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MH06AM/GB

My Home Automation

MY HOME

Automation

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TECHNICAL GUIDE 06

22°C

TSH 250V

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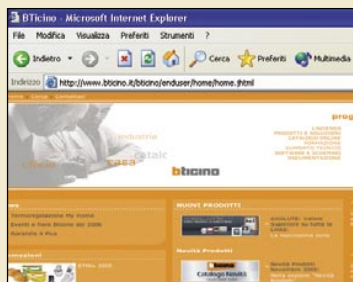230V~ 50Hz

MH06AM/GB

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www.bticino.it

E-mail:
bticino.international@bticino.it

To send a free fax forward it to

+39.02.3480708

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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.
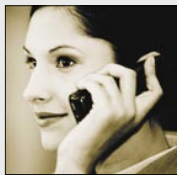
MY HOME

MY HOME WEB
• Services to control and manage the home at a distance
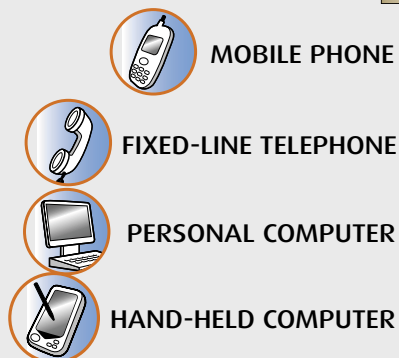
CONTROL
• Web server (audio/video and GSM)
• Burglar-alarm control unit with Dialling device
• Telephone switchboard
• GSM

MOBILE PHONE

FIXED-LINE TELEPHONE

PERSONAL COMPUTER

HAND-HELD COMPUTER

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.

- Temperature control
- Energy management
- Activating the load timetable

- Burglar-alarm
- Remote assistance
- Technical alarms
- Home CCTV

SAVING

SAFETY

COMMUNICATION

HOME

COMFORT

- 2-wire digital door entry and video door entry systems
- Pabx switchboards

- Sound system
- Automation of lights and scenarios
- Automation of shutters
- Automatic switchboard rearming
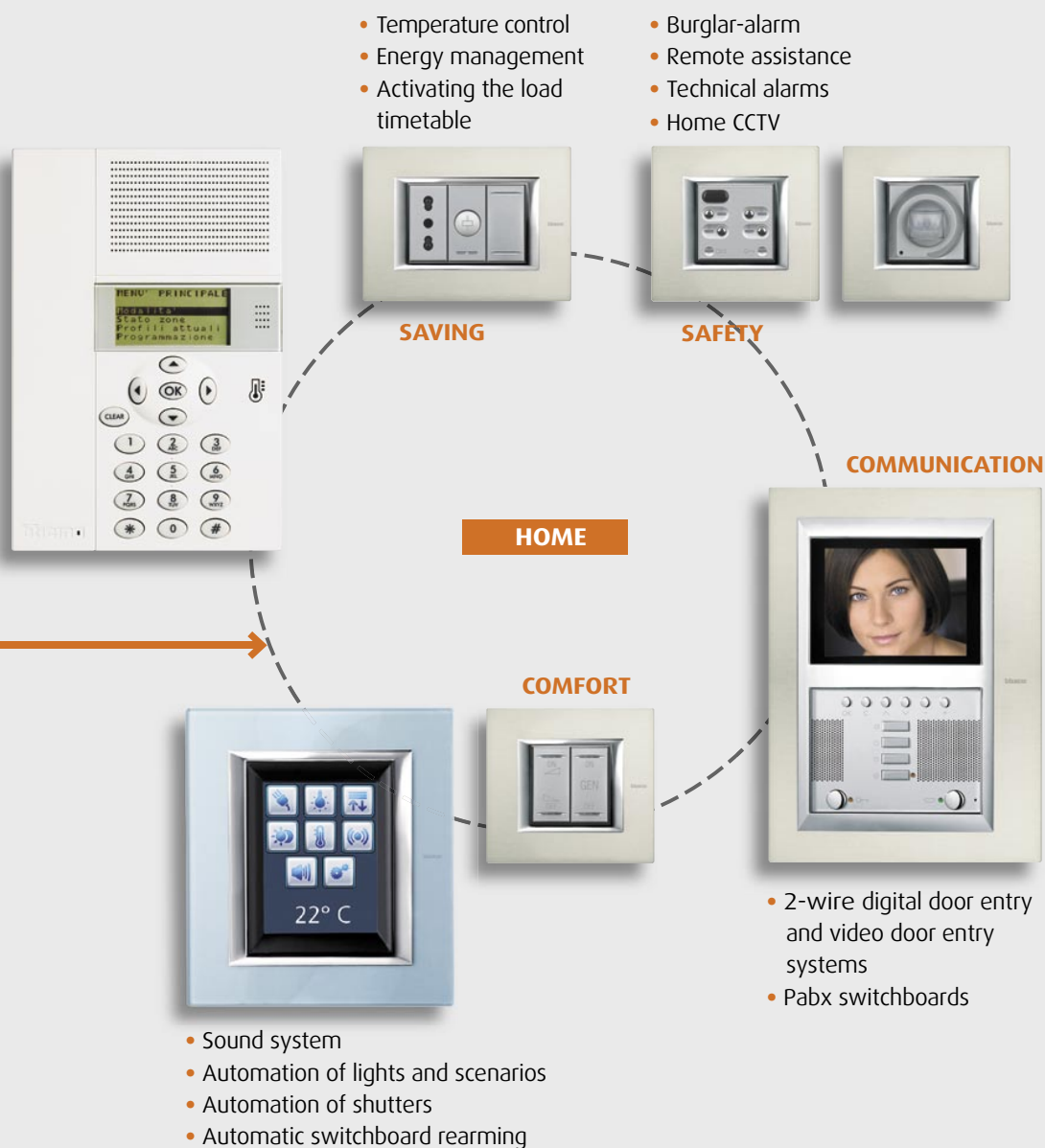
MY HOME
The home as you want it

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.

LIVING

MY HOME

Totally free to choose the control

MY HOME brings you the maximum choice in selecting the control, thus enabling you to manage your own domotic system; from simple controls to controls for rooms, scenarios and local and remote monitoring.

■ **BASIC CONTROL**
Enabling and adjusting a single function with:
• standard controls
• infrared controls
• touch controls

■ **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

Other devices

Scenario module

Standard control

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The possible functions

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..

