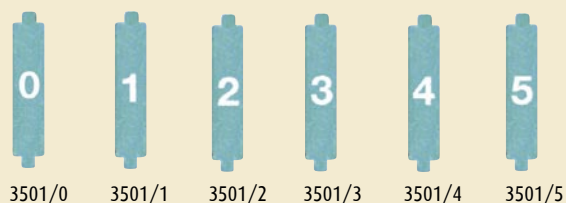
ADAPTERS

Item	Description
F80AL	adapter to install 2 modules LIVING, LIGHT on DIN35 rail
F400A	as above - 3 modules

HOUSE-AUTOMATION PANEL ACCESSORIES

Item	Description
F496/PR	shallow section for DIN 35 rail
F496/MF	clips for fastening on DIN 35 rail (10 pieces)
F496/PF	fastening plate on DIN 35 rail
F496/FF	fastening clamps (10 pieces)

Configurators



CONFIGURATORS – SINGLE-TYPE PACKAGE OF 10 PIECES

Item	Description
3501/0	configurator 0
3501/1	configurator 1
3501/2	configurator 2
3501/3	configurator 3
3501/4	configurator 4
3501/5	configurator 5
3501/6	configurator 6
3501/7	configurator 7
3501/8	configurator 8
3501/9	configurator 9
3501/GEN	configurator GEN
3501/GR	configurator GR
3501/AMB	configurator AMB
3501/AUX	configurator AUX
3501/ON	configurator ON
3501/OFF	configurator OFF
3501/OI	configurator OI
3501/PUL	configurator PUL
3501/SLA	configurator SLA
3501/CEN	configurator CEN
3501/T	configurator ↑↓
3501/TM	configurator ↑↓M

CONFIGURATOR KIT

Item	Description
3501K	Configurator kit from 0 to 9
3501K/1	Configurator kit AUX, GEN, GR, AMB, ON, OFF, O/I, PUL, SLA, CEN, ↑↓, ↑↓M

Key covers AXOLUTE series

MODULES AND FUNCTIONS

1 MODULE



2 functions



1 function

2 MODULES



2 functions



1 function

LIGHT FINISH DEVICES



HC4911AF



HC4911/2AF



HC4911AG
HC4911/2AG



HC4911AH
HC4911/2AH



HC4911AI
HC4911/2AI



HC4911BA
HC4911/2BA



HC4911BC
HC4911/2BC



HC4911BE
HC4911/2BE



HC4911



HC4911/2



HC4915



HC4915/2

DARK FINISH DEVICES



HS4911AF



HS4911/2AF



HS4911AG
HS4911/2AG



HS4911AH
HS4911/2AH



HS4911AI
HS4911/2AI



HS4911BA
HS4911/2BA



HS4911BC
HS4911/2BC



HS4911BE
HS4911/2BE



HS4911



HS4911/2



HS4915



HS4915/2

2-FUNCTION KEY-COVERS WITH SILK-SCREEN PRINTING

Item	Symbol description
1 module	2 modules
HC4911AF	HC4911/2AF
HS4911AF	HS4911/2AF
HC4911AG	HC4911/2AG
HS4911AG	HS4911/2AG
HC4911AH	HC4911/2AH
HS4911AH	HS4911/2AH
HC4911AI	HC4911/2AI
HS4911AI	HS4911/2AI
HC4911BA	HC4911/2BA
HS4911BA	HS4911/2BA
HC4911BC	HC4911/2BC
HS4911BC	HS4911/2BC
HC4911BE	HC4911/2BE
HS4911BE	HS4911/2BE

2-FUNCTION KEY-COVERS WITHOUT SILK-SCREEN PRINTING

Item	Description
HC4911	key-cover without silk-screen printing - 1 mod.
HS4911	
HC4911/2	key-cover without silk-screen printing - 2 mod.
HS4911/2	

1-FUNCTION KEY-COVERS WITHOUT SILK-SCREEN PRINTING

Item	Description
HC4915	key-cover without silk-screen printing - 1 mod.
HS4915	
HC4915/2	key-cover without silk-screen printing - 2 mod.
HS4915/2	

Key covers AXOLUTE series

LIGHT FINISH DEVICES



HC4915AA HC4915/2AA



HC4915AB HC4915/2AB
HC4915AC HC4915/2AC



HC4915AD HC4915/2AD
HC4915BA HC4915/2BA



HC4915BB HC4915/2BB
HC4915BC HC4915/2BC



HC4915BD HC4915/2BD
HC4915BE HC4915/2BE



HC4915BF HC4915/2BF
HC4915BG HC4915/2BG



HC4915BH
HC4915/2BH

DARK FINISH DEVICES



HS4915AA HS4915/2AA



HS4915AB HS4915/2AB
HS4915AC HS4915/2AC



HS4915AD HS4915/2AD
HS4915BA HS4915/2BA



HS4915BB HS4915/2BB
HS4915BC HS4915/2BC



HS4915BD HS4915/2BD
HS4915BE HS4915/2BE



HS4915BF HS4915/2BF
HS4915BG HS4915/2BG



HS4915BH
HS4915/2BH

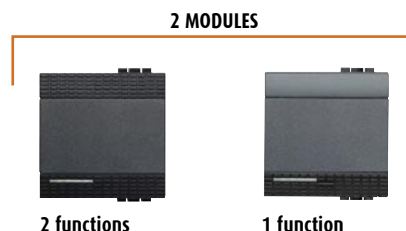
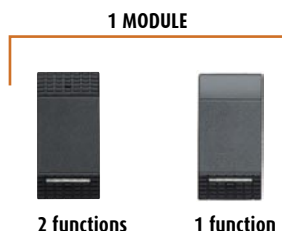
1-FUNCTION KEY-COVERS WITH SILK-SCREEN PRINTING

Item		Symbol description
1 module	2 modules	
HC4915AA	HC4915/2AA	OFF
HS4915AA	HS4915/2AA	
HC4915AB	HC4915/2AB	ON
HS4915AB	HS4915/2AB	
HC4915AC	HC4915/2AC	GEN
HS4915AC	HS4915/2AC	
HC4915AD	HC4915/2AD	Dimmer
HS4915AD	HS4915/2AD	
HC4915BA	HC4915/2BA	Light
HS4915BA	HS4915/2BA	
HC4915BB	HC4915/2BB	Bell
HS4915BB	HS4915/2BB	
HC4915BC	HC4915/2BC	Exhaust fan
HS4915BC	HS4915/2BC	
HC4915BD	HC4915/2BD	Key
HS4915BD	HS4915/2BD	
HC4915BE	HC4915/2BE	Treble clef
HS4915BE	HS4915/2BE	
HC4915BF	HC4915/2BF	Nurse
HS4915BF	HS4915/2BF	
HC4915BG	HC4915/2BG	Room
HS4915BG	HS4915/2BG	
HC4915BH	HC4915/2BH	ALARM
HS4915BH	HS4915/2BH	

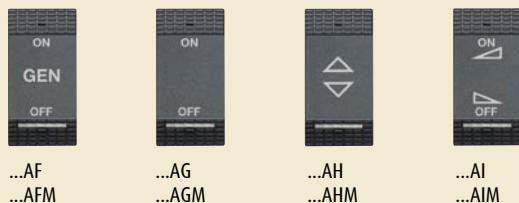
Key covers

LIVING, LIGHT, LIGHT TECH series

MODULES AND FUNCTIONS



Overview of the silk-screen printing



2-FUNCTION KEY-COVERS WITH SILK-SCREEN PRINTING - 1 MOD.

Item			Silk-screen printing description
LIVING	LIGHT	LIGHT TECH	
L4911AF	N4911AFM	NT4911AFM	ON OFF GEN
L4911AG	N4911AGM	NT4911AGM	ON OFF
L4911AH	N4911AHM	NT4911AHM	UP DOWN
L4911AI	N4911AIM	NT4911AIM	ON OFF adjustment
L4911BA	N4915BAM	NT4915BAM	Light symbol
L4911BC	N4915BCM	NT4915BCM	Exhaust fan symbol
L4911BE	N4915BEM	NT4915BEM	Treble clef symbol
L4911BF	N4911BFM	NT4911BFM	Sound system functions

2-FUNCTION KEY-COVERS WITH SILK-SCREEN PRINTING - 2 MOD.

Item			Silk-screen printing description
LIVING	LIGHT	LIGHT TECH	
L4911/2AF	N4911/2AFM	NT4911/2AFM	ON OFF GEN
L4911/2AG	N4911/2AGM	NT4911/2AGM	ON OFF
L4911/2AH	N4911/2AHM	NT4911/2AHM	UP DOWN
L4911/2AI	N4911/2AIM	NT4911/2AIM	ON OFF adjustment
L4911/2BA	N4915/2BAM	NT4915/2BAM	Light symbol
L4911/2BC	N4915/2BCM	NT4915/2BCM	Exhaust fan symbol
L4911/2BE	N4915/2BEM	NT4915/2BEM	Treble clef symbol

Key covers LIVING, LIGHT, LIGHT TECH series



Overview of the silk-screen printing



1-FUNCTION KEY-COVERS WITH SILK-SCREEN PRINTING - 1 MOD.

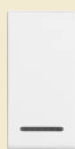
Item			Silk-screen printing description
LIVING	LIGHT	LIGHT TECH	
L4915AA	N4915AAM	NT4915AAM	OFF
L4915AB	N4915ABM	NT4915ABM	ON
L4915AC	N4915ACM	NT4915ACM	GEN
L4915AD	N4915ADM	NT4915ADM	dimmer symbol
L4915BA	N4915BAM	NT4915BAM	lamp symbol
L4915BB	N4915BBM	NT4915BBM	bell symbol
L4915BC	N4915BCM	NT4915BCM	exhaust fan symbol
L4915BD	N4915BDM	NT4915BDM	key symbol
L4915BE	N4915BEM	NT4915BEM	treble clef symbol
L4915BF	N4915BFM	NT4915BFM	nurse symbol
L4915BG	N4915BGM	NT4915BGM	room service symbol
L4915BH	N4915BHM	NT4915BHM	ALARM

1-FUNCTION KEY-COVERS WITH SILK-SCREEN PRINTING - 2 MOD.

Item			Silk-screen printing description
LIVING	LIGHT	LIGHT TECH	
L4915/2AA	N4915/2AAM	NT4915/2AAM	OFF
L4915/2AB	N4915/2ABM	NT4915/2ABM	ON
L4915/2AC	N4915/2ACM	NT4915/2ACM	GEN
L4915/2AD	N4915/2ADM	NT4915/2ADM	dimmer symbol
L4915/2BA	N4915/2BAM	NT4915/2BAM	lamp symbol
L4915/2BB	N4915/2BBM	NT4915/2BBM	bell symbol
L4915/2BC	N4915/2BCM	NT4915/2BCM	exhaust fan symbol
L4915/2BD	N4915/2BDM	NT4915/2BDM	key symbol
L4915/2BE	N4915/2BEM	NT4915/2BEM	treble clef symbol
L4915/2BF	N4915/2BFM	NT4915/2BFM	nurse symbol
L4915/2BG	N4915/2BGM	NT4915/2BGM	room service symbol
L4915/2BH	N4915/2BHM	NT4915/2BHM	ALARM



L4911



N4915M



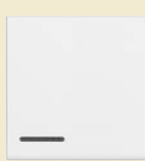
NT4915M



N4932



L4911/2



N4915/2M



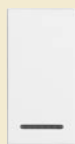
NT4915/2M



N4932/2



L4915



N4915M



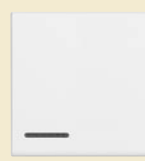
NT4915M



N4932



L4915/2



N4915/2M



NT4915/2M



N4932/2



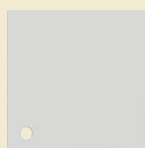
L4932C



N4932C



L4932C/2



N4932C/2

2-FUNCTION KEY-COVERS WITHOUT SILK-SCREEN PRINTING - 1 MOD.

Item

LIVING	LIGHT	LIGHT TECH	KRISTALL
--------	-------	---------------	----------

L4911	N4915M	NT4915M	N4932
-------	--------	---------	-------

2-FUNCTION KEY-COVERS WITHOUT SILK-SCREEN PRINTING - 2 MOD.

Item

LIVING	LIGHT	LIGHT TECH	KRISTALL
--------	-------	---------------	----------

L4911/2	N4915/2M	NT4915/2M	N4932/2
---------	----------	-----------	---------

1-FUNCTION KEY-COVERS WITHOUT SILK-SCREEN PRINTING - 1 MOD.

Item

LIVING	LIGHT	LIGHT TECH	KRISTALL
--------	-------	---------------	----------

L4915	N4915M	NT4915M	N4932
-------	--------	---------	-------

1-FUNCTION KEY-COVERS WITHOUT SILK-SCREEN PRINTING - 2 MOD.

Item

LIVING	LIGHT	LIGHT TECH	KRISTALL
--------	-------	---------------	----------

L4915/2	N4915/2M	NT4915/2M	N4932/2
---------	----------	-----------	---------

PERSONALISED LABELS FOR KRISTALL KEY COVERS

Item

Description

L4932C	personalised label for KRISTALL transparent key-covers - for SCS control module - 1 module
--------	--------------------------------------------------------------------------------------------

L4932C/2	personalised label for KRISTALL transparent key-covers - for SCS control module - 2 modules
----------	---------------------------------------------------------------------------------------------

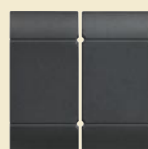
Key-covers for radio controls and domotic hinge



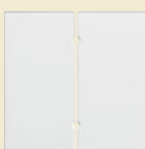
HS4919



HC4919



L4919



N4919



NT4919

KEY-COVERS FOR RADIO CONTROLS WITH BATTERY

Key-covers for radio controls item HA4572, HB4572, H4572PI, L4572, L4572PI

Item

AXOLUTE LIGHT	AXOLUTE DARK	LIVING	LIGHT	LIGHT TECH
HC4919*	HS4919*	L4919	N4919	NT4919

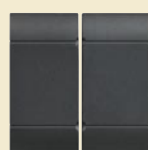
* For the availability, contact the Bticino sales staff



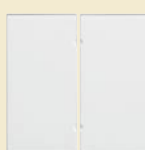
HS4919SB



HC4919SB



L4919SB



N4919SB



NT4919SB

KEY-COVERS FOR RADIO CONTROLS WITHOUT BATTERY

Key-covers for radio controls item HA4572SB, HB4572SB, L4572SB

Item

AXOLUTE CHIARA	AXOLUTE SCURA	LIVING	LIGHT	LIGHT TECH
HC4919SB*	HS4919SB*	L4919SB	N4919SB	NT4919SB

* For the availability, contact the Bticino sales staff



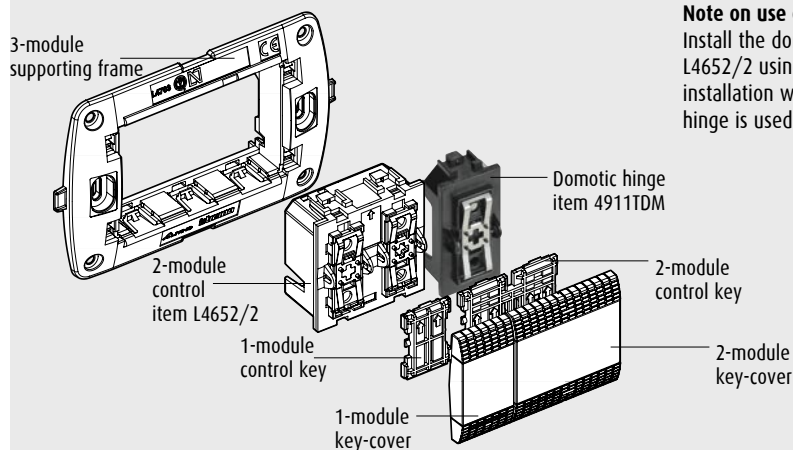
4911TDM

DOMOTIC HINGE

Item

Description

4911TDM	hinge for applying 2-module key covers in place of key covers with one module and blanking plate – to be completed with Living, Light, Light Tech 2-module key cover – can be used only with item L4652/2
----------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Note on use of the Domotic Hinge item 4911TDM

Install the domotic hinge to the right of the 2-module control item L4652/2 using the control keys included in the package. Complete the installation with the Living, Light or Light Tech key covers. The domotic hinge is used only for the 2-module control item L4652/2.