SMS AND MMS

E-MAIL AND INTERNET

MESSAGE AND VOICE MENU

MY HOME PORTAL

GSM

ADSL
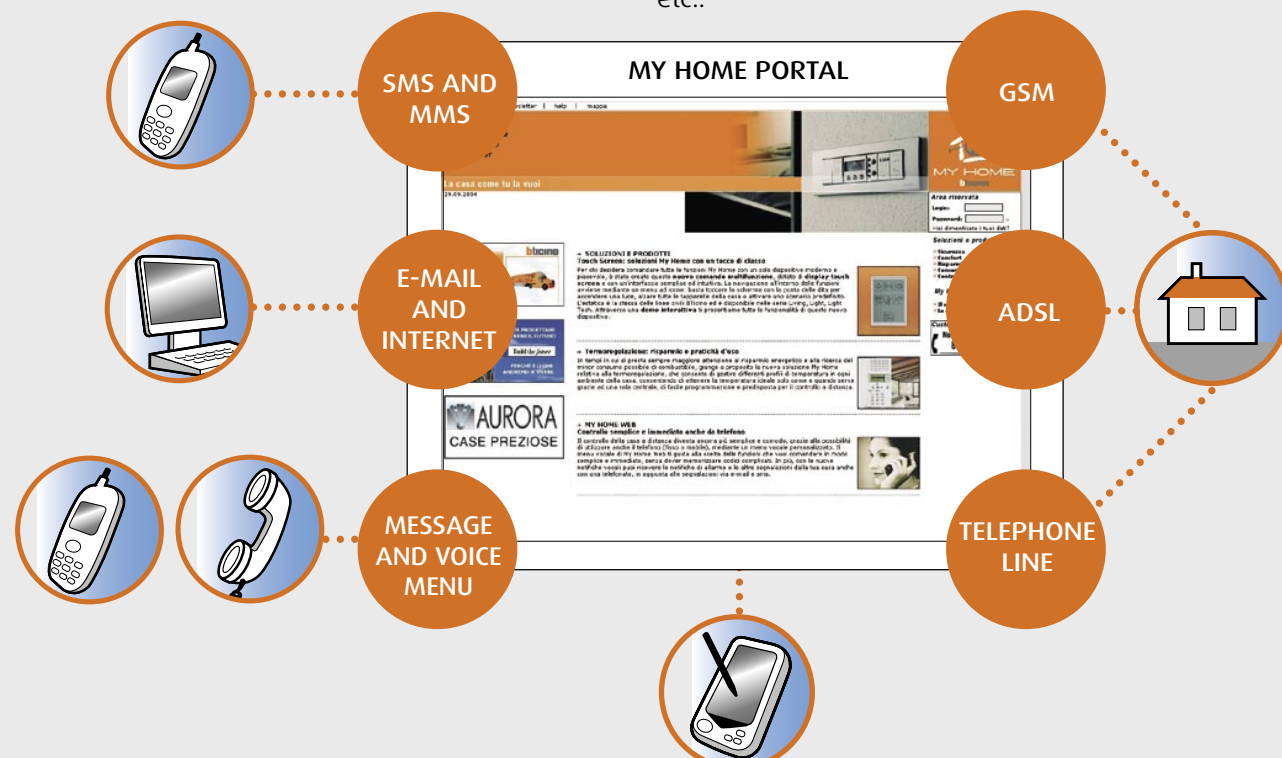
TELEPHONE LINE

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.
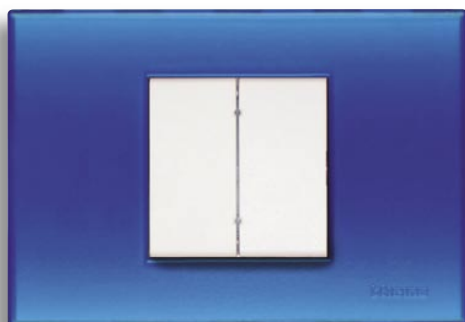
EXAMPLE OF WEB PAGE TO CONTROL THE CAMERAS
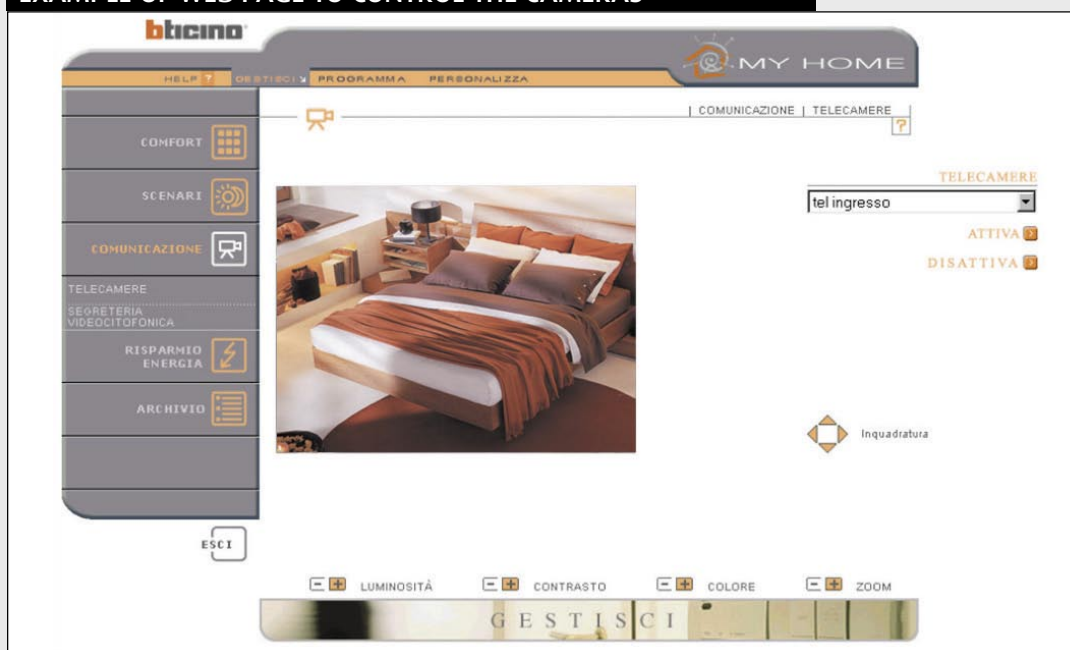
MY HOME AUTOMATION
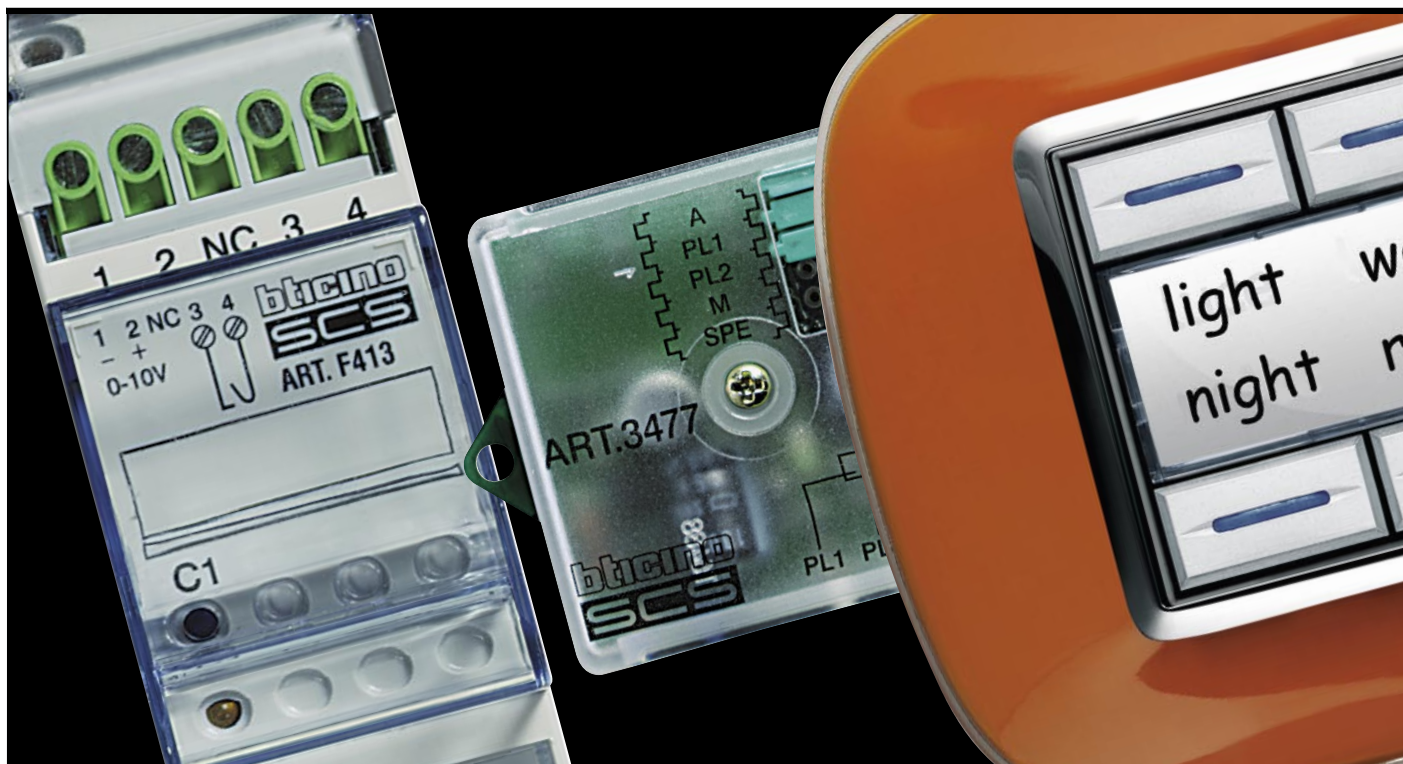
Radio remote control

Flat radio control

Colour Touch Screen

22° C

SECTION CONTENTS

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.
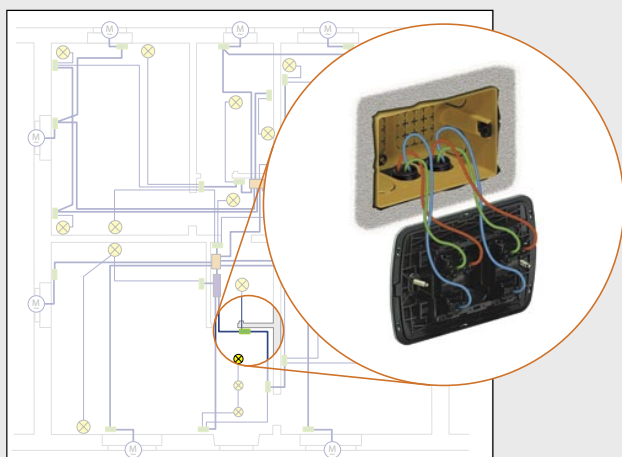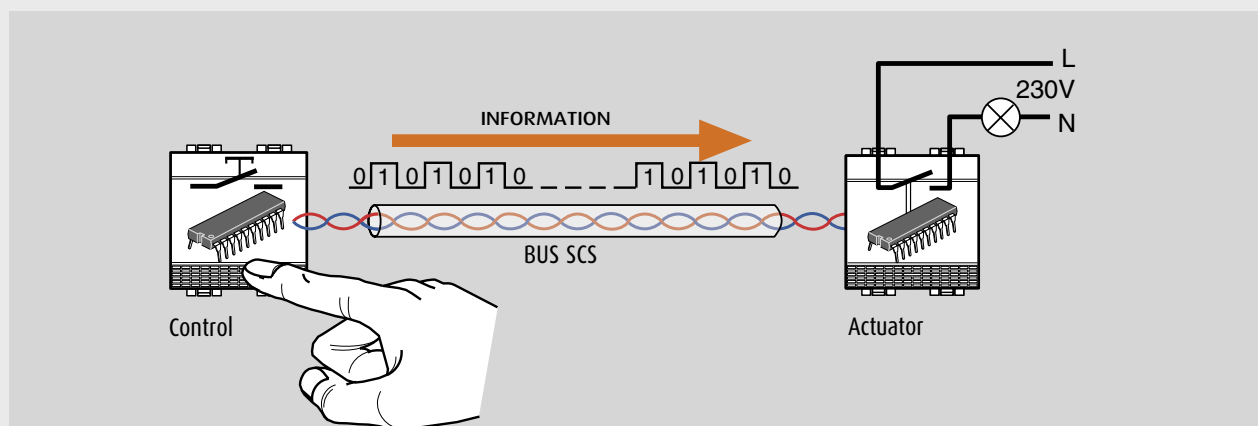

Wiring with traditional devices
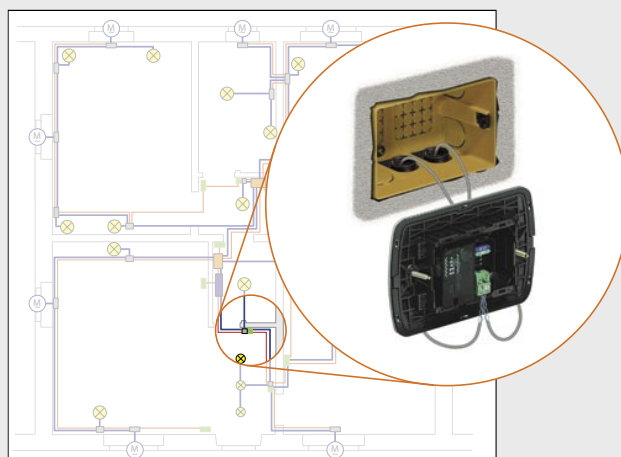
Wiring with BUS devices

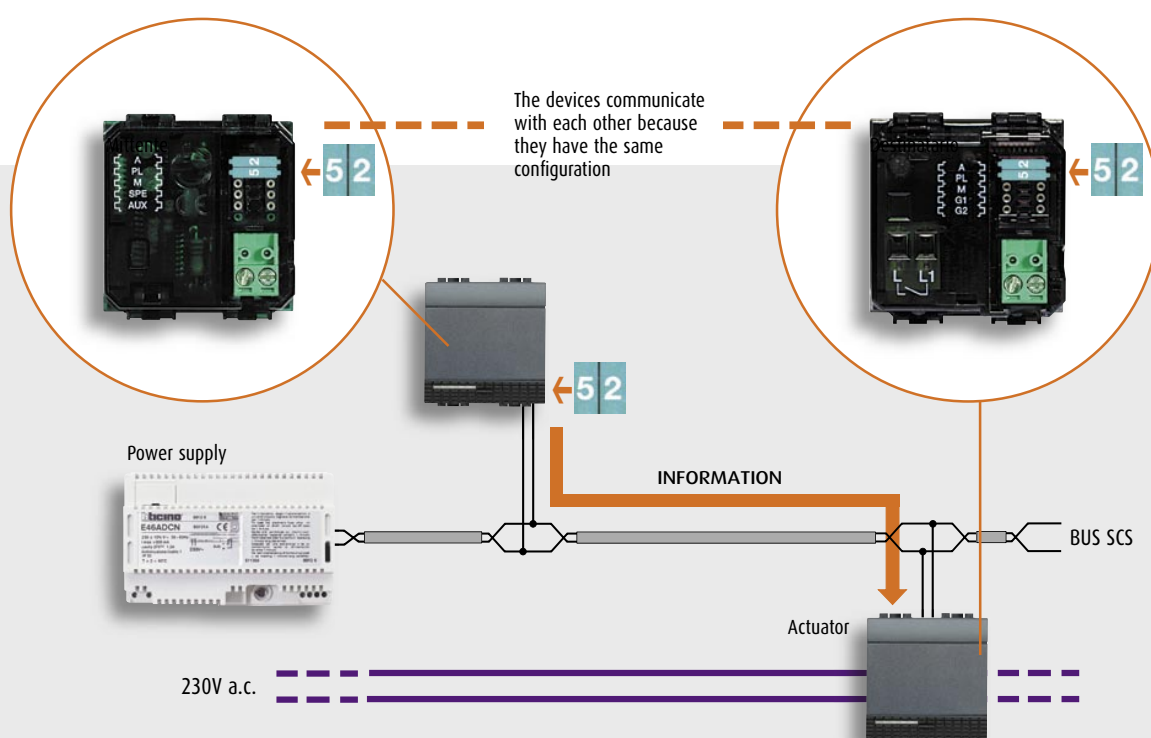As for the user interface, BUS devices are not different from traditional devices; as a matter of fact, to switch on a light, you will always have to use a button which, in this case, will activate a control device to send the digital signal to its lamp control actuator.

■ 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 devices communicate with each other because they have the same configuration

Power supply

INFORMATION

BUS SCS

Actuator

230V a.c.

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".

configurator socket

numbered configurator

description of the configurator socket

tool for insertion of configurator
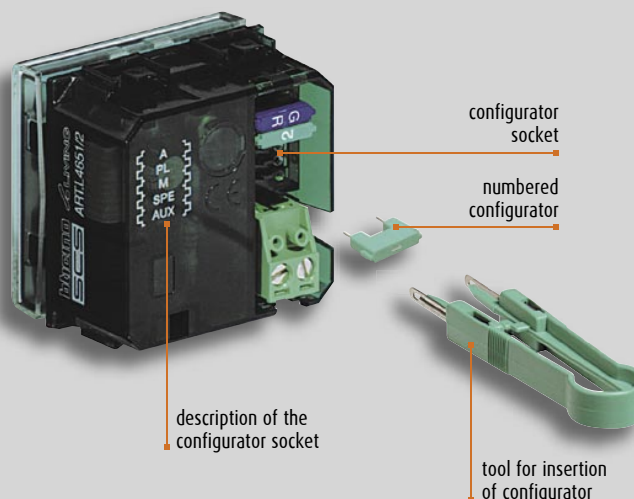
Automation

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
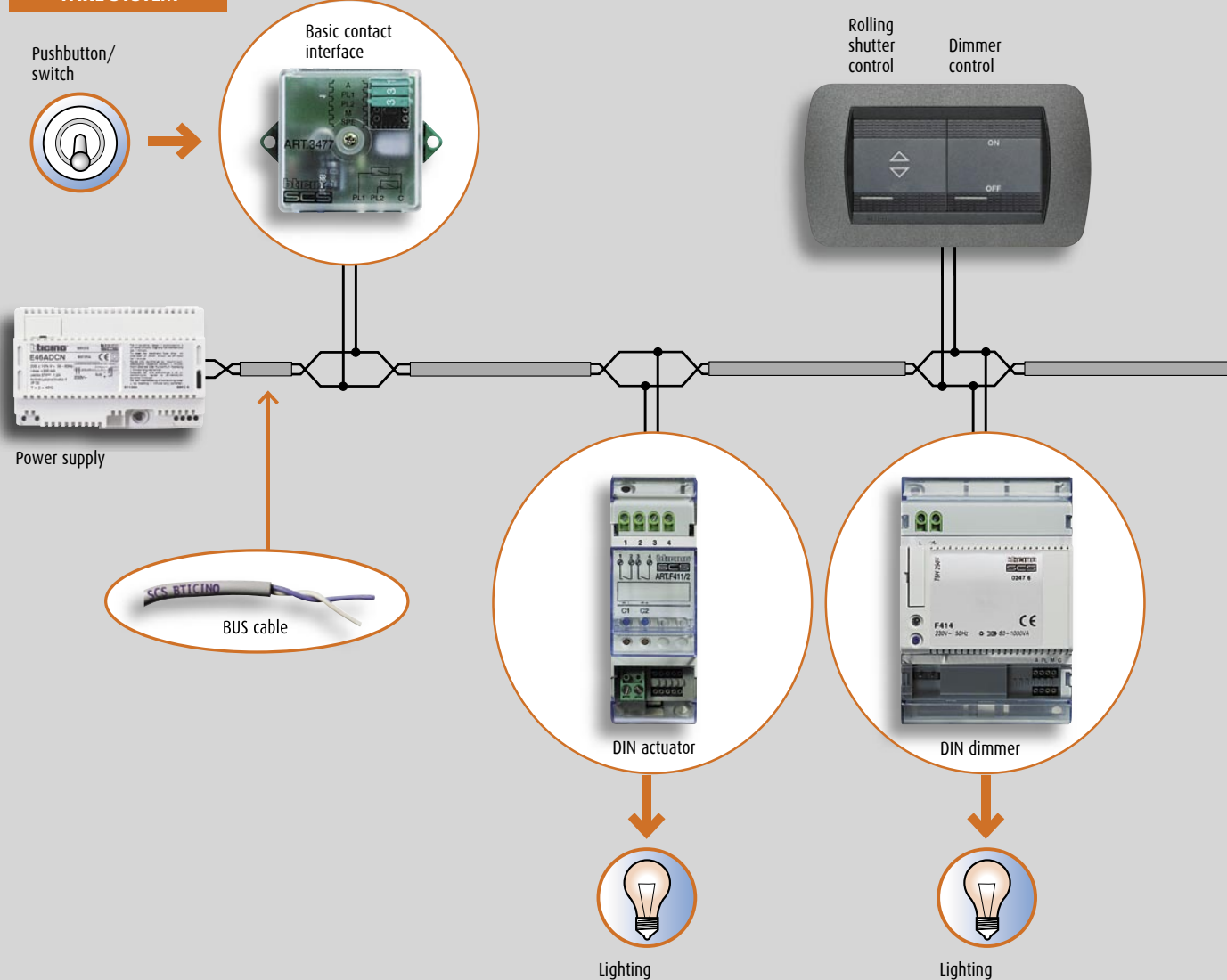• control for shutters and/or electric curtains, fans, exhausters, etc.
Compared to the devices of a conventional electrical system, Automation devices have an electronic circuit with a programmable logic and are connected in parallel with a 2-conductor BUS cable for sending information and with low 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