GENERAL RULES FOR INSTALLATION

General rules for installation

The cables inside the home unit must be placed in insulating protective tubes, flush-mounted in the floors, walls or ceilings.

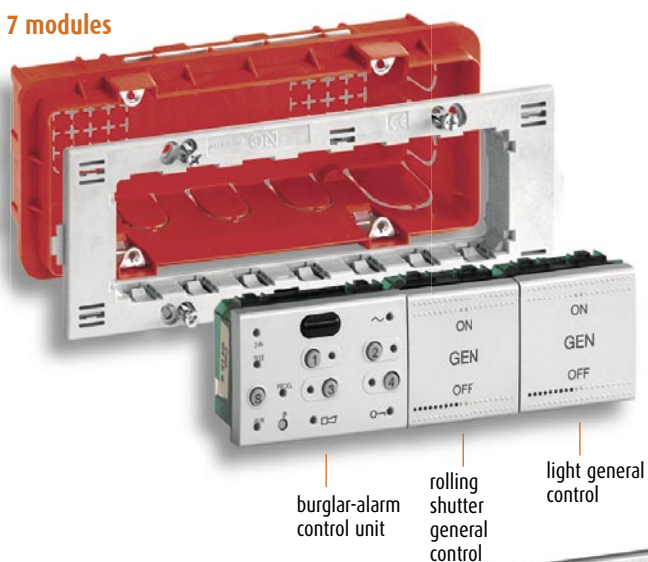
As for garages and basements – considering the difficulty in flush-mounting components in walls located inside these rooms (concrete in garages and a thickness of no less than 10 cm in basements) - it is recommended to install pipes and visible device boxes.

When setting up and carrying out My Home systems, it is recommended to install boxes with 4 or 7 modules instead of those with 3 modules. This will provide more flexibility when installing electronic devices (many of them have 2 modules).

4 modules



7 modules



GENERAL RULES FOR INSTALLATION

Maximum number of devices

Logical dimensions (maximum number of addresses)

A maximum of 9 environment addresses can be managed in one system. For every environment it will be possible to manage up to a maximum of 9 addresses, hence 9 actuators (a total of 81 addresses). Other associations to one or more groups are added to these addresses.

Extended systems (logical expansion)

Within big houses or in commercial/industrial areas, there may be the need to carry out Automation systems characterised by a number of devices that may exceed the above-mentioned address limit. In this case it is possible to carry out a complex Automation system by connecting several Automation systems (maximum 9) to a common bus, using interfaces - item F422 - configured in "logical expansion" mode.

Installation rules:

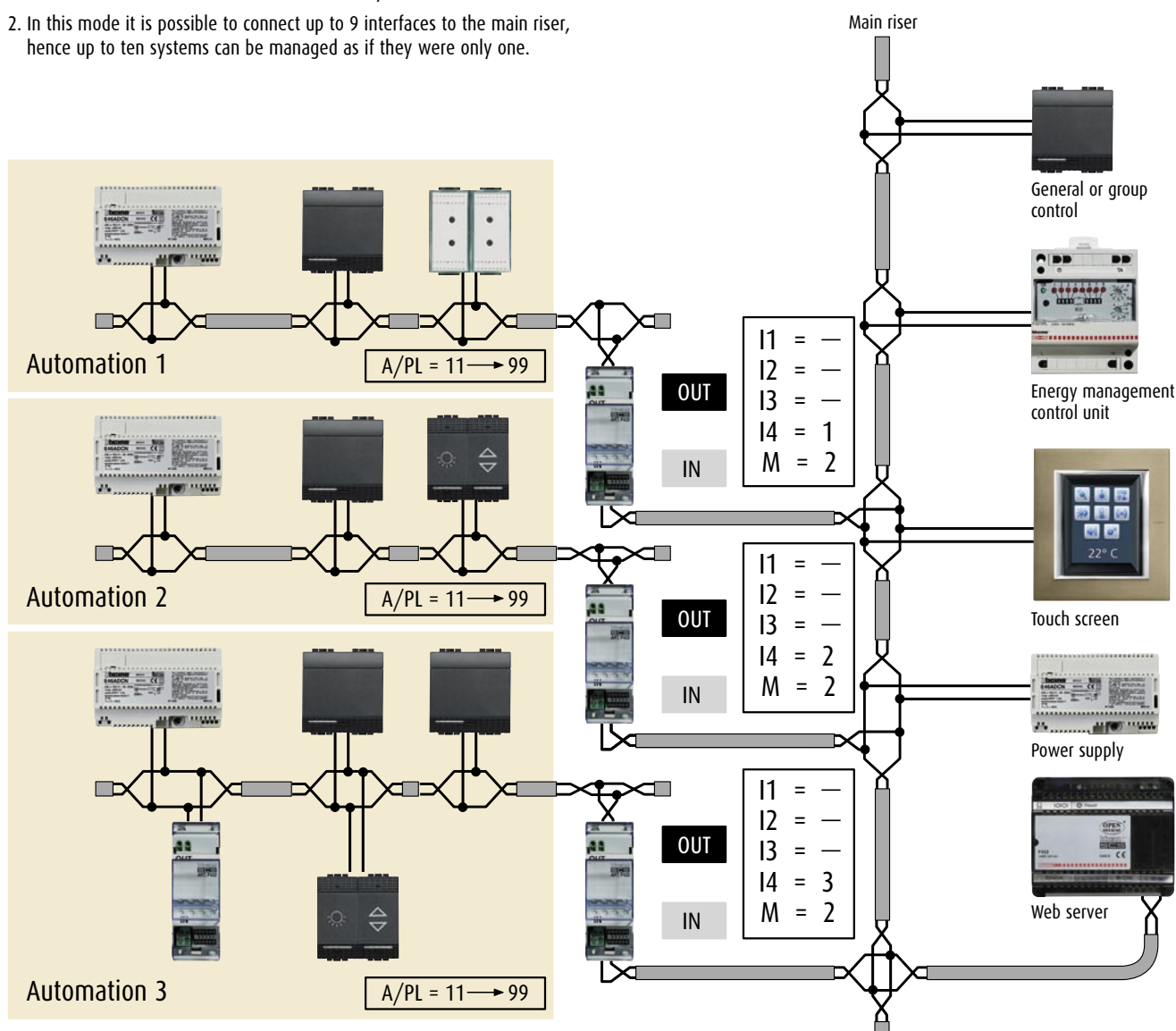
When setting up the system, consider the following recommendations:

1. The main riser must consist of an automation system.
2. In this mode it is possible to connect up to 9 interfaces to the main riser, hence up to ten systems can be managed as if they were only one.

Features:

There are 81 configuration addresses for each system (9 light points for each of the 9 environments). In the main riser it is possible to install control devices configured to send GROUP or GENERAL commands to some or all of the actuators situated in the single systems and in the same main riser. POINT-POINT commands generated inside each single system and on the main riser can reach the actuators situated in the whole system only if they are sent from the appropriately configured cross control device item H/L4655 situated on the main riser or on one of the single systems (max 9) connected. In this case it is possible to address up to a maximum of 810 devices (81 devices per system x 9 systems + 81 devices on the main riser). If you need to control and execute the centralised management of the system with Web Server, Touch screen and Energy Management Control Unit, these devices will have to be installed in the main riser.

For more information, see sections "CONFIGURATION" and "TECHNICAL FEATURES" in this Guide.

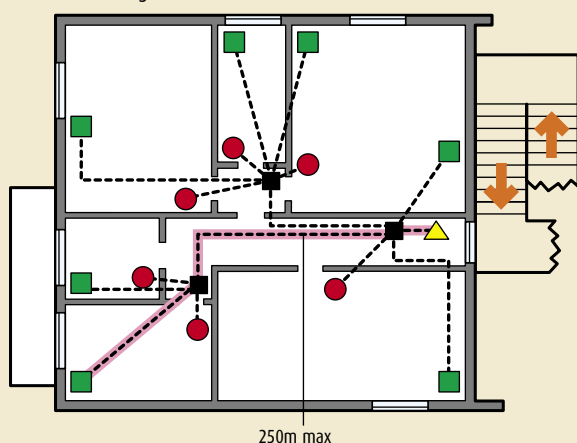


Physical dimensions (associated with the length of the cable and with the absorption of the devices).

The maximum number of devices that can be connected to the BUS depends on their total absorption and on the distance between the connection point and the power supply. The power supply unit can deliver up to 1.2A; hence, the maximum number of devices will be determined by the sum of the absorptions of the single devices you need to install. For the purposes of the above-mentioned calculations, please refer to the "absorption table" included in the "TECHNICAL FEATURES".

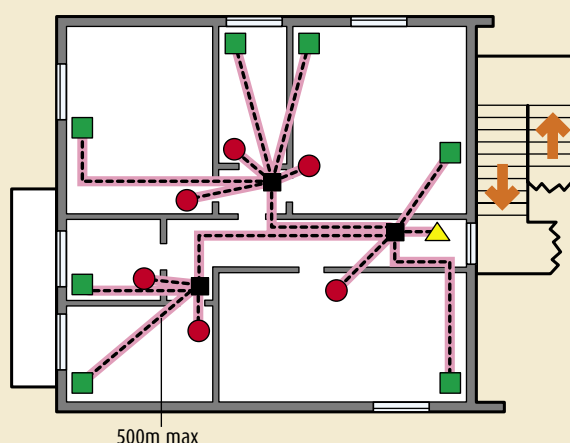
When calculating the absorptions, it is also necessary to consider the availability of current according to the length of the cable.
When setting up, please observe the following rules:

- 1) The connection between the power supply and the furthest away device must not be longer than 250m.

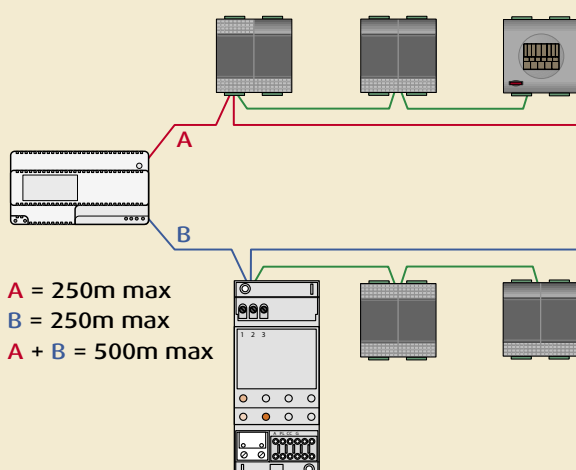


▲ power supply
● control
■ junction box
■ actuator

- 2) The total length of the connections must not be more than 500 metres.



- 3) For optimum division of the currents on the BUS line power supply Item E46ADCN should be positioned in the middle.



A = 250m max
B = 250m max
A + B = 500m max

NOTE: The maximum current available at the end of the 250m BUS cable item L4669 is 600mA.

GENERAL RULES FOR INSTALLATION

Actuators

Extended systems (physical extension)

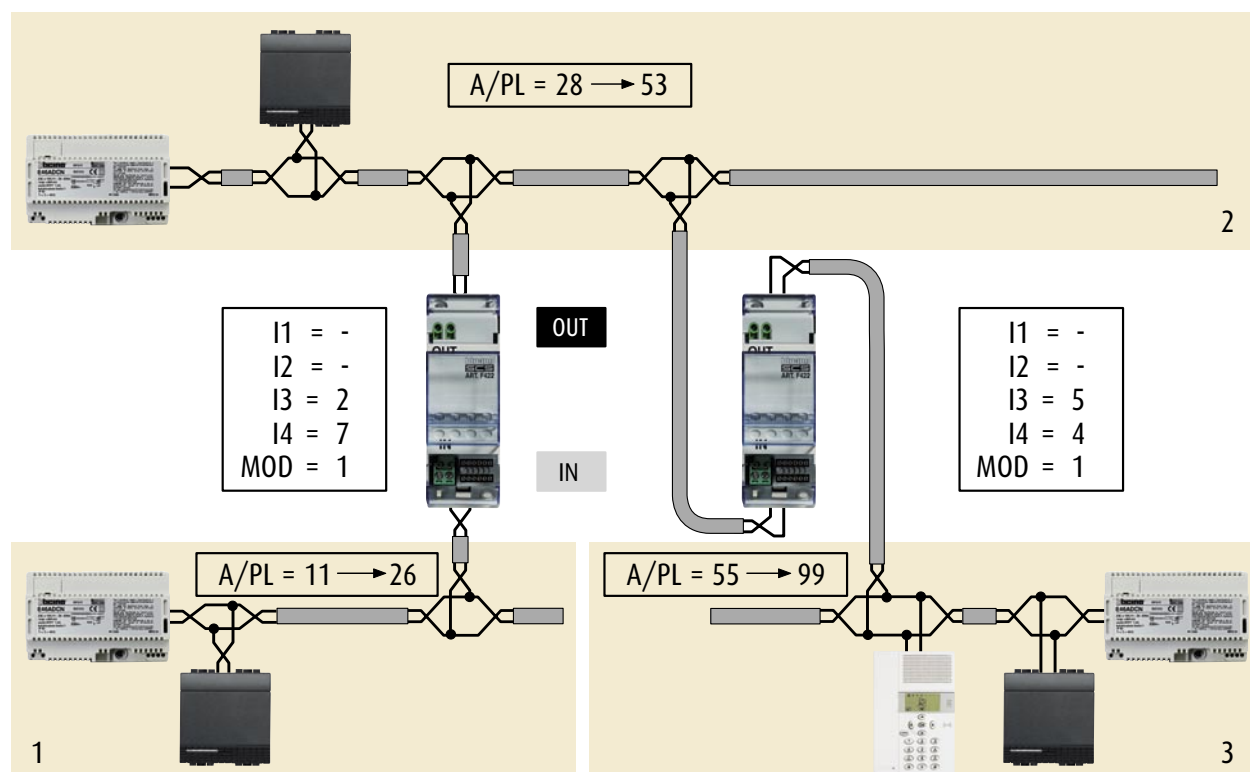
With very extended systems or with current absorption exceeding a limit of 1200 mA supplied by the power unit item E46ADCN, it is necessary to divide the system into several sections supplied with their own power supply unit and connected between each other with a special interface item F422 configured in "physical expansion" mode.

Features:

Limit systems shall be applied to each bus in terms of absorption and maximum wiring distance, as shown in the previous page. Therefore, it is not possible to supply a system consisting of two or more buses with only one power supply unit item E46ADCN, connected to each other by interfaces configured in "physical expansion" mode even if the number and type of components connected to the system do not exceed the set maximum absorption (1200 mA).