Pushbutton/switch

Basic contact interface

Rolling shutter control

Dimmer control

Power supply

BUS cable

DIN actuator
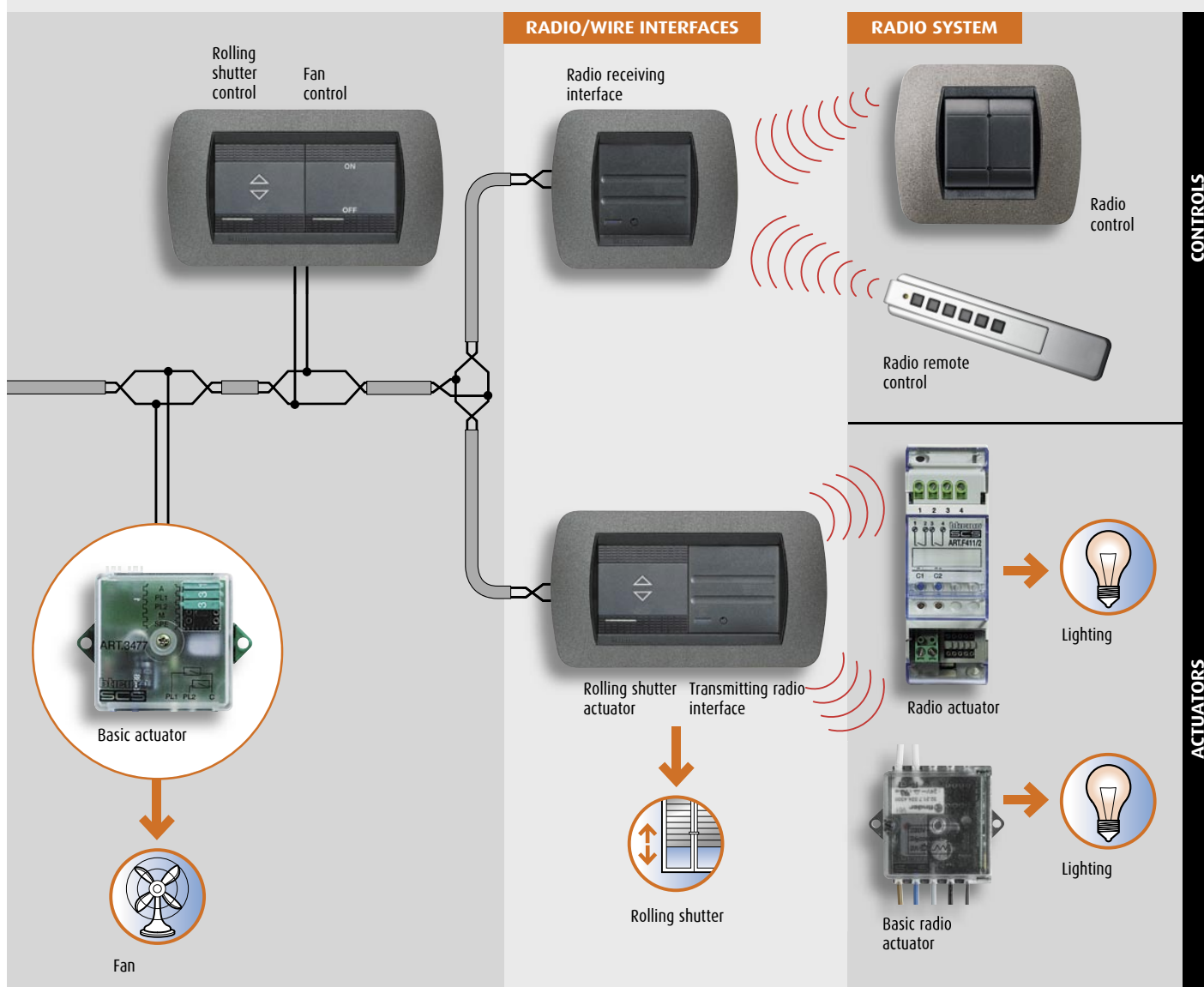
DIN dimmer

Lighting

Lighting

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.

RADIO/WIRE INTERFACES

RADIO SYSTEM

Rolling shutter control

Fan control

Radio receiving interface

Radio control

Radio remote control

CONTROLS

Basic actuator

Rolling shutter actuator

Transmitting radio interface

Radio actuator

Lighting

Fan

Rolling shutter

Basic radio actuator

Lighting

ACTUATORS

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

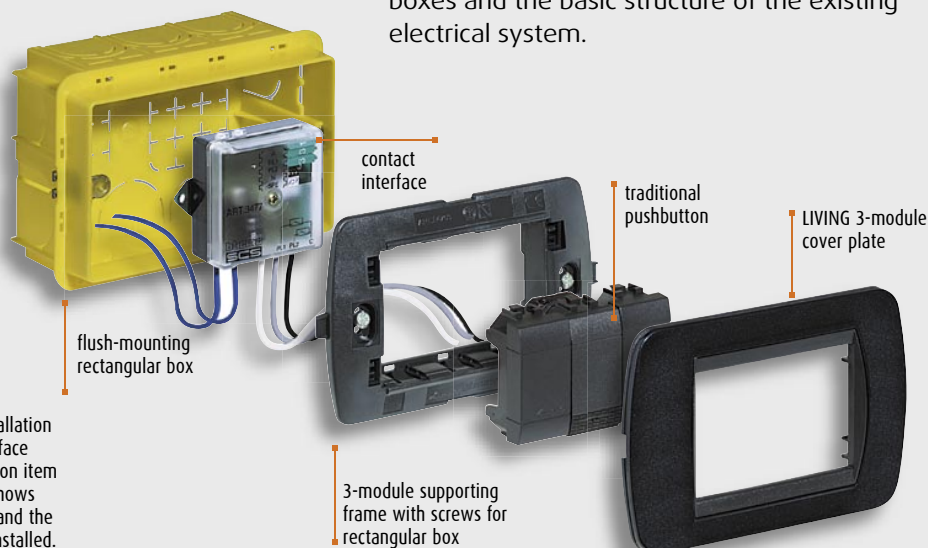Wire-system devices communicate with each other through a two-conductor BUS cable.
The range includes devices for basic functions such as controls and actuators as well as devices for advanced functions such as the scenario control, the IR remote control receiver and the Touch Screen.
The installation 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

Control   Actuator

Lighting

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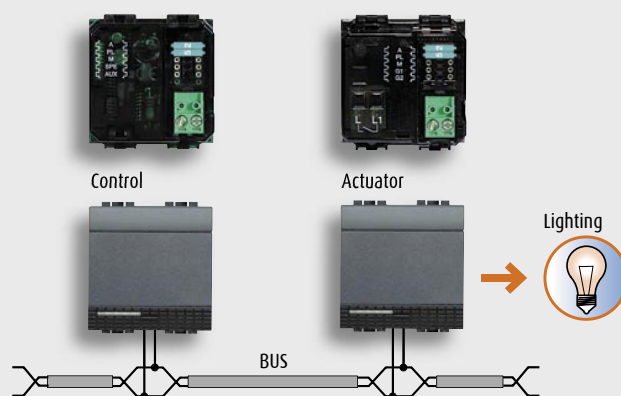
traditional devices (switches or buttons) or shallow electronic devices (controls or detectors). Hence, traditional electric systems can be easily transformed into domotic systems, thus using flush mounting boxes and the basic structure of the existing electrical system.

contact interface

traditional pushbutton

LIVING 3-module cover plate

flush-mounting rectangular box

3-module supporting frame with screws for rectangular box

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.