Positions I3 and I4 shall be configured according to the configuration of the Automation devices in the two systems connected to each other. With reference to the picture, let us suppose, for example, that I3=2, I4=7:

- on the input bus (IN), the addresses of Automation devices No. 1 must be between A=1 / PL=1 and A=2 / PL=6;
- on the output bus (OUT), the addresses of Automation devices No. 2 must be between A=2 / PL=8 to the address of the next interface.



Installation rules:

When setting up the system, consider the following recommendations:

1. The buses, connected to the interface input and output, must be supplied with their own power supply unit; additionally, the system limits apply for each of them, in terms of absorption and maximum distance specified in the following pages.
Therefore, it is not possible to supply a system consisting of two or more buses with only one power supply unit (item E46ADCN), connected to each other by various interfaces configured in physical expansion mode even if the number and type of components connected to the system do not exceed the set maximum absorption (1200 mA).

2. Two interfaces in parallel cannot be connected to the same bus.

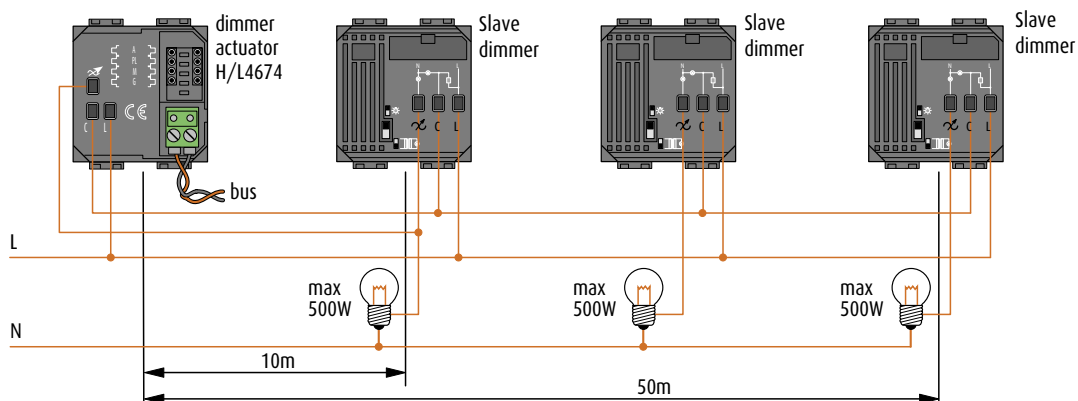
3. It is possible to use up to 4 interfaces in series, which divide the system into 5 separate sections.

DIMMER ACTUATOR ITEM H/L4674

The device must be connected to a Slave dimmer item HC/HS/L/N/NT4416 as indicated in the wiring diagram.

It is possible to connect up to a max. of 3 Slave dimmers item HC/HS/L/N/NT4416.

Diagram to connect more Slave dimmers item HC/HS/L/N/NT4416



ACTUATORS

In order to manage some types of loads correctly, it is necessary to observe the installation specifications for all actuators used.

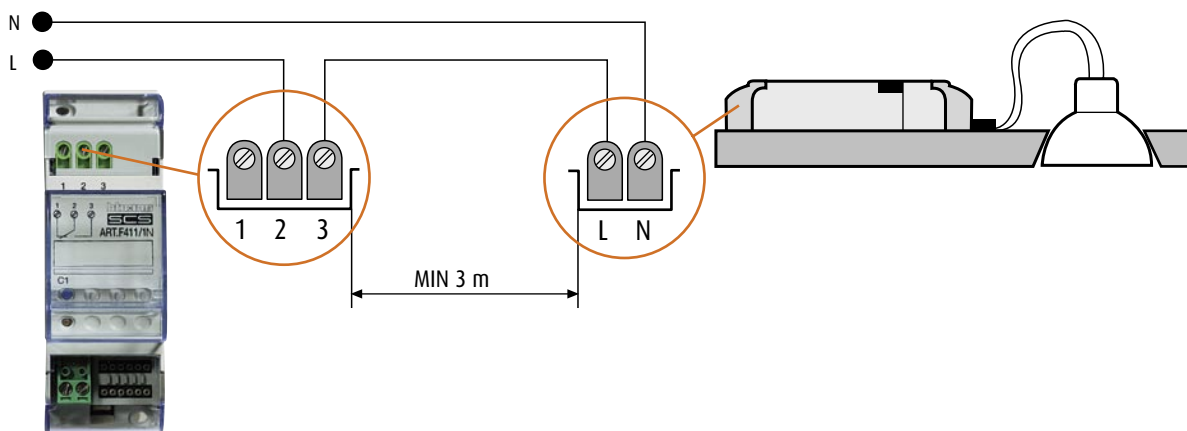
FLUORESCENT LAMPS: the length of the connecting cable between the actuator and the load must not be less than 3m. Do not connect more than 15 actuators controlling this type of lamp on the same line.

METALLIC IODIDE AND SODIUM-VAPOR LAMPS: in addition to the indications given for the fluorescent lamps, please pay attention to the operating instructions of these lamps (for example, avoid switching on when hot), do not connect dimmers to the same line of these lamps, keep the bus line and the power line of these lamps separated from each other (at least 1 metre).

THREE-PHASE NETWORKS: when using three-phase networks, check the balance of the phases as well as the quality of the network.

Non-compliance of the above regulations may affect proper operation of the devices.

Example of connection with item F411/1N

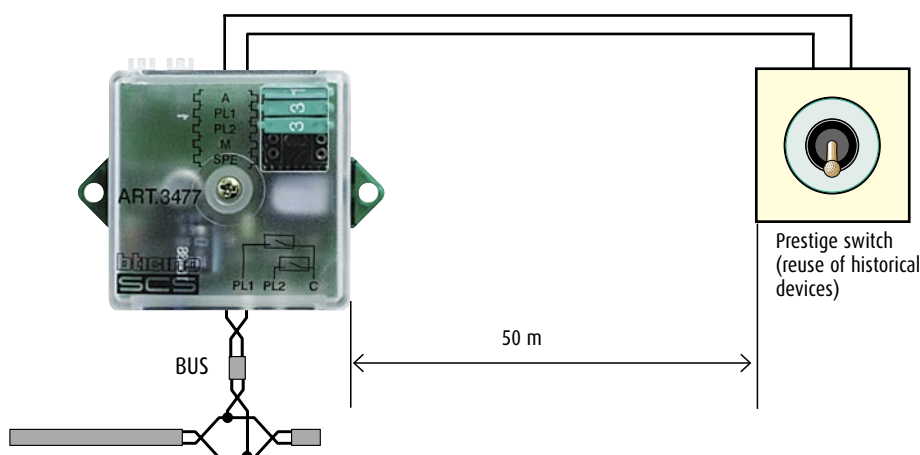


GENERAL RULES FOR INSTALLATION

2-input interface and radio automation

2-INPUT INTERFACE ITEM L/N/NT4688 AND ITEM 3477

The connection between interface and traditional device must not be more than 50 metres.



RADIO DEVICES

Maximum distances between control devices and actuators

The maximum communication distance between the transmitting control devices and the receiving devices is 100 m in free air. This distance decreases if there are dividing walls made of concrete, metal or other material in the environment and if metal front cover plates are used.

Before installing the control device in its position, carry out an operational test by sending a few commands to the associated actuator.



Maximum number of radio control devices associated with each actuator

Each actuator can be controlled by a maximum of 16 radio control devices. The rule applies to all actuators:

- flush-mounting device with 2 LIVING modules.
- flush-mounting device - Basic module
- for DIN rail mounting.



WIRING DIAGRAMS

DIAGRAM 1 SWITCHING A LAMP ON AND OFF

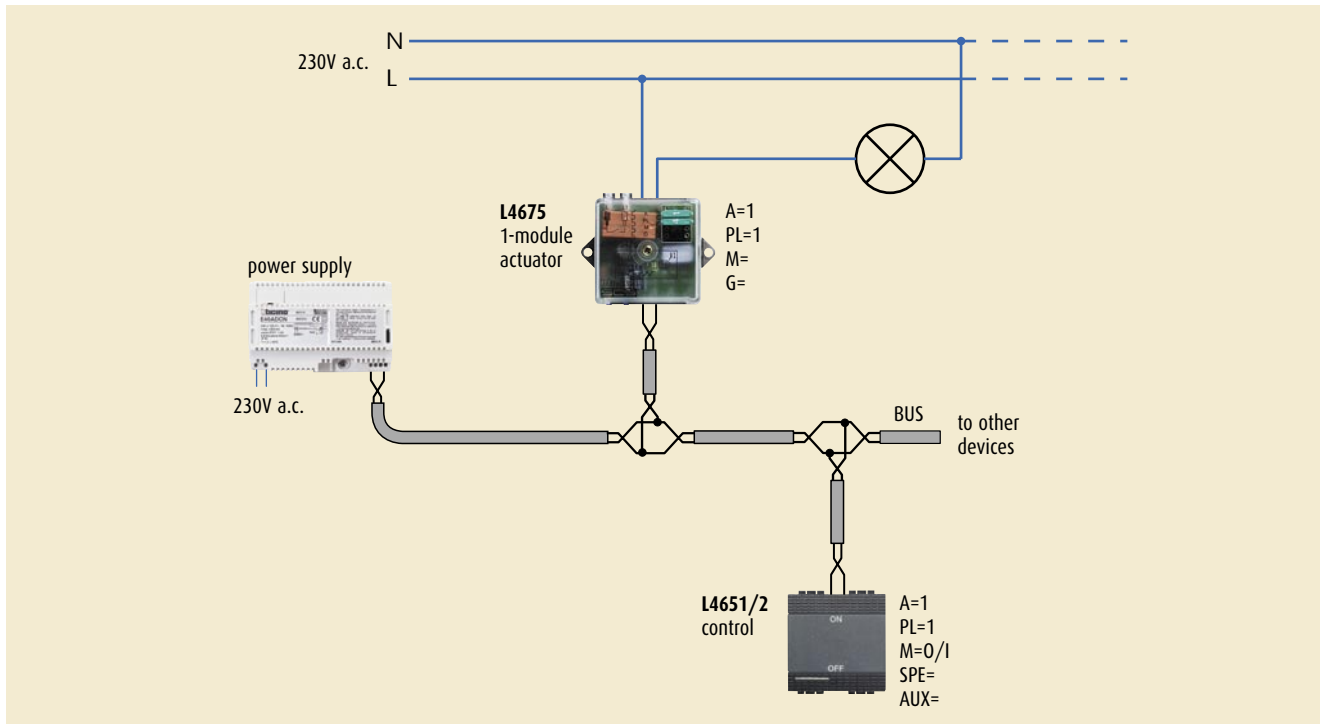
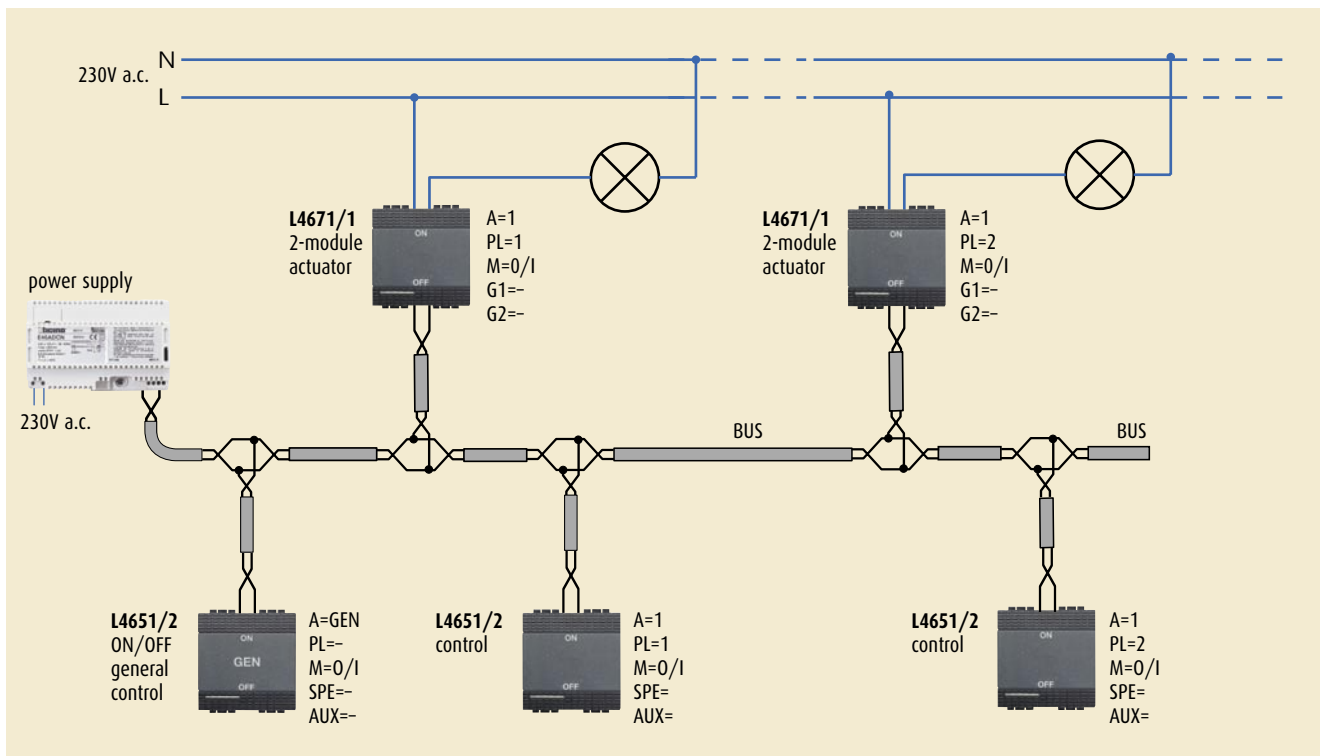


DIAGRAM 2 SWITCHING TWO LAMPS ON AND OFF WITH ON/OFF GENERAL CONTROL



WIRING DIAGRAMS

DIAGRAM 3 MOTOR CONTROL IN ALTERNATED CURRENT FOR ROLLING SHUTTERS, CURTAINS OR MOTORISED ROLLING SHUTTERS

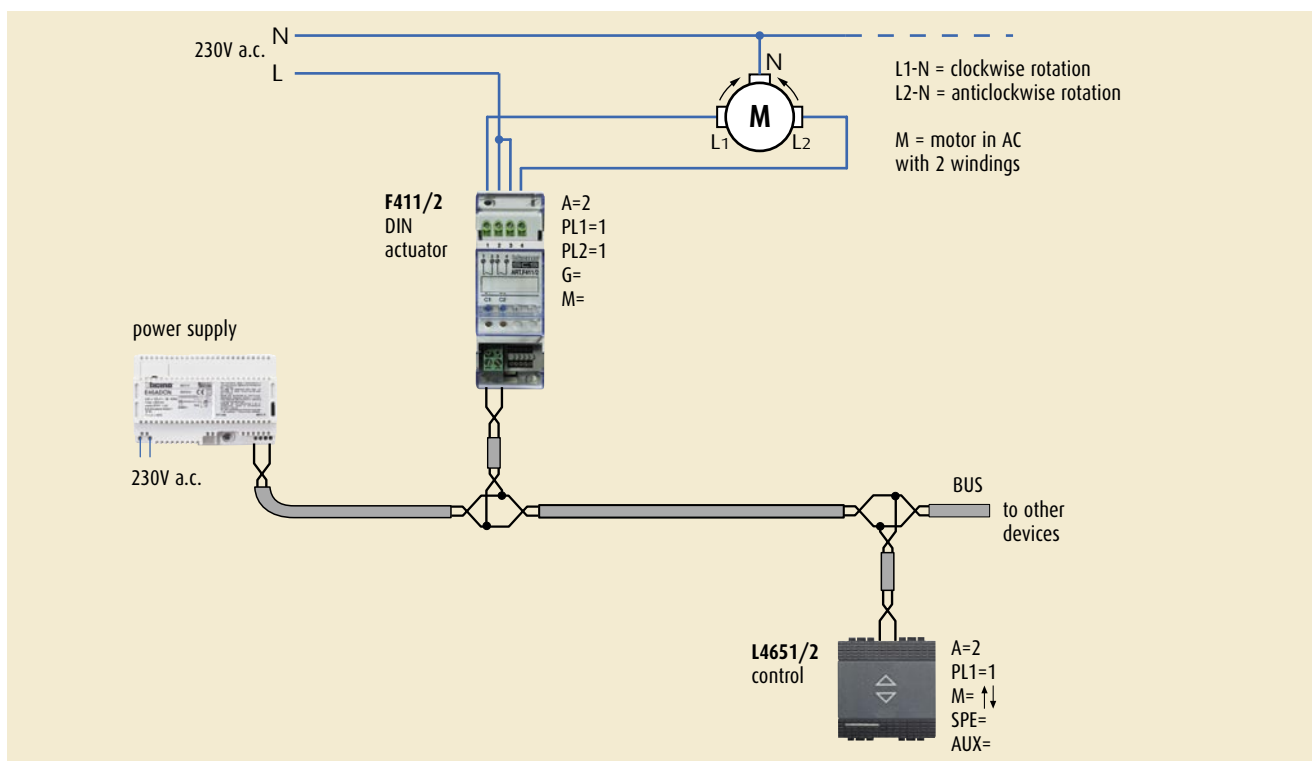


DIAGRAM 4 MOTOR CONTROL IN DIRECT CURRENT FOR MOTORISED CURTAINS (EXAMPLE 24 V D.C.)

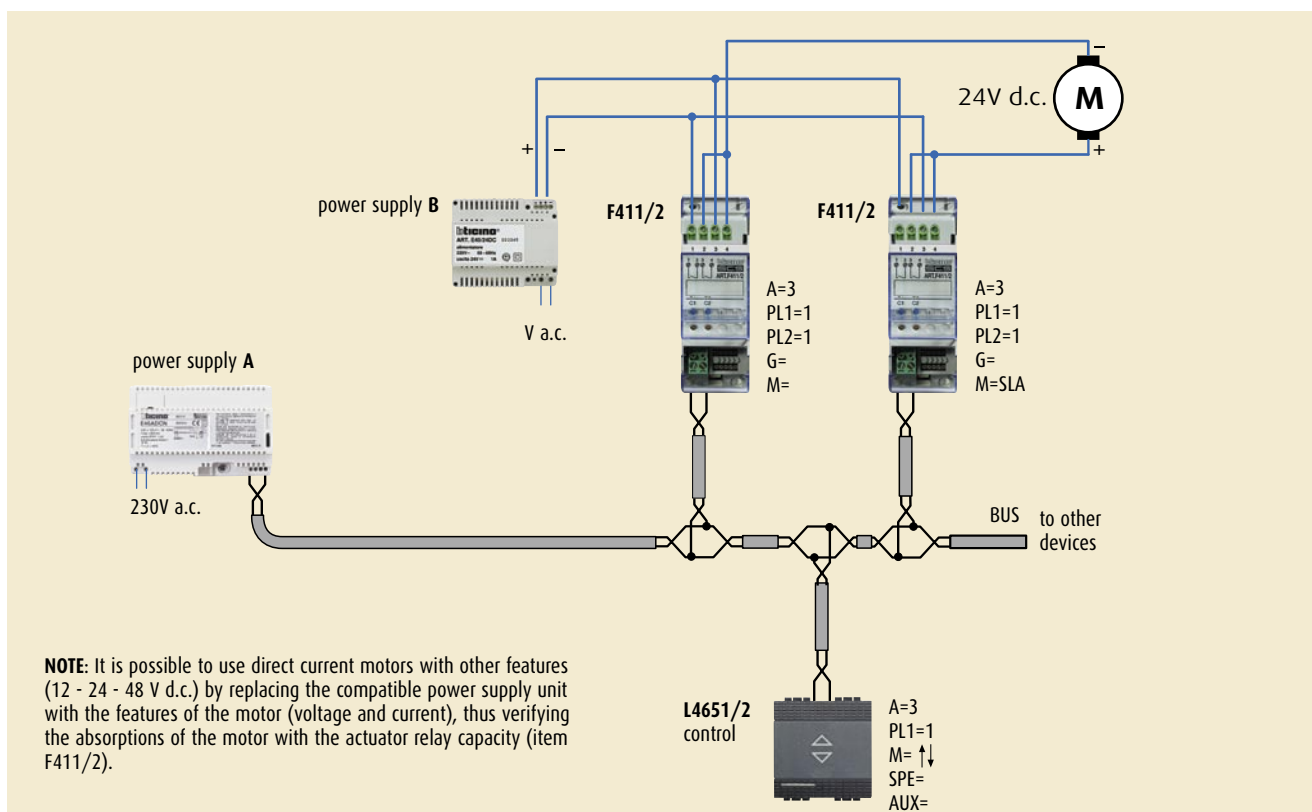


DIAGRAM 5 SWITCHING-ON CONTROL FOR BATHROOM LIGHT AND FAN WITH DELAYED SWITCHING-OFF

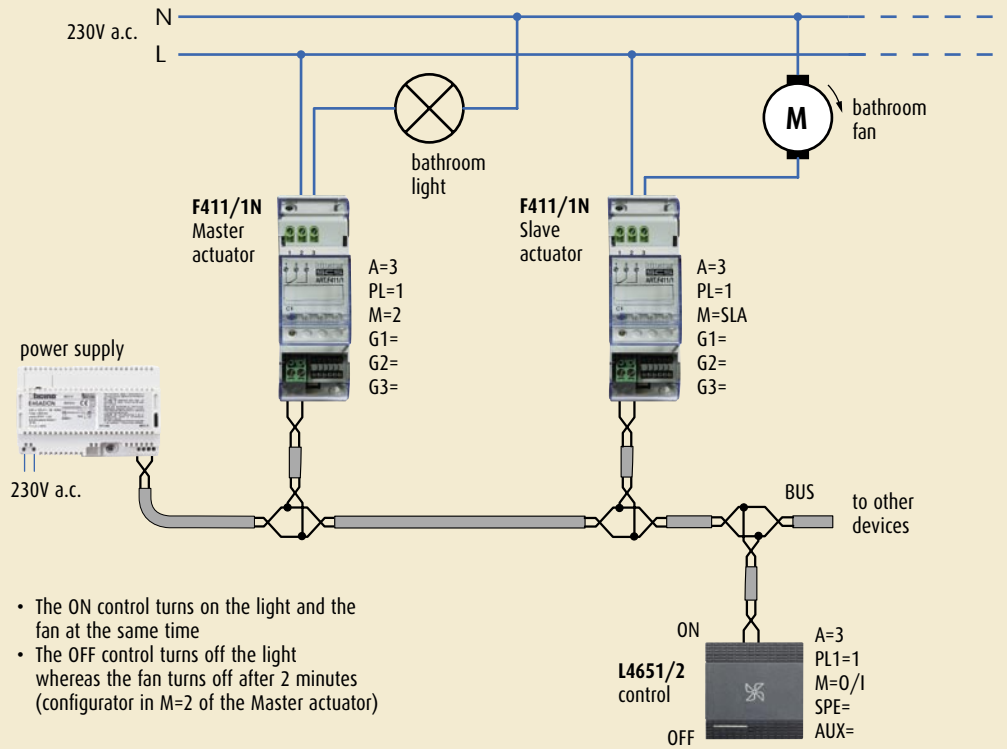
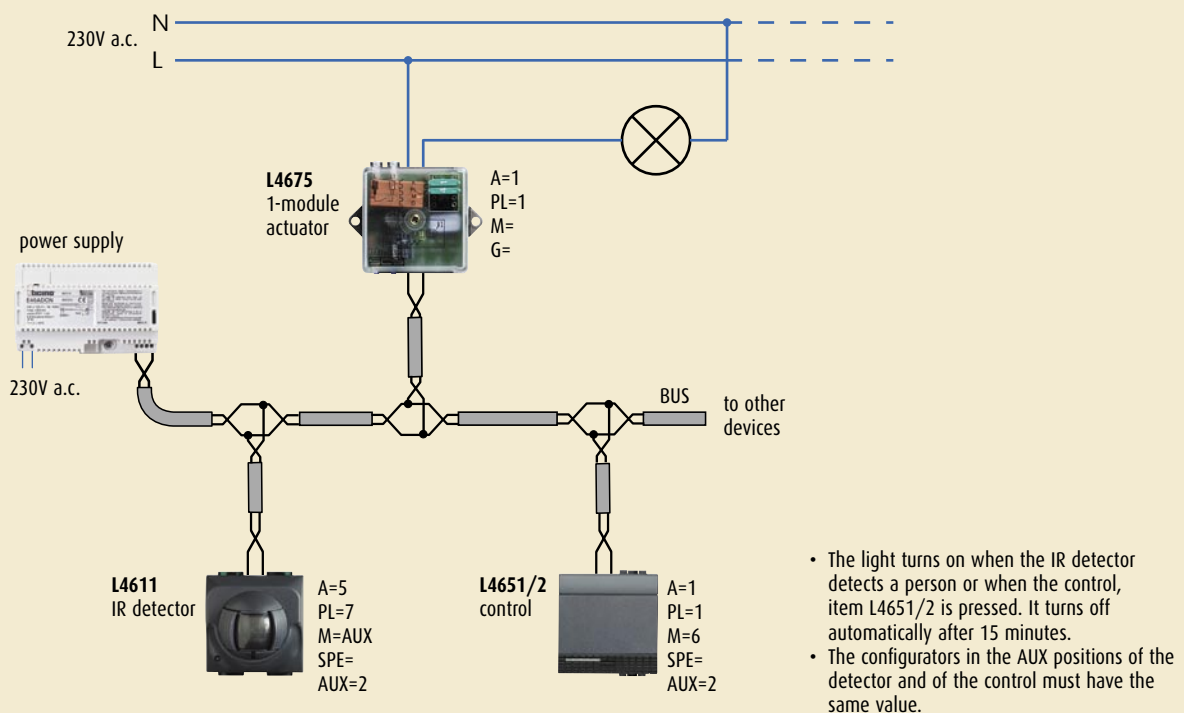
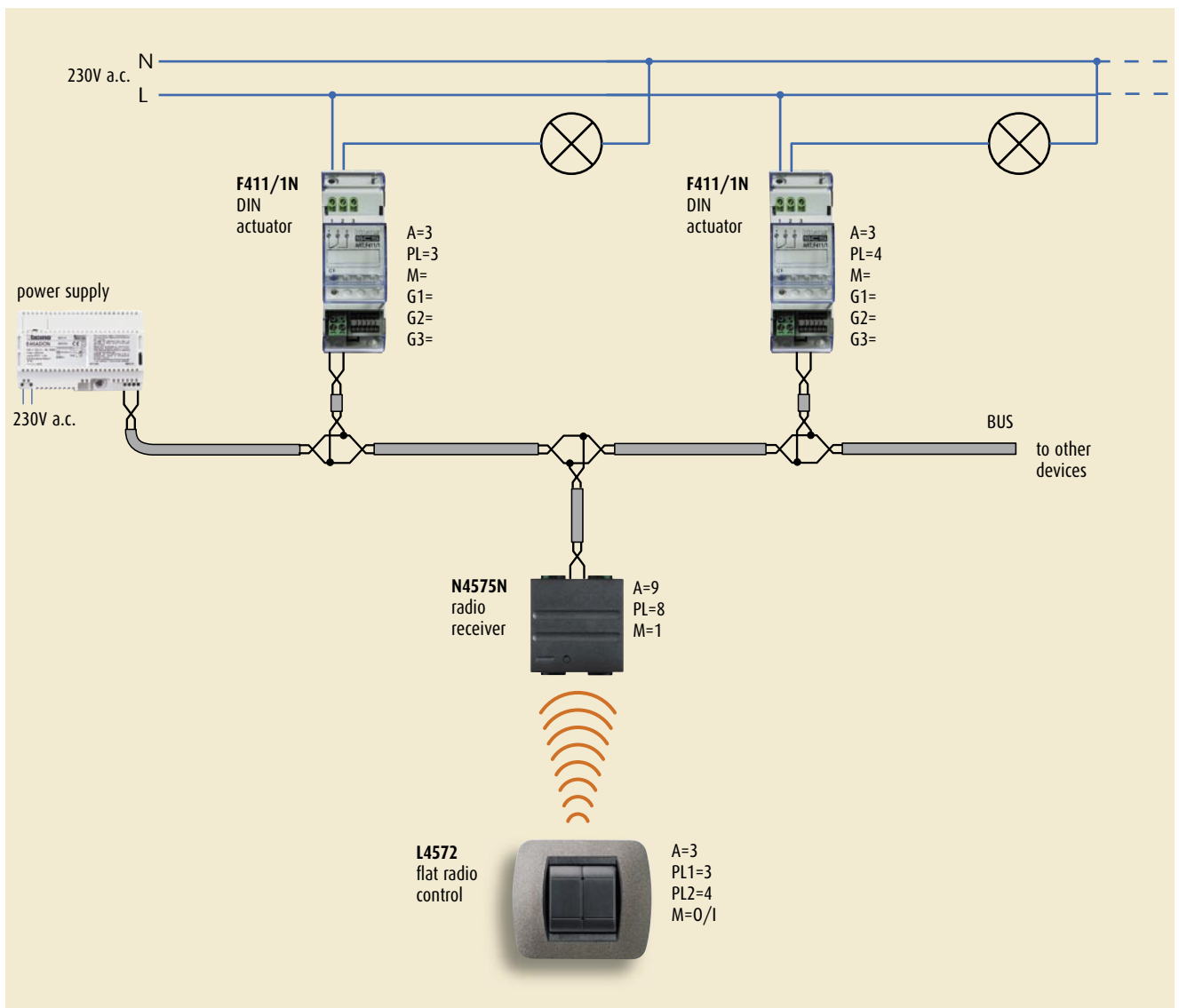


DIAGRAM 6 AUTOMATIC LIGHT SWITCHING-ON AND LOCAL CONTROL OF TIMED ON



WIRING DIAGRAMS

DIAGRAM 7 SWITCHING TWO LAMPS ON AND OFF WITH RADIO CONTROL



NOTE: When the F411/N actuator is replaced with the F414 dimmer actuator, it will also be possible to adjust the brightness of the lamp.