■ 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.

Lighting

Wander radio actuator

Radio control

Radio actuator

Rolling shutters

■ 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.

Extra radio control for rolling shutter

Radio receiving interface

Rolling shutter control

Actuator

Rolling shutters

BUS
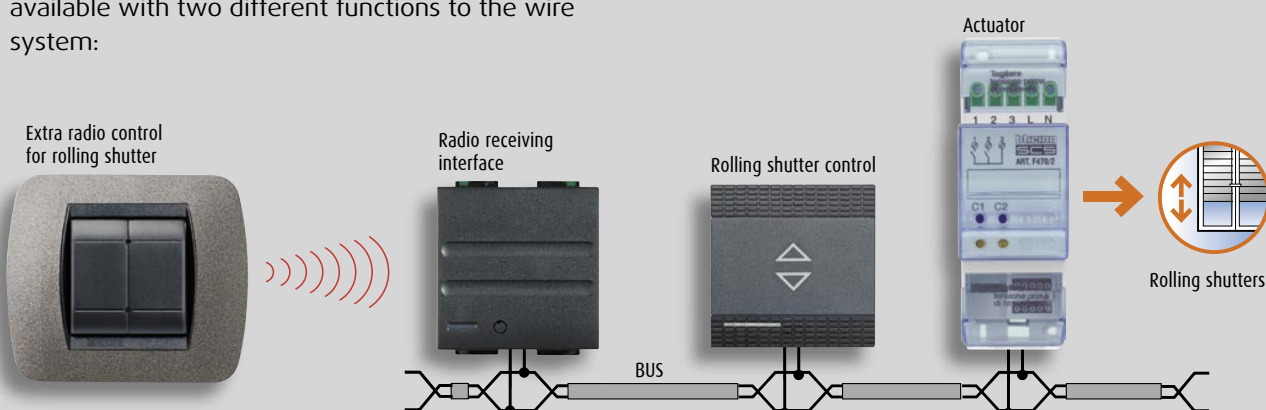
Wire automation

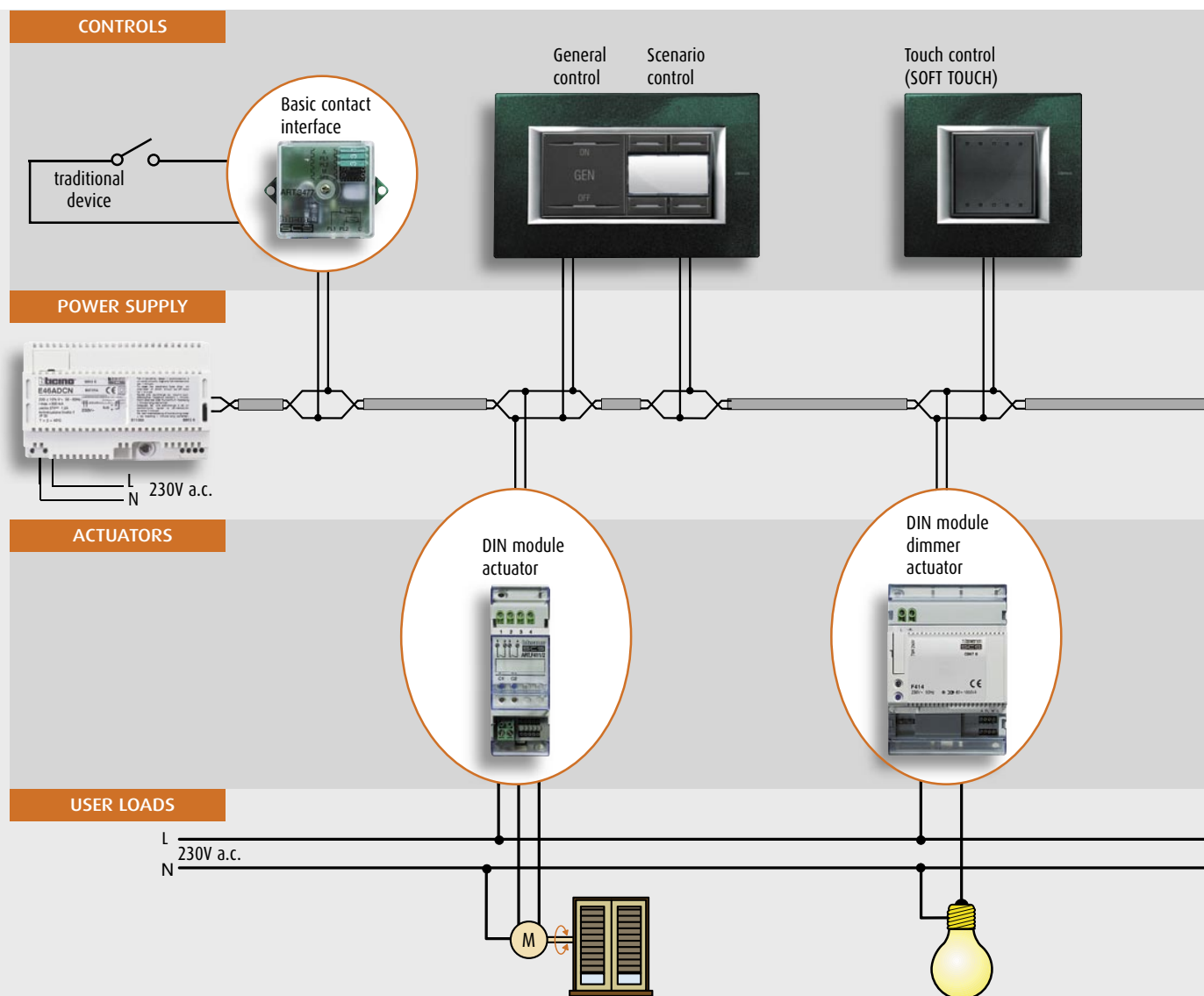The basic system includes control and actuating devices for flush mounting installations and installations in DIN switchboards. Control devices basically replace traditional devices such as switches, two-way switches and buttons but they can also execute more complex functions such as activating scenarios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

CONTROLS

General control

Scenario control

Touch control (SOFT TOUCH)

Basic contact interface

traditional device

POWER SUPPLY

230V a.c.
L
N

ACTUATORS

DIN module actuator

DIN module dimmer actuator

USER LOADS

L
230V a.c.
N

M

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".