DIAGRAM 8 SWITCHING ON AND OFF AND BRIGHTNESS ADJUSTMENT OF FLUORESCENT LAMPS BY MEANS OF THE "BALLAST"

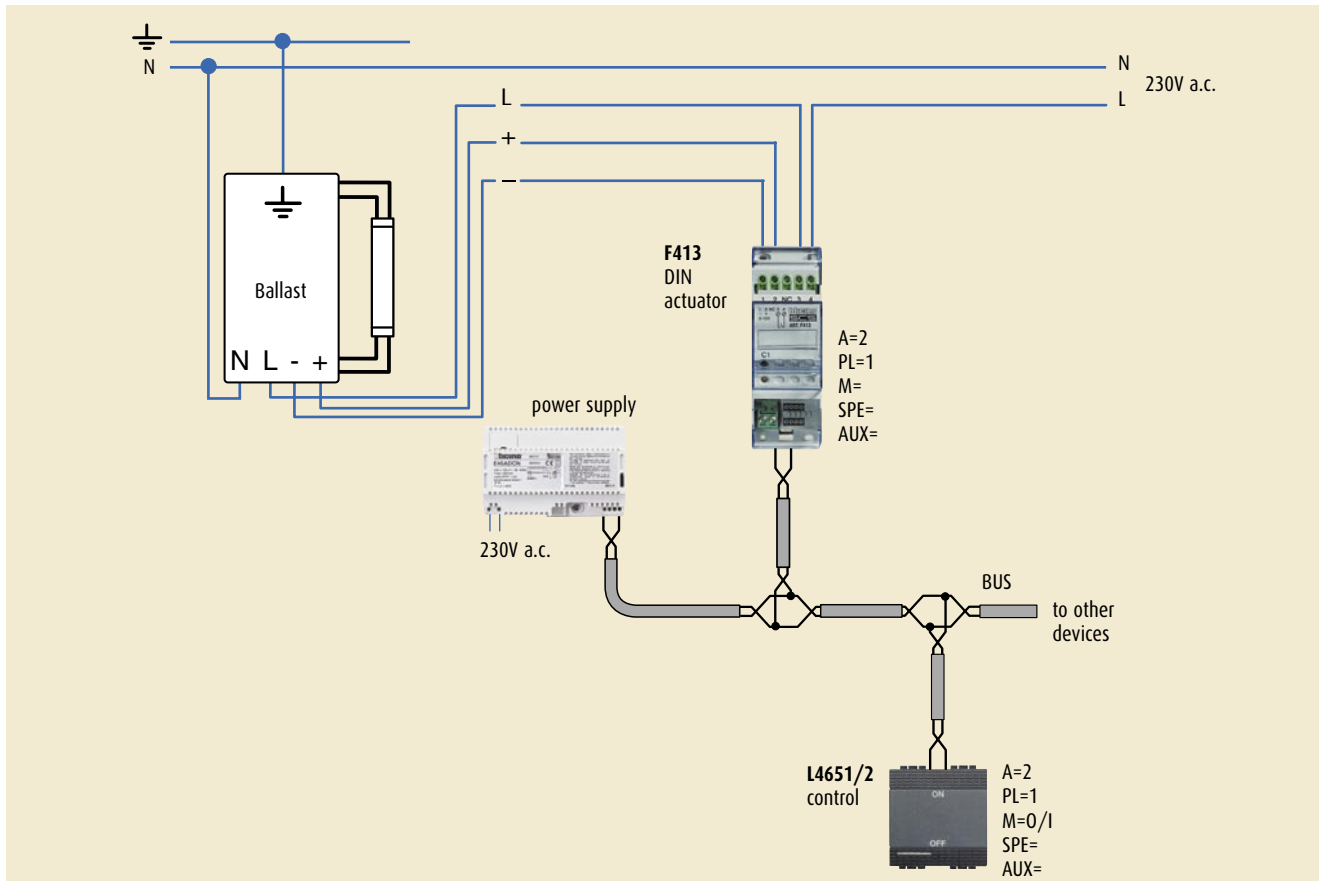
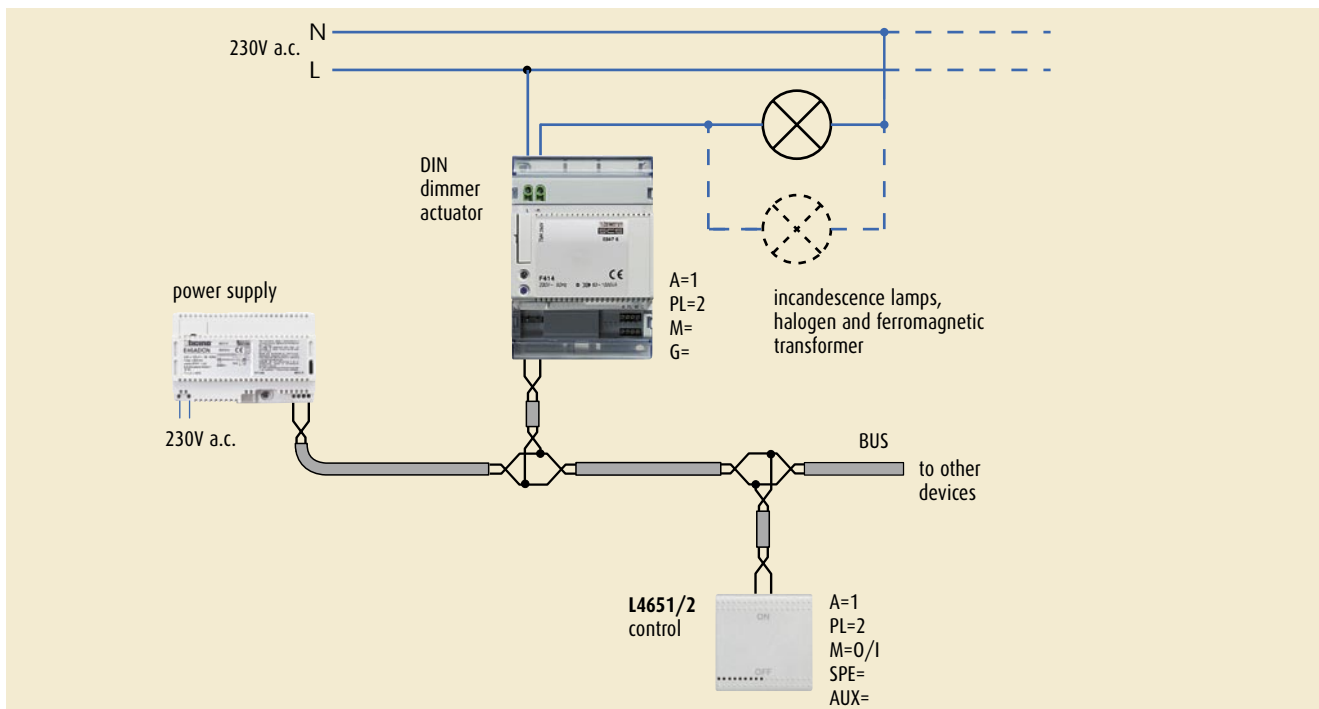


DIAGRAM 9 SWITCHING ON AND OFF AND BRIGHTNESS ADJUSTMENT OF INCANDESCENCE LAMPS, HALOGEN AND FERROMAGNETIC TRANSFORMERS



WIRING DIAGRAMS

DIAGRAM 10 SWITCHING ON AND OFF A LAMP FROM TWO POSITIONS

"Stand alone" applications for radio controls- no BUS system.

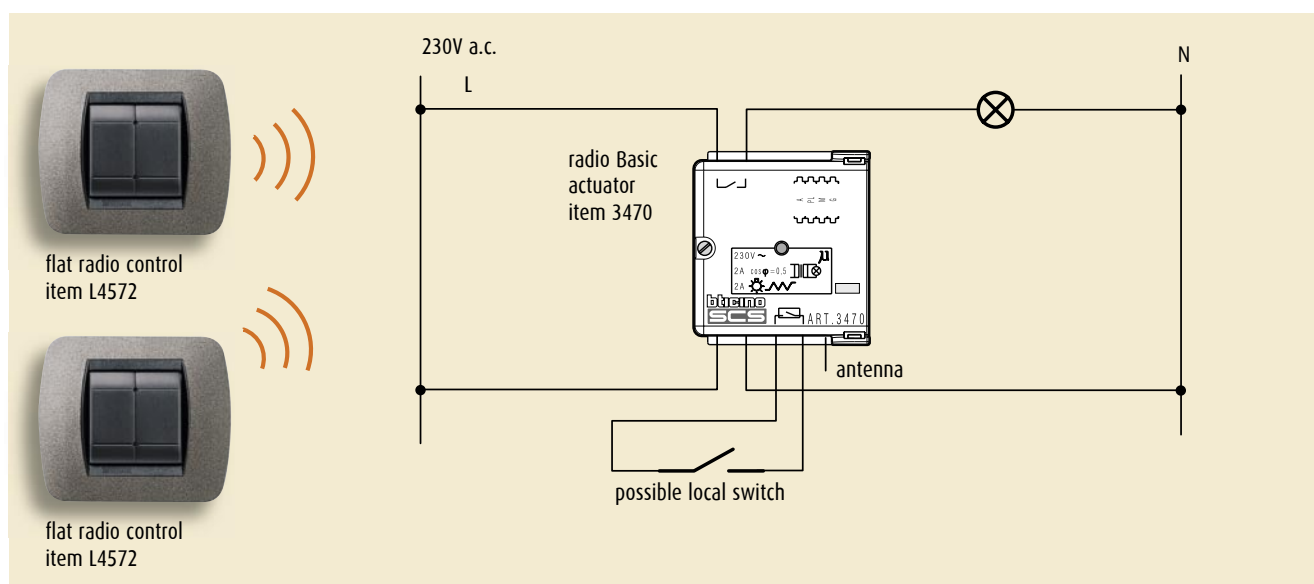


DIAGRAM 11 SWITCHING ON AND OFF A RELAY-CONTROLLED LAMP

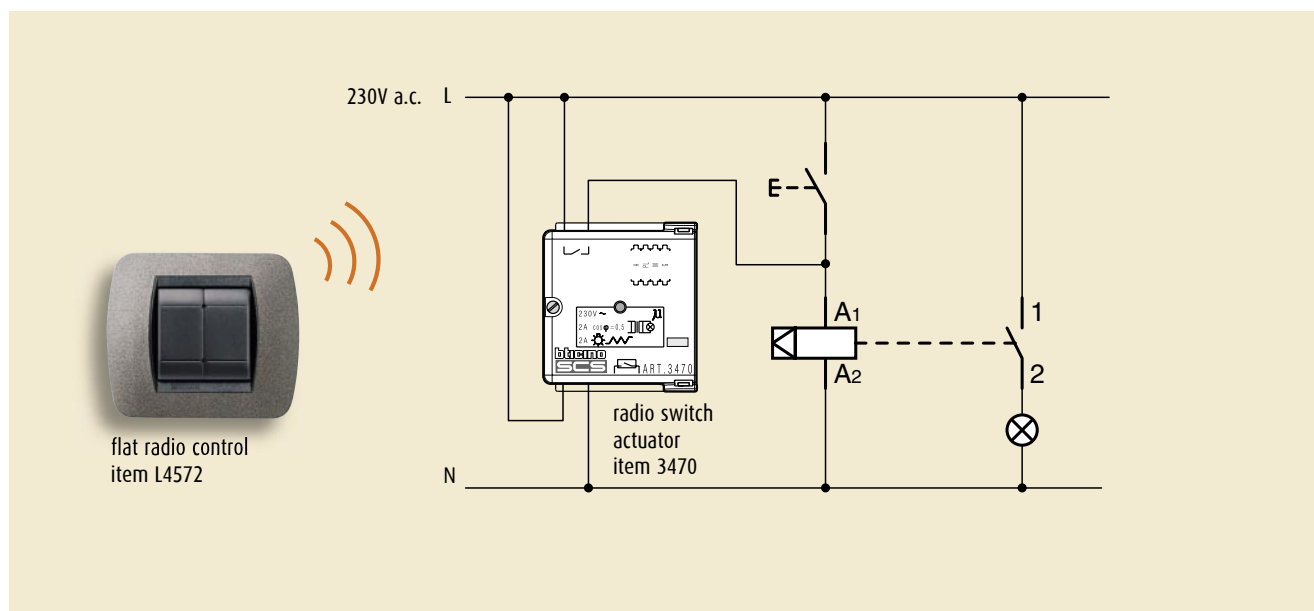


DIAGRAM 12 SWITCHING ON AND OFF A LAMP FROM TWO POSITIONS

The radio two-way switch is installed in lieu of a traditional two-way switch.

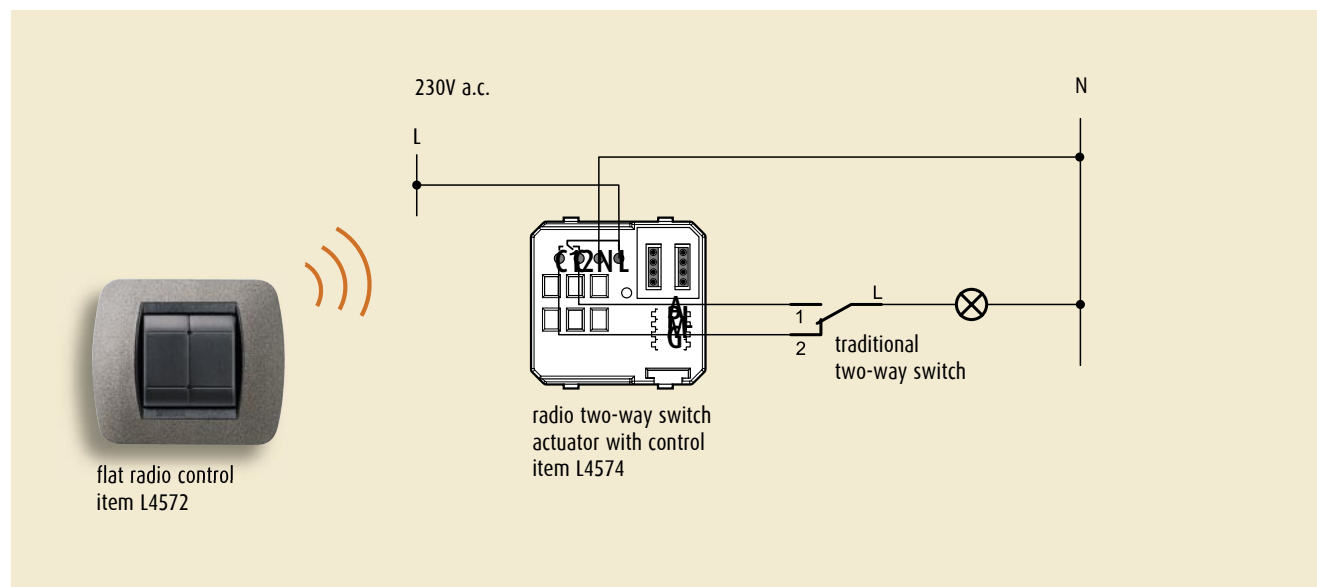
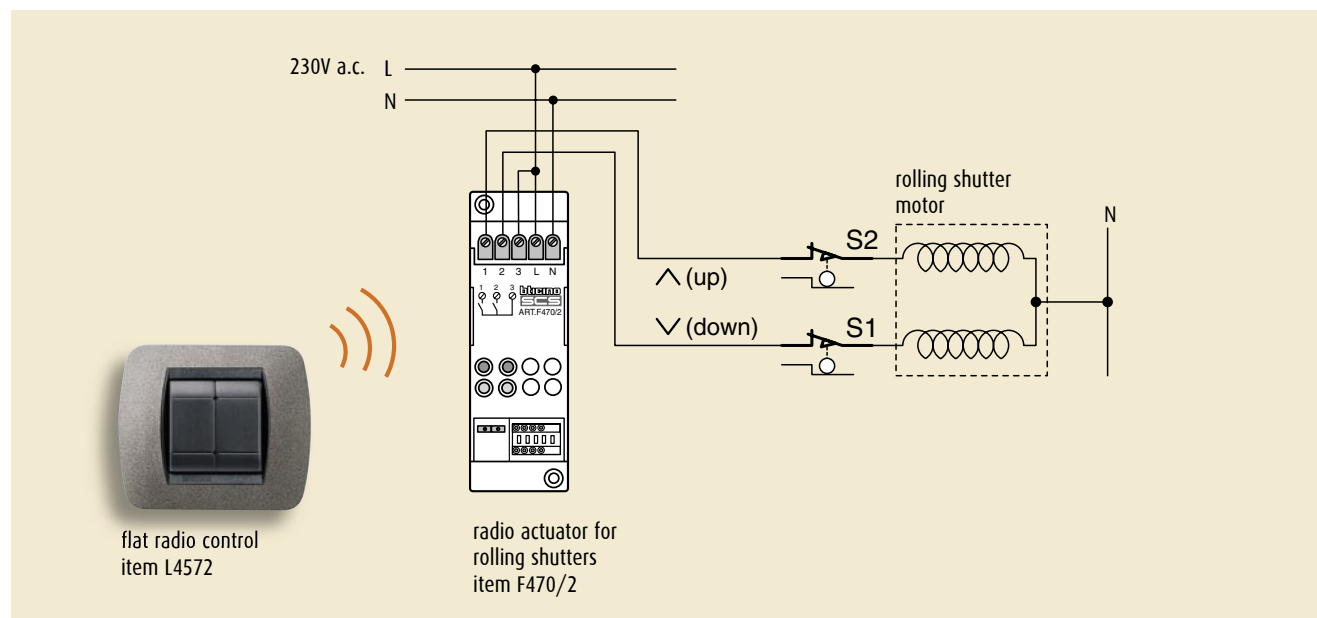


DIAGRAM 13 CONTROL OF THE MOTORISED ROLLING SHUTTERS



WIRING DIAGRAMS

Lighting system and rolling shutter management – 100m² apartment

The following pages describe an Automation system that can be used for controlling the lighting and the rolling shutters in a typical 100m² house made up of a living room, kitchen, study, 2 bathrooms, corridor and two bedrooms.