configurator

protective cover

Bus connection terminal

pair

Local control

TOUCH SCREEN

Local control

22° C

Flush-mounting actuator

Basic actuator

Flush-mounting actuator

protective cover

Bus connection terminal

pair

load supply line
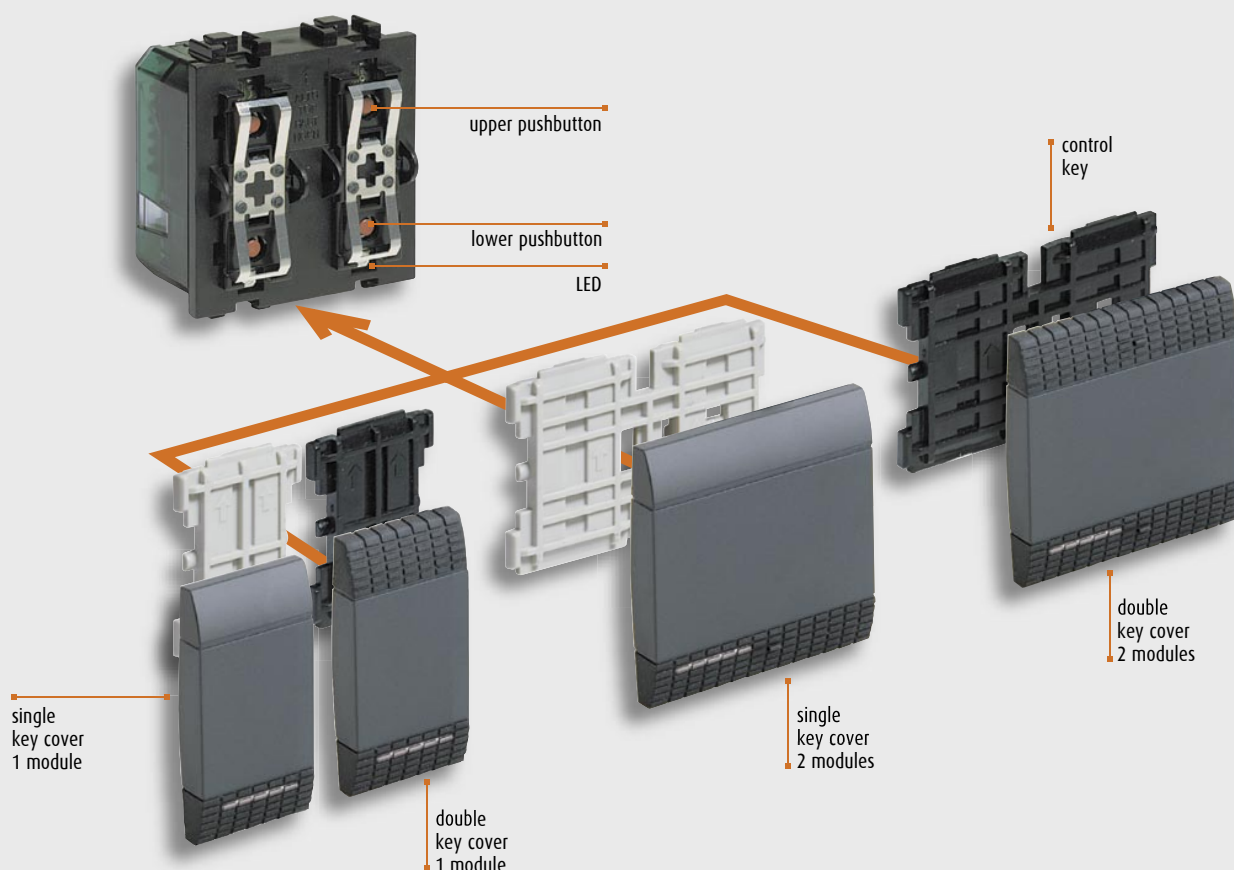
M
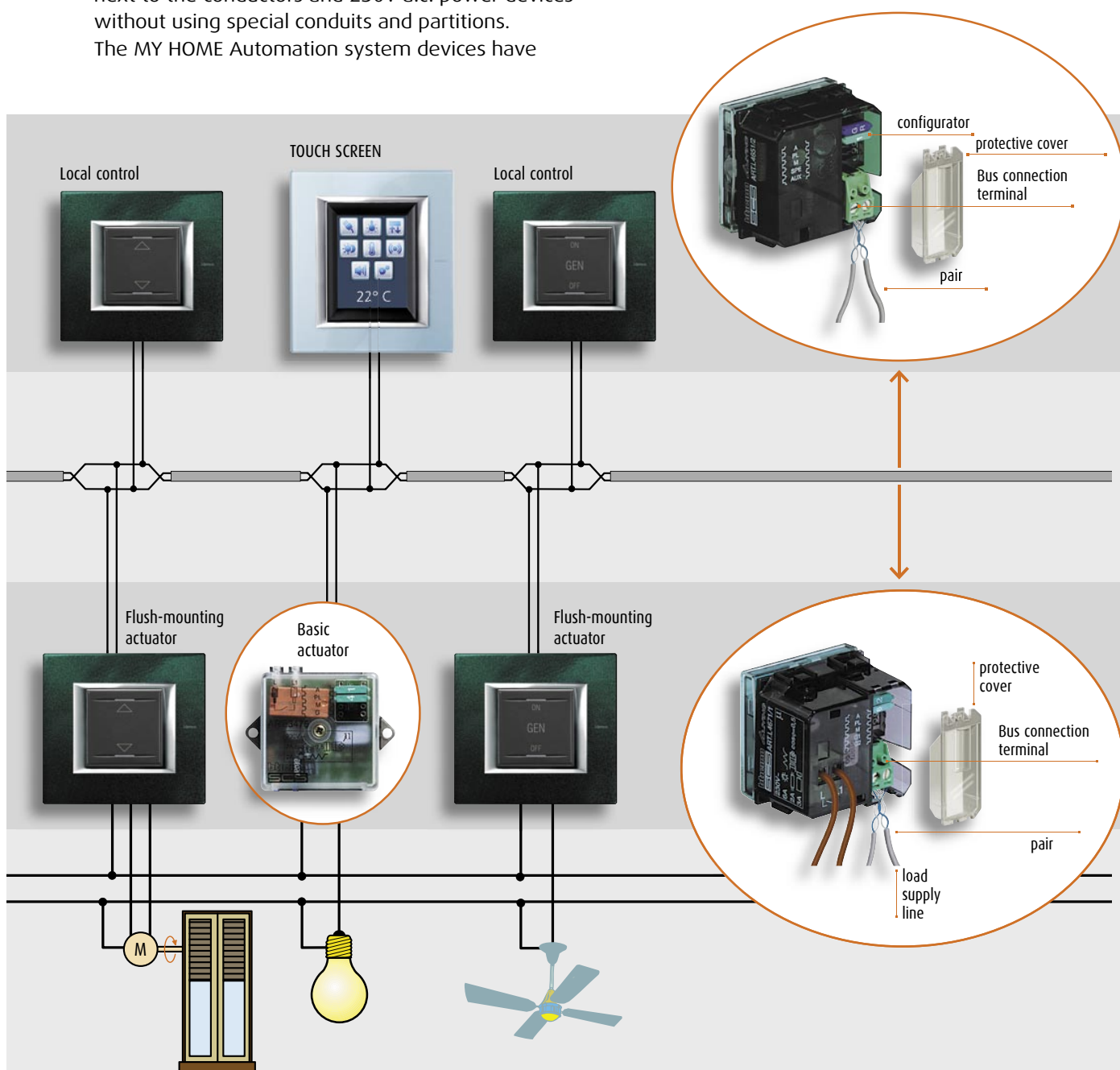
Wire automation

■ **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.

upper pushbutton

lower pushbutton

LED

control key

single key cover 1 module

double key cover 1 module

single key cover 2 modules

double key cover 2 modules

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.

upper pushbutton

lower pushbutton

LED
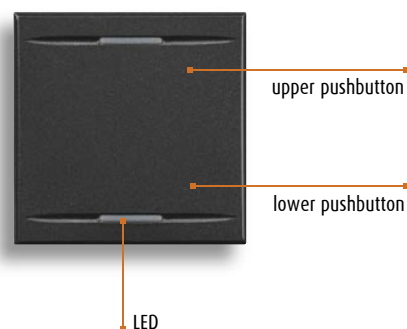
■ BASIC CONTROL DEVICES

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

![bticino logo]

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 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.

Scenario control
item HC4680 AXOLUTE

Scenario module
item F420

Scenario module

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.
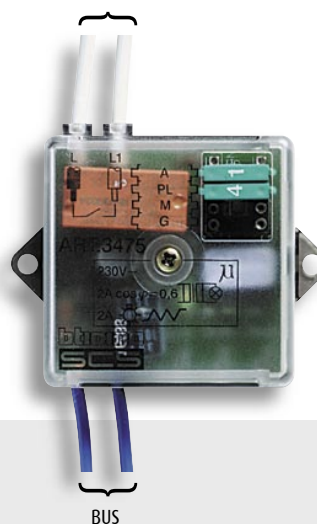
load control pushbutton

M

230V a.c.

BUS
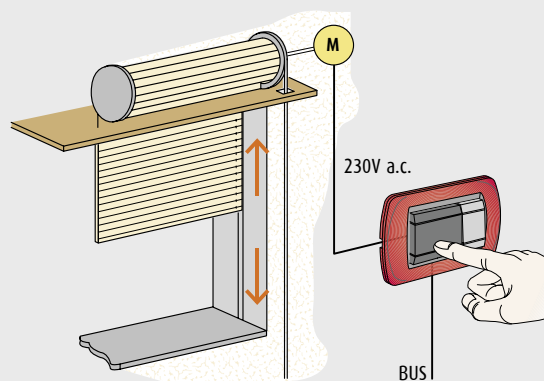
Installation of the actuator to control the rolling shutters

■ 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.

To the load to be controlled

BUS

Example of installation in flush-mounting box

side-by-side
Basic items

rectangular
flush-mounted
box

3-module
supporting
frame

control
device

LIVING 3-module
cover plate

side section
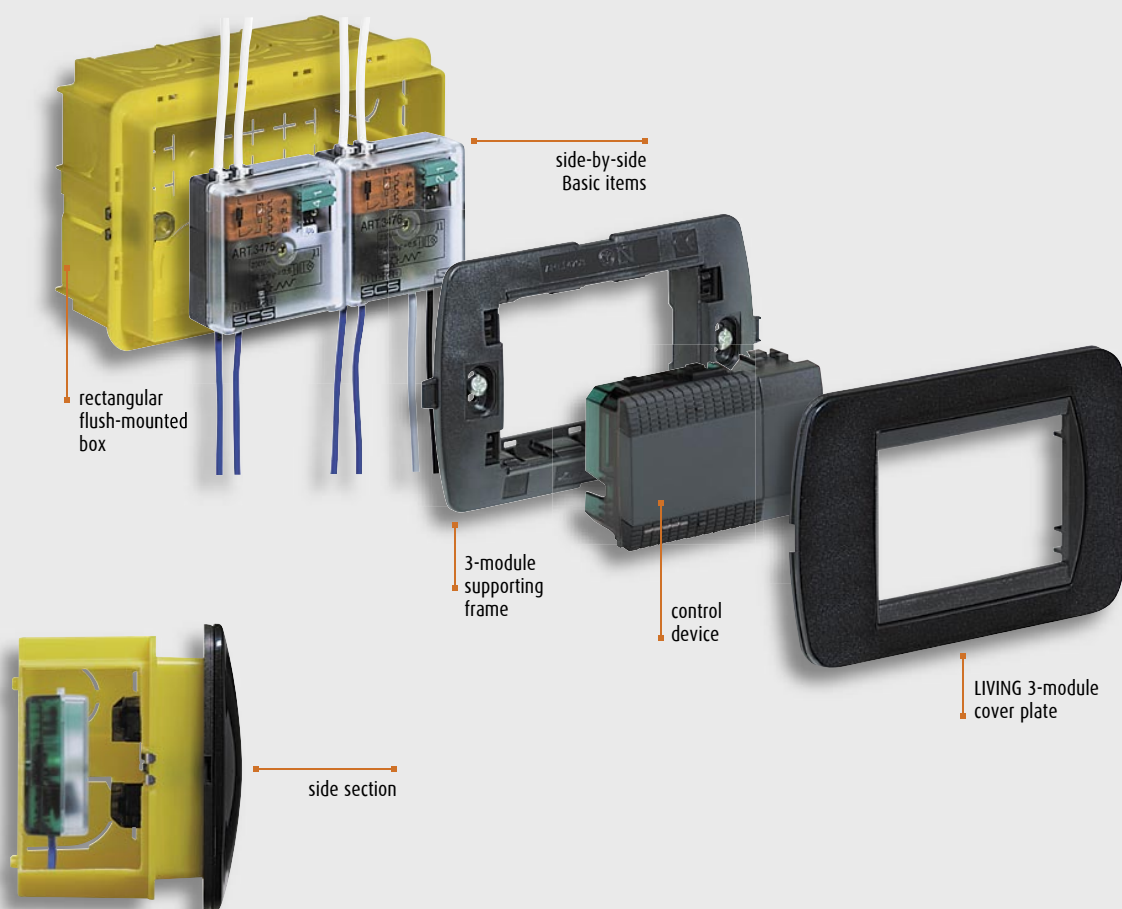
Wire automation

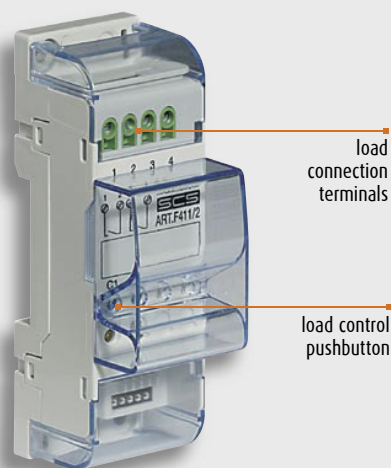**■ DIN MODULE ACTUATORS**
These devices are suitable for centralised installations in boards and switchboards (2 DIN modules). Available in versions with 1, 2 and 4 relays for controlling single loads or double loads (motor for shutters); these devices are also provided with load control keys for carrying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

load connection terminals

load control pushbutton

Installation in the INTERLINK trunking

actuator
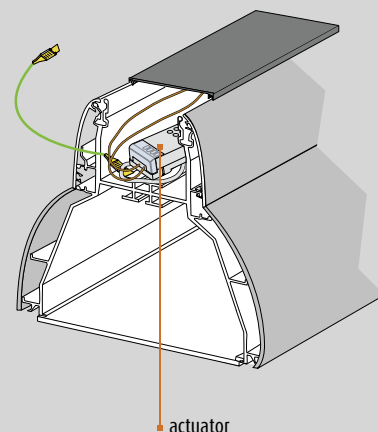
Installation in junction boxes

plug-in front

plug-in adapter for installation on DIN rail in switchboards

only 20 mm

■ 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 mo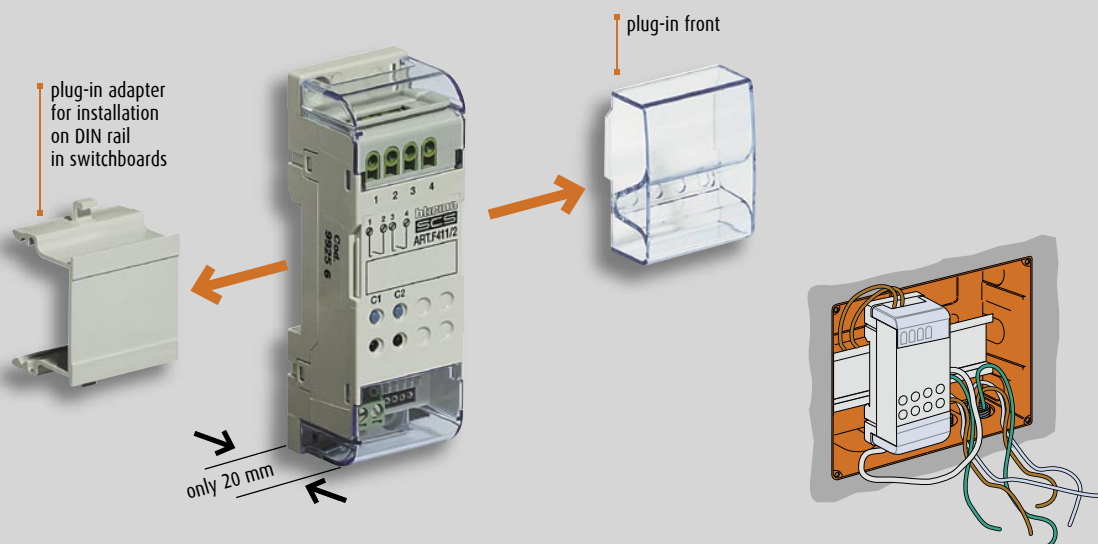dern digital BUS technology and a traditional cabling component or PC is represented by special devices called interfaces. As a result, these devices interpret information of the traditional world, thus translating it into signals compatible with BUS logic devices.

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.

BUS

L/N/NT 4688

External devices

Prestige switch
(reuse of historical
devices)
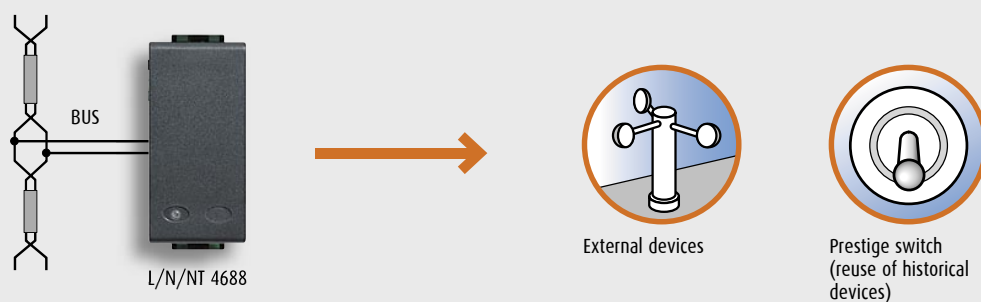
Wire automation

■ 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.