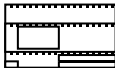
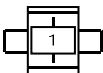
To simplify the description, the system will be represented with three different diagrams:

- for controlling the lighting;
- for controlling the rolling shutters;
- for controlling both the lighting and rolling shutters;

If you do not want to have a complete system, it is possible to use the first two partial diagrams.

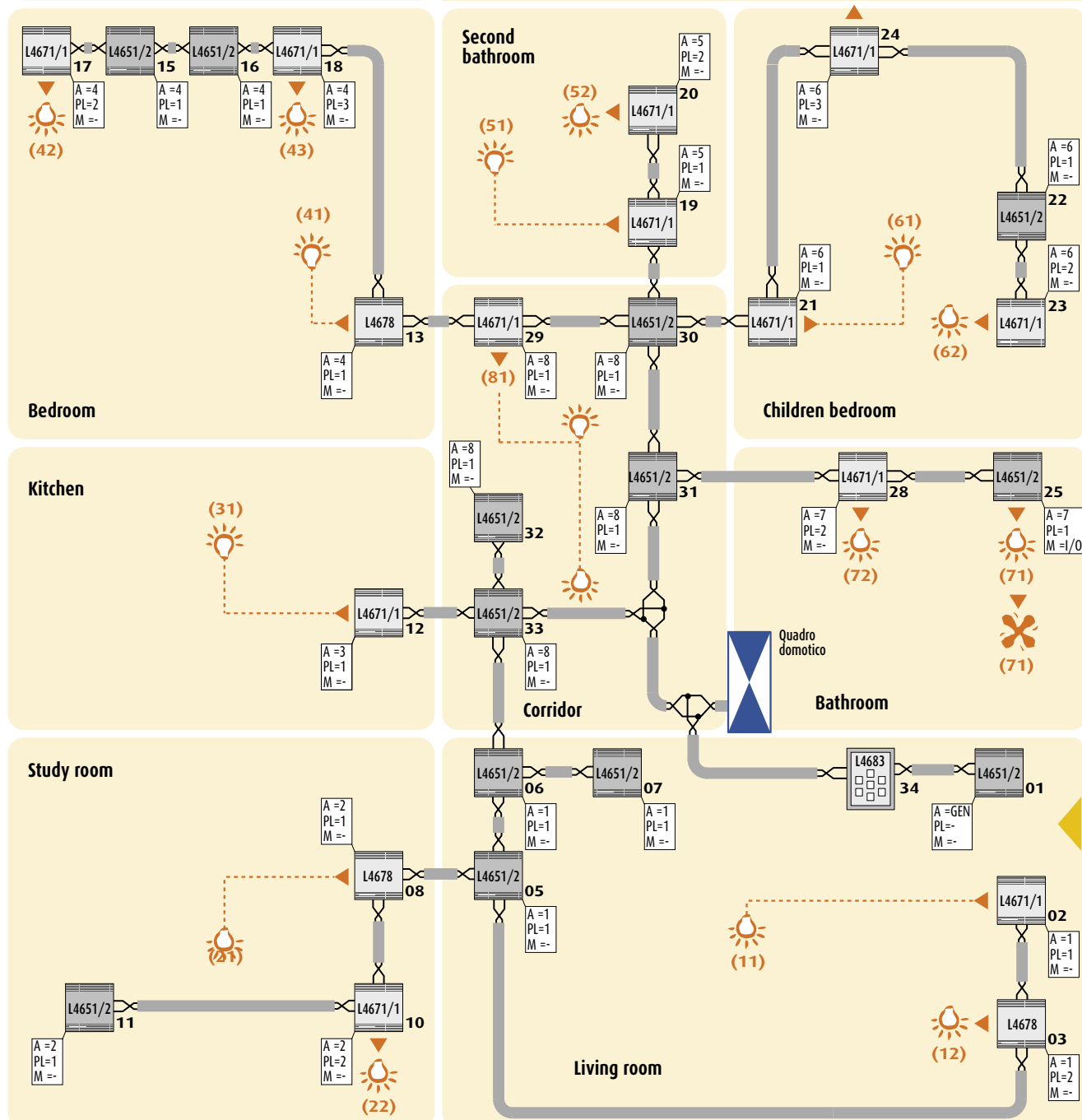
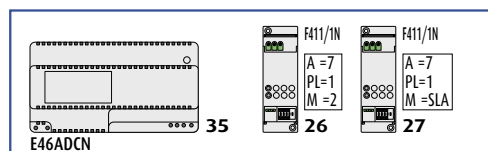
LIGHTING SYSTEM

Distribution components in the single rooms	
Living room	1 lighting general control (1) + 1 Touch Screen control (34) 1 ceiling light point (11) controlled by 4 points (2-5-6-7) 1 light point (12) controlled by 1 point (3) with brightness control
Room/Study	1 ceiling light point (21) controlled by 2 points (8-11) one of which with brightness control 1 light point for bedside table lamp realised with actuator and controlled socket (10-22)
Kitchen	1 ceiling light point (31) controlled by 1 point (12)
Corridor	2 ceiling light points (81) controlled by 5 points (29-30-31-32-33)
Bathroom	1 ceiling light point (71) controlled by 1 point (25/26) with exhaust fan activation (27) 1 wall light point (72) controlled by 1 point (28)
Bedroom	1 ceiling light point (41) controlled by 3 points (13-15-16) one of which with brightness control 2 light points for bedside table lamp realised with actuators and controlled sockets (17-42), (18-43)
Second bathroom	1 ceiling light point (51) controlled by 1 point (19) 1 wall light point (52) controlled by 1 point (20)
Children bedroom	1 ceiling light point (61) controlled by 2 points (21/22) 1 light point for bedside table lamp realised with actuator and controlled socket (23-62)
Balcony	1 ceiling light point (63) with internal control (24)

House automation panel	DIN modules
 1 SCS power supply	8
 2 1-relay DIN actuators	(2 + 2) 4
	Total 12

LIGHTING SYSTEM

House automation panel

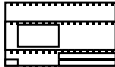



For the electric connection of the actuators Item L4671/1 and Item L4674 to the lamps, see page 76
As an alternative to the control Item L4651/2 it is possible to use the control Item L4652/2.

WIRING DIAGRAMS

ROLLING SHUTTER MANAGEMENT SYSTEM

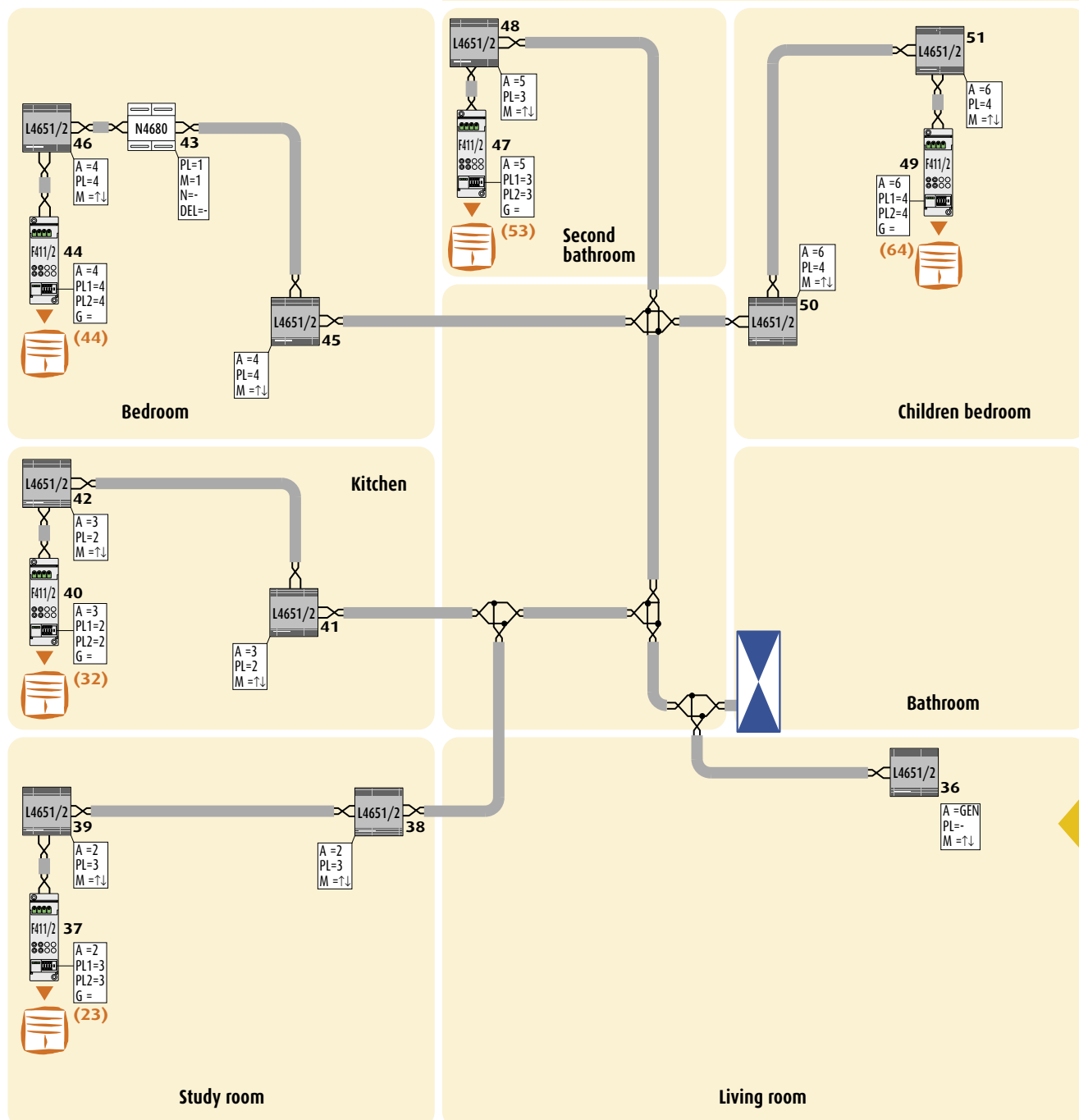
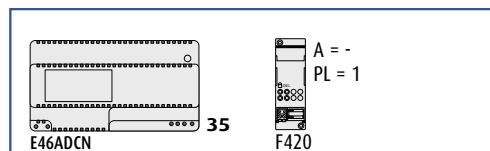
Distribution components in the single rooms	
Living room	1 automation general control (36)
Room/Study	1 motorised rolling shutter (23) with DIN actuator (37), controlled by 2 points (38-39)
Kitchen	1 motorised rolling shutter (32) with DIN actuator (40), controlled by 2 points (41-42)
Corridor	
Bathroom	
Bedroom	1 motorised rolling shutter (44) with DIN actuator (44), controlled by 2 points (45-46) 1 scenario control unit (43)
Second bathroom	1 motorised rolling shutter (53) with DIN actuator (47), controlled by 1 point (48)
Children bedroom	1 motorised rolling shutter (64) with DIN actuator (49), controlled by 2 points (50-51)
Balcony	

	House automation panel	DIN modules
	1 SCS power supply	8
	scenario module	2
Total		10

* DIN actuators are suitable for centralised installations in boards and switchboards; rolling shutters have been installed in the boxes (see system in the picture), thus with the removal of the rear DIN adapter and the front cover to reduce the overall dimensions.
As an alternative, it is possible to use flush-mounting actuators.

ROLLING SHUTTER MANAGEMENT SYSTEM

House automation panel

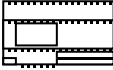
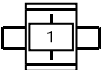


See page 76 for the electrical connection of the actuators, item F411/2, to the rolling shutter motor

WIRING DIAGRAMS

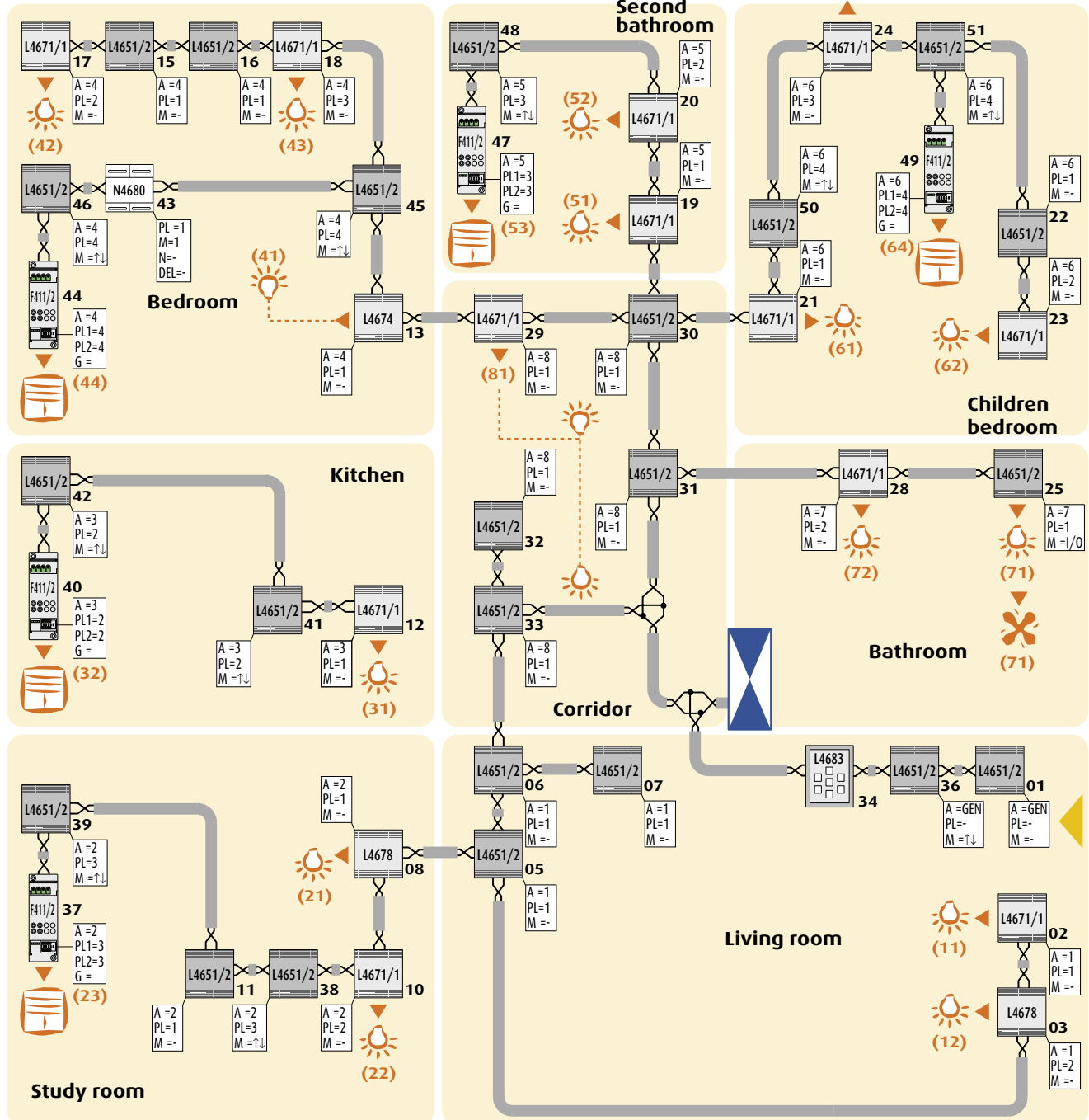
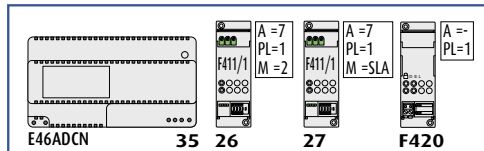
LIGHTING AND ROLLING SHUTTER MANAGEMENT SYSTEM

Distribution components in the single rooms	
Living room	1 lighting general control (1) + 1 automation general control (36) + Touch Screen control (34) 1 ceiling light point (11) controlled by 4 points (2-5-6-7) 1 light point (12) controlled by 1 point (3) with brightness control
Room/Study	1 ceiling light point (21) controlled by 2 points (8-11) one of which with brightness control 1 light point for bedside table lamp realised with actuator and controlled socket (10-22) 1 motorised rolling shutter (23) with DIN actuator (37), controlled by 2 points (38-39)
Kitchen	1 ceiling light point (31) controlled by 1 point (12) 1 motorised rolling shutter (32) with DIN actuator (40), controlled by 2 points (41-42)
Corridor	2 ceiling light points (81) controlled by 5 points (29-30-31-32-33)
Bathroom	1 ceiling light point (71) controlled by 1 point (25/26) with exhaust fan activation (27) 1 wall light point (72) controlled by 1 point (28)
Bedroom	1 ceiling light point (41) controlled by 3 points (13-15-16) one of which with brightness control 2 light points for bedside table lamp realised with actuators and controlled sockets (17-42), (18-43) 1 motorised rolling shutter (44) with DIN actuator (44), controlled by 2 points (45-46) 1 scenario control unit (43)
Second bathroom	1 ceiling light point (51) controlled by 1 point (19) 1 wall light point (52) controlled by 1 point (20) 1 motorised rolling shutter (53) with DIN actuator (47), controlled by 1 point (48)
Children bedroom	1 ceiling light point (61) controlled by 2 points (21/22) 1 light point for bedside table lamp realised with actuator and controlled socket (23-62) 1 motorised rolling shutter (64) with DIN actuator (49), controlled by 2 points (50-51)
Balcony	1 ceiling light point (63) with internal control (24)

	House automation panel	DIN modules
	1 SCS power supply	8
	2 1-relay DIN actuators	(2 + 2) 4
	Total	12

LIGHTING AND ROLLING SHUTTER MANAGEMENT SYSTEM

House automation panel

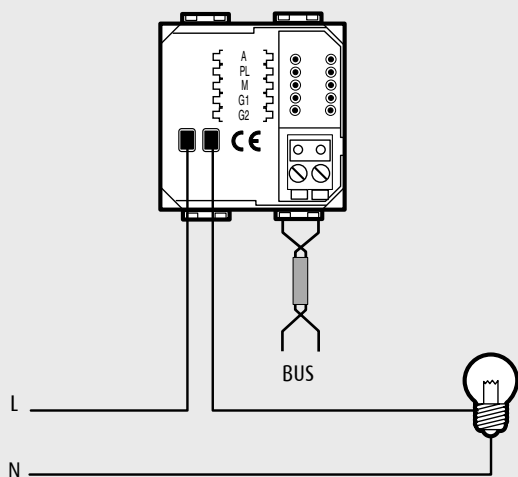


See page 76 for the electrical connection of the actuators, item L4671/1 and item L4678, to the lamps

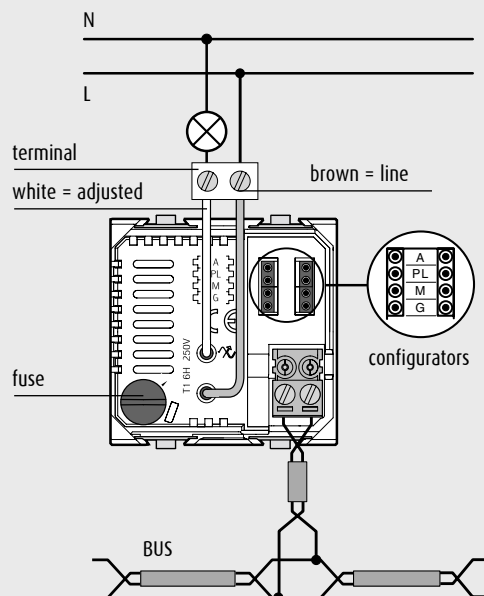
WIRING DIAGRAMS

CONNECTIONS OF THE ACTUATORS IN THE APARTMENT DIAGRAMS

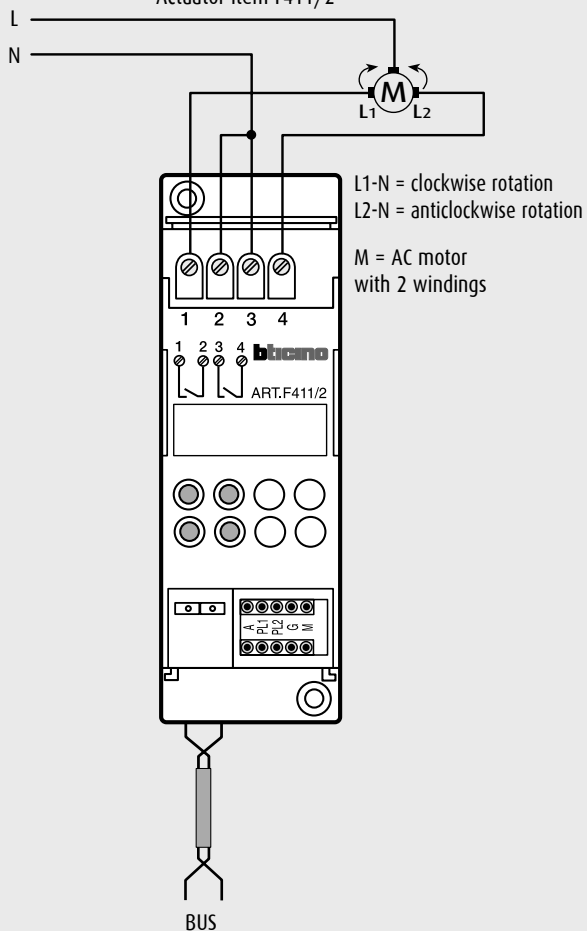
Actuator item L4671/1



Dimmer item L4678



Actuator item F411/2



CONFIGURATION

General description

ACTUATORS: ADDRESS AND TYPE OF CONTROL

To understand the addressing logic it is useful to define some terms which will occur frequently in this text.

Room (A)

Set of devices belonging to a logical area (in a home, for example, the living room, the bedroom, etc.).

Light Point (PL)

Numeric identification of the single actuators inside the Room.

Group (G)

Set of devices also belonging to different rooms but which must be controlled at the same time (e.g. the rolling shutters of the North side of the home, the lighting of the day area, etc.).

Actuator address

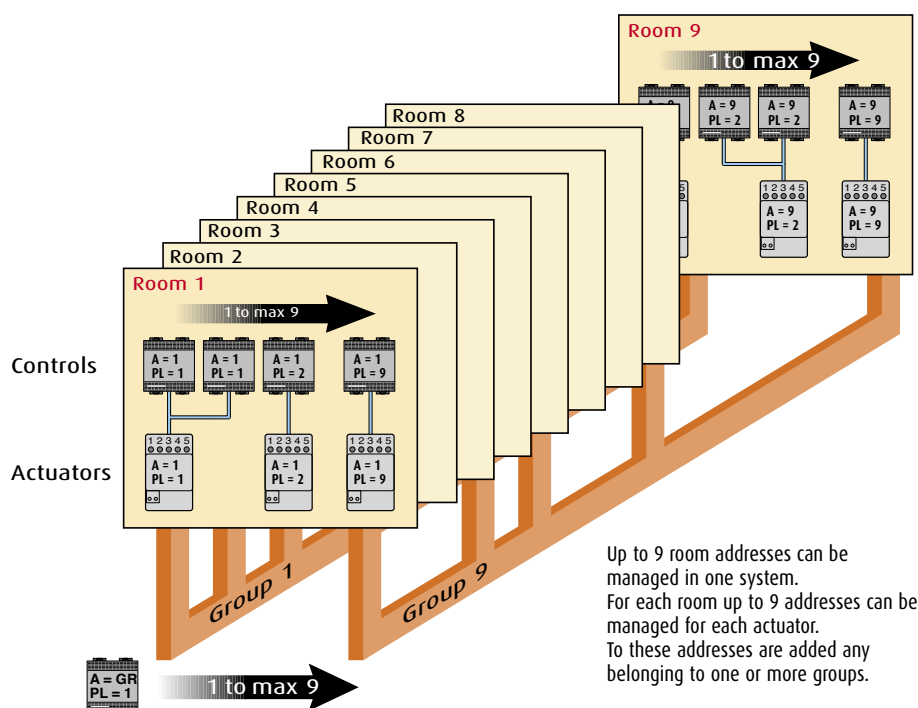
The address of each actuator is defined uniquely by assigning the numeric configurators 1 to 9 in positions A (Room) and PL (Light Point inside the Room).

A maximum of 9 addresses can be defined for each room; a maximum of 9 rooms can be defined in a system.

The group of belonging is defined by inserting a third numeric configurator in the housing identified with G (Group).

Some actuators have several G positions (G1, G2 and G3) as they can belong to several different groups at the same time.

Example: The actuator configured with A = 1, PL = 3 e G = 4 is device 3 of room 1 belonging to group 4.



Up to 9 room addresses can be managed in one system. For each room up to 9 addresses can be managed for each actuator. To these addresses are added any belonging to one or more groups.

LOGIC EXTENSION

for special applications such as extensive systems in houses or service/ industrial rooms, where the use of many devices may exceed the configuration limits mentioned above (9 addresses for each of the 9 rooms planned), interface item F422 can be used, configured in the "logic expansion" mode.

This mode can make an extension system made up of several individual systems, each of which may thus use all the 81 addresses, connected together on a single bus with riser function. A typical use may be the house distributed over several floors: a system can be made for each floor and they can be connected by means of interface item F422.

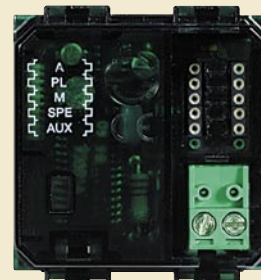
CONFIGURATION

General description

CONTROLS: ADDRESSES AND TYPE OF CONTROL

The control devices also have positions A and PL to define the addresses of the devices which receive the command (actuators).
For these positions there are numeric configurators with graphics which enable the device to send the command with the various ways listed in the table below.

Control



Device address mode

Type of command	Control device		Actuator device	
	configurator housing	configurator value	configurator housings	configurator value
Point-point	A	1÷9	A	1÷9
	PL	1÷9	PL	1÷9
Room	A	AMB	A	1÷9
	PL	1÷9	PL	1÷9
Group	A	GR	G1	1÷9
	PL	1÷9	G2	1÷9
			G3	1÷9
General	A	GEN		
	PL	—		

EXAMPLES OF CONFIGURATION

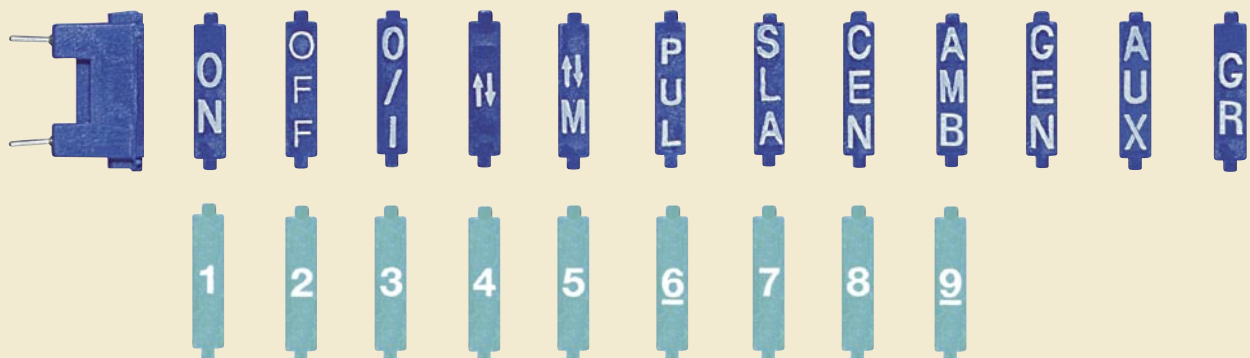
Point-point command

If the control is configured with A = 2 and PL = 3, this device sends the command to the actuator identified with A = 2 and PL = 3.

Group control

If the control is configured with A = GR and PL = 1, this device sends the command to the actuator identified with G = 1 (thus belonging to group 1).

OVERVIEW OF THE CONFIGURATORS



ADDRESSING LEVELS

For a better understanding of the concepts described in the previous page, the four addressing modes are described below.

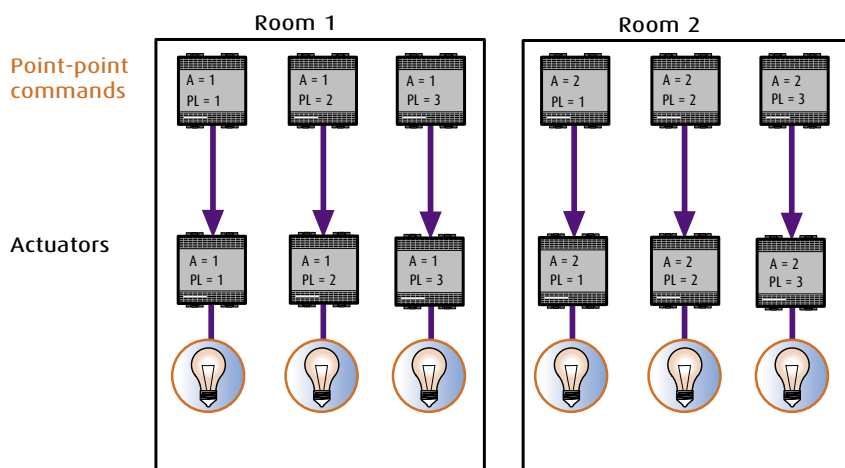
Point-point command

Direct command to one actuator identified by a "room number" and a "light point number".

Control device: A = n* PL = n*

Actuator: A = n* PL = n*

Example: command for a single load (lamp, fan, rolling shutter, etc.)



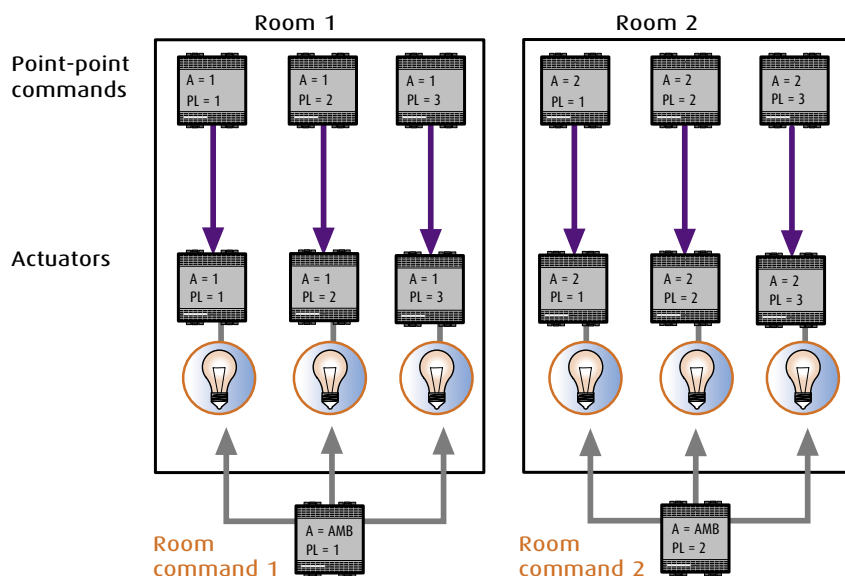
Room command

Direct command to all the actuators identified by the same room number.

Control device: A = AMB PL = n*

Actuator: A = n* PL = n*

Example: commands for all the window and door frames of a room



* n = any numeric configurator from 1 to 9

CONFIGURATION

General description

ADDRESSING LEVELS

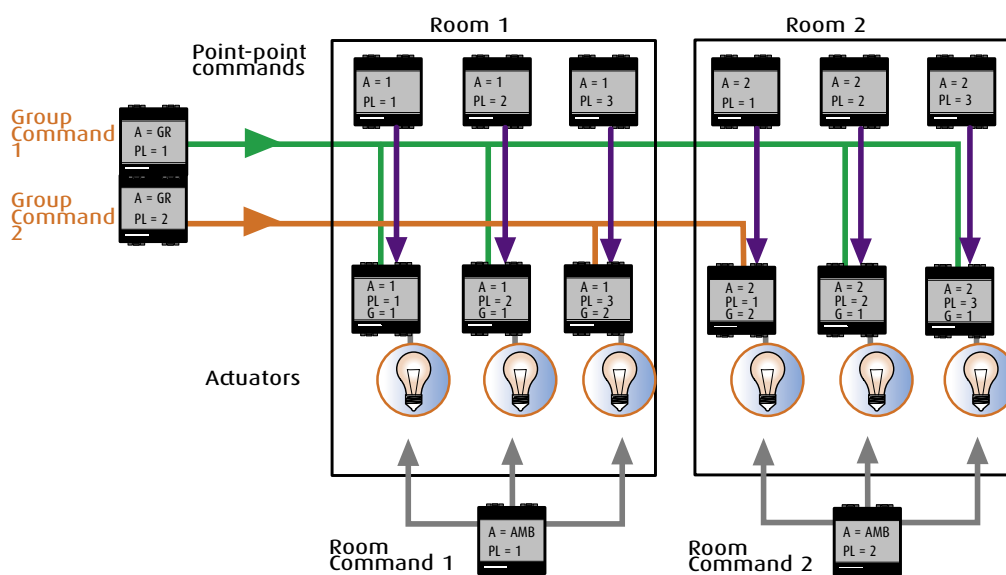
Group control

Direct command to all the actuators which perform particular functions even if they belong to different rooms and are identified by the same "group number".

Control device: A = GR PL = n*

Actuator: A = n* PL = n* G = n*

Example: command of all the lamps of a floor, on the North side of the building



General command

Direct command to all the system actuators.

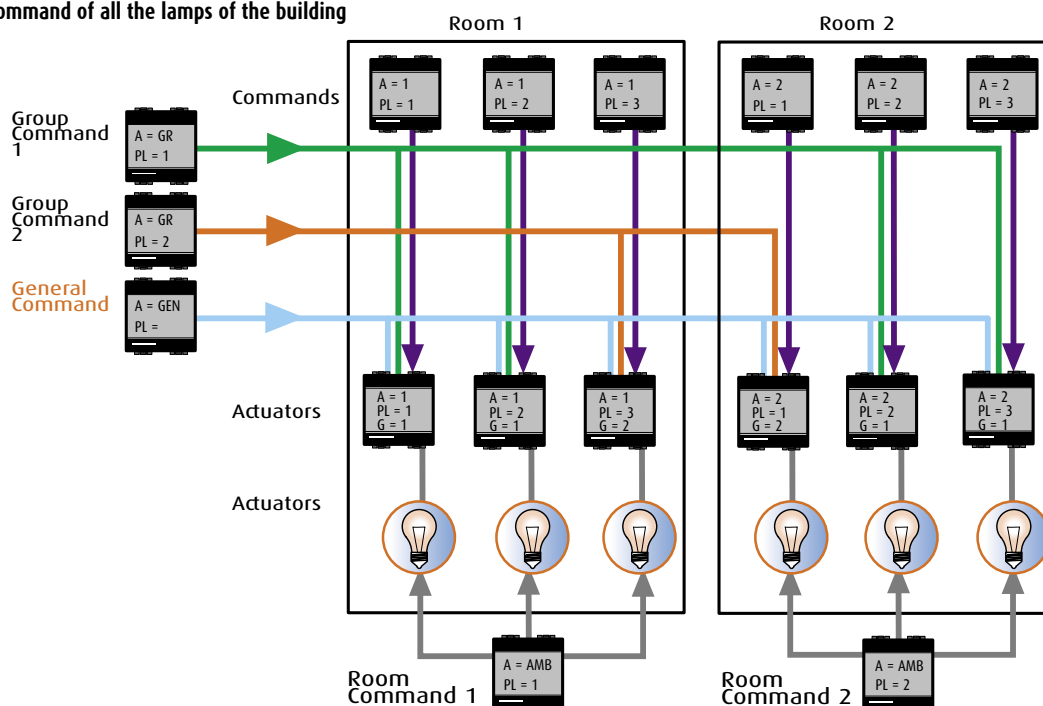
Control device:

A = GEN PL = /

Actuator:

A = n* PL = n* G = n*

Example: command of all the lamps of the building



n* = any numeric configurator from 1 to 9

EXAMPLES OF ADDRESS CONFIGURATION

The drawing shows two environments of a building with 6 lamps (3 for each environment). Each actuator is identified by three numbers: Environment number (A), progressive number of the device (PL) and the Group (G) it belongs to.

The control devices are instead marked by two configurators in positions A and PL which specify the actuators which will receive the command (one only, one group or several actuators of a room).

Point-to-point control

Control 1 (A = 1, PL = 1) controls actuators 1 (A = 1, PL = 1 and G = 1). In the same way control 2 (A = 1, PL = 2) controls actuator 2 (A = 1, PL = 2 and G = 1) etc..

Room control

Room control 1 (A = ROOM, PL = 1) controls actuators 1, 2 and 3 marked with A = 1. In the same way Room control 2 (A = ROOM, PL = 2) controls actuators 4, 5 and 6 marked with A = 2.

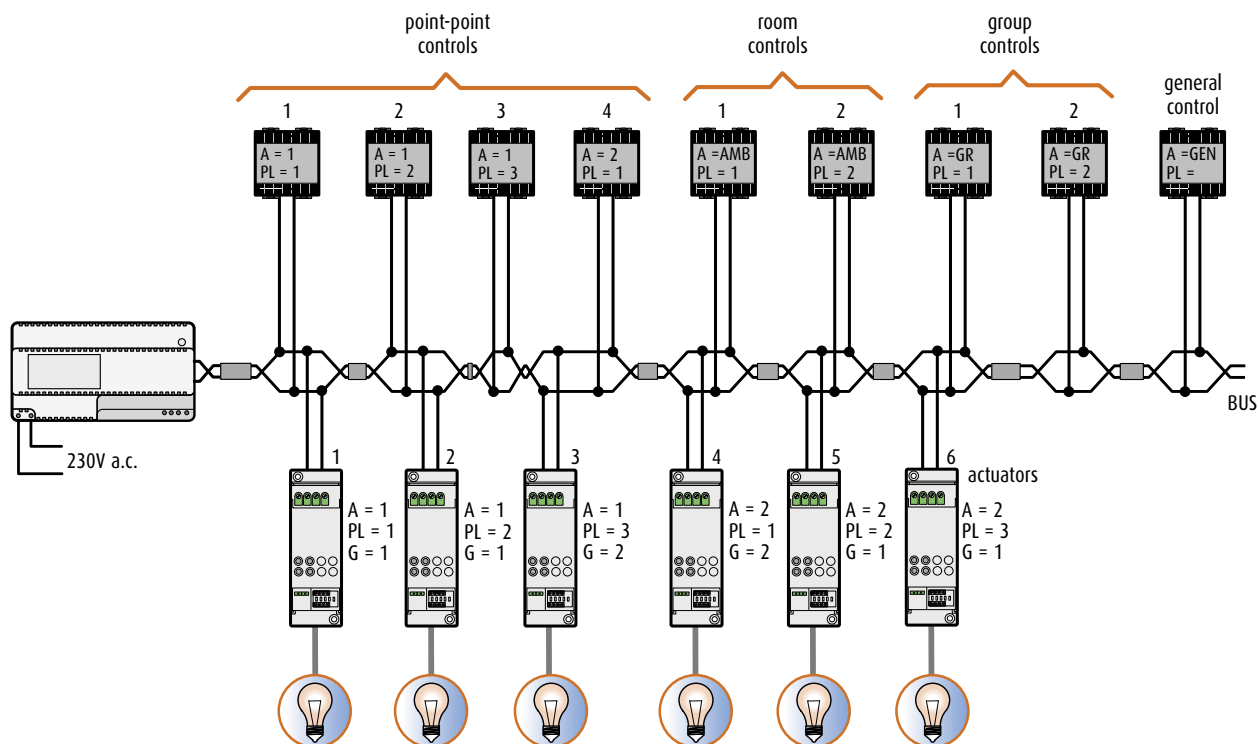
Group control

The two Group controls can manage some lamps of room 1 and others of room 2. In fact the group control 1 marked with A = GR and PL = 1 controls actuators 1, 2, 5 and 6 marked with G = 1. In the same way group control 2 (A = ROOM, PL = 2) controls actuator 3 and 4.

General control

The device identified A = GEN and PL = - (no configurator) sends a general command to all the actuators in the system.

controls



CONFIGURATION

General description


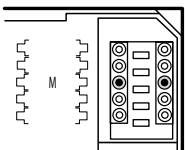
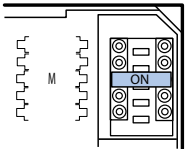
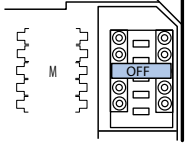
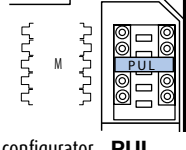

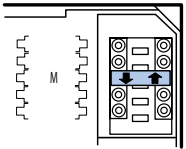
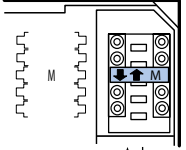
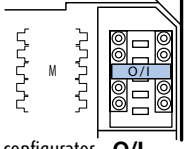
MAIN CONTROL OPERATING MODES

The devices in the automation system can perform different functions, such as setting the brightness, switching lamps on/off or opening/closing rolling shutters.

The function performed, i.e. what the device **must do**, is defined by putting

configurators into the housings marked with **M** of the control devices and completing the devices with keys and key covers (if the devices are flush mounted). The table below lists the various operating modes as a function of the configurator and type of key cover used in the device.

Table

Key covers	Configurator (M) value	Function performed
 <p>1 function</p>	 <p>no configurator</p>	<p>Cyclical ON-OFF command Pressing the device used with relay actuators several times on the key covers sends the ON and OFF command alternately. With dimmer actuators keeping the pushbutton pressed adjusts the load power.</p>
	 <p>configurator ON</p>	<p>ON command On pressing the key cover the device sends the ON command.</p>
	 <p>configurator OFF</p>	<p>OFF command On pressing the key cover the device sends the OFF command.</p>
	 <p>configurator PUL</p>	<p>Monostable ON-OFF command (pushbutton) This mode can perform an ON/OFF command similar to the command of a traditional point-point pushbutton, thus intended just for one address.</p>
 <p>2 functions</p>	 <p>configurator ↑↓</p>	<p>Bistable command with hold (UP-DOWN for rolling shutters). By pressing the key cover (lower or upper) quickly it sends the UP-DOWN command for a rolling shutter motor. After the command has been given, pressing the lower or upper key cover again stops the rolling shutter in the position required.</p>
	 <p>configurator ↑↓M</p>	<p>Monostable command (UP-DOWN for rolling shutters). The device sends an UP-DOWN command for a rolling shutter motor as long as the lower or upper key cover is pressed. When the key cover is released the motors STOPS.</p>
	 <p>configurator O/I</p>	<p>ON/OFF command Used with relay actuators, when the upper key cover is pressed the device sends an ON command; when the lower key cover is pressed the device sends an OFF command. With dimmer actuators pressing the upper and lower key cover adjusts the load power.</p>

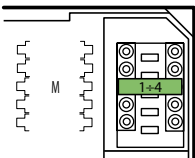
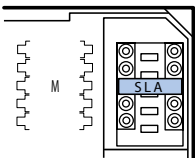
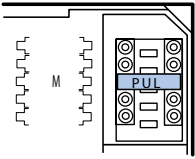
AUXILIARY COMMANDS

Some special functions can be performed using a resource common to all the SCS systems: the auxiliary channels. There are 9 transmission channels on which commands can be sent. Commands can be sent on auxiliary channels from any control device, configuring A = AUX and PL = 1 to 9. The configurator in LP specifies on which auxiliary channel the command must be

transmitted, while the mode of operation is specified by configurator M as for all the other commands. The actuators do not recognise these commands directly; the special command which translates the auxiliary into a command which the actuators can perform must therefore be used.

MAIN ACTUATOR OPERATION MODES

The actuators can be configured for the following operating modes:

Table	
Configurator (M) value	Function performed
 configurator 1 to 4	Special functions This mode can perform special functions (OFF delayed, STOP timed) on the basis of the type of actuator used (single or double) and the numeric configurator inserted.
 configurator SLA	Slave This mode can perform a command with two or more actuators. In practice the actuators with the SLA (Slave) configurator repeat the function performed by another actuator which acts as Master. The actuators must have the same addresses and must be of the same type (either all light actuators or all rolling shutter actuators).
 configurator PUL	PUL The device does not operate with the Room and General commands.