BUS

3477

External devices

Prestige switch
(reuse of historical devices)

Example of installation in flush-mounting box

contact interface

traditional pushbutton

rectangular flush-mounted box

3-module frame with screws for rectangular box

LIVING INTERNATIONAL 3-module cover plate
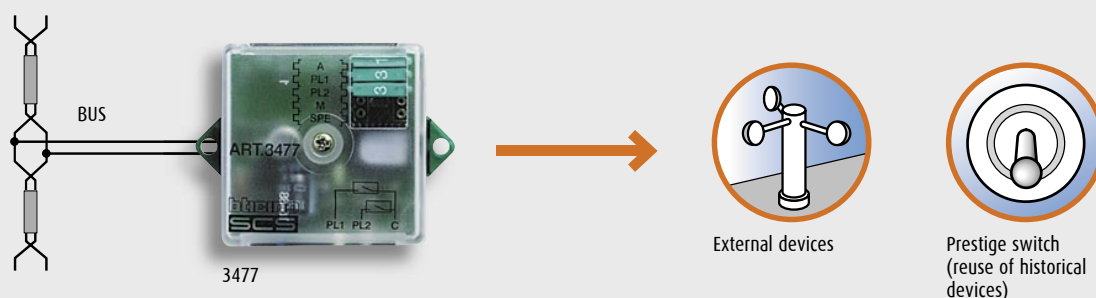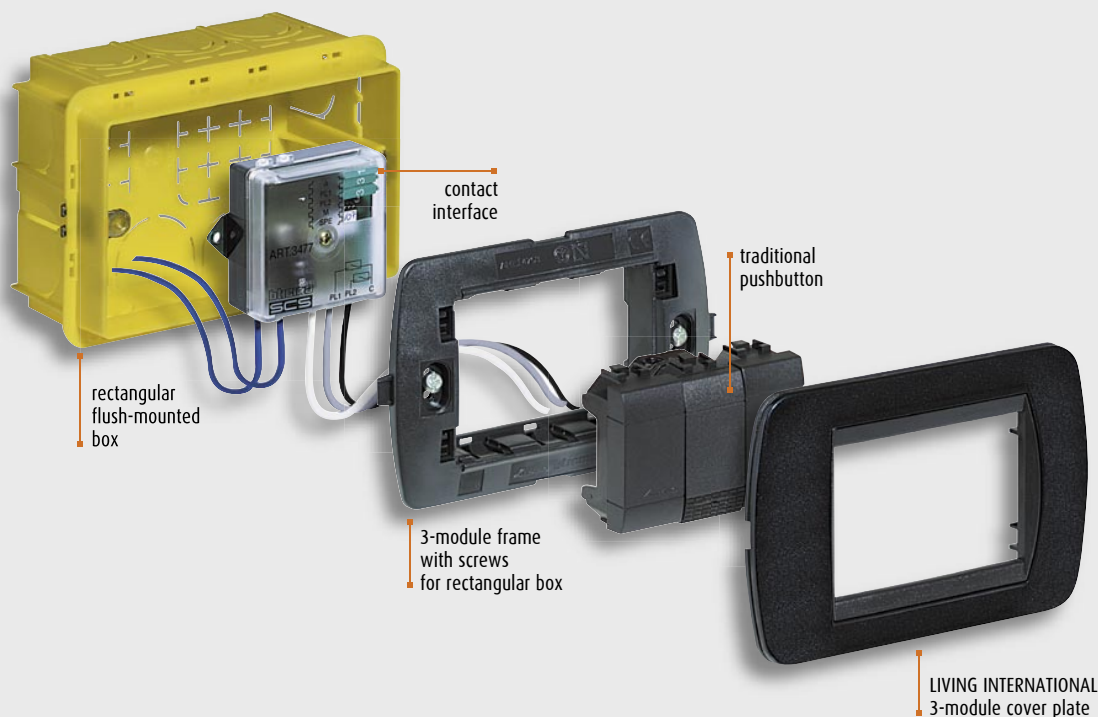
■ SCS/SCS INTERFACE

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).

BUS

F422

SAFETY
- burglar-alarm
- remote assistance
- technical alarms
- CCTV

MY HOME

SAVING
- temperature control
- energy management

COMMUNICATION
- 2-wire digital video door entry system

22° C

COMFORT
- lighting
- automation of rolling shutters
- scenarios
- sound system
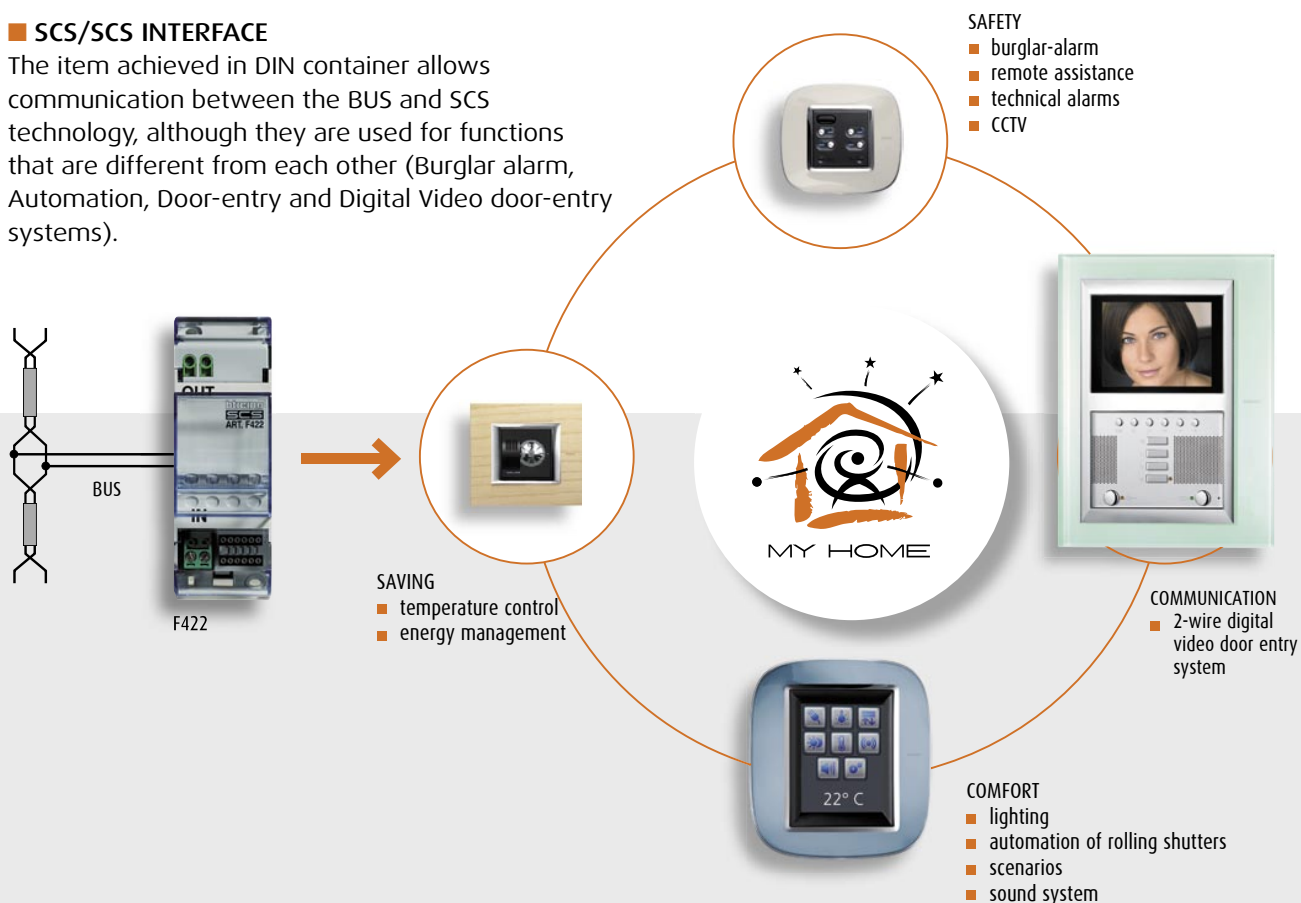
■ SCS/EIB INTERFACE

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.

BUS

F426

EIB system

BUS   EIB

BE
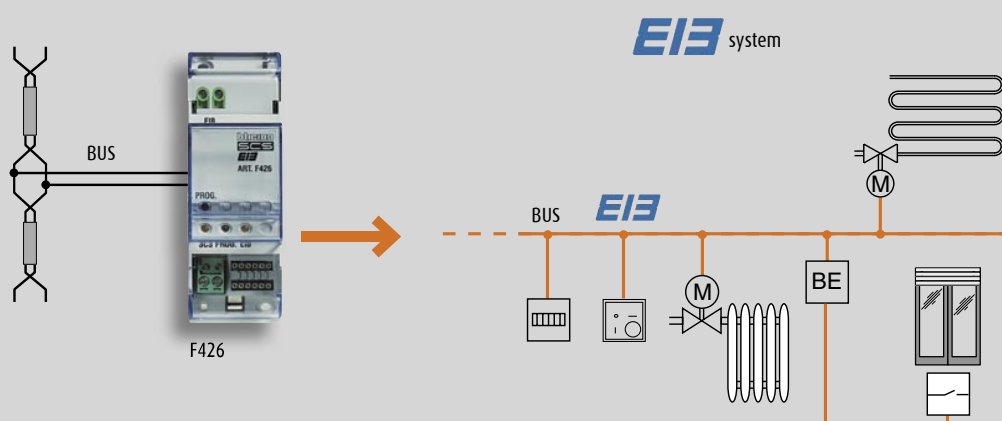
Radio automation

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.

CONTROLS

Flat control for wall-mounting installation

6-channel remote control

Flush-mounting control

ACTUATORS

Light actuator

Rolling shutter actuator

Wander actuator

Basic actuator

L

N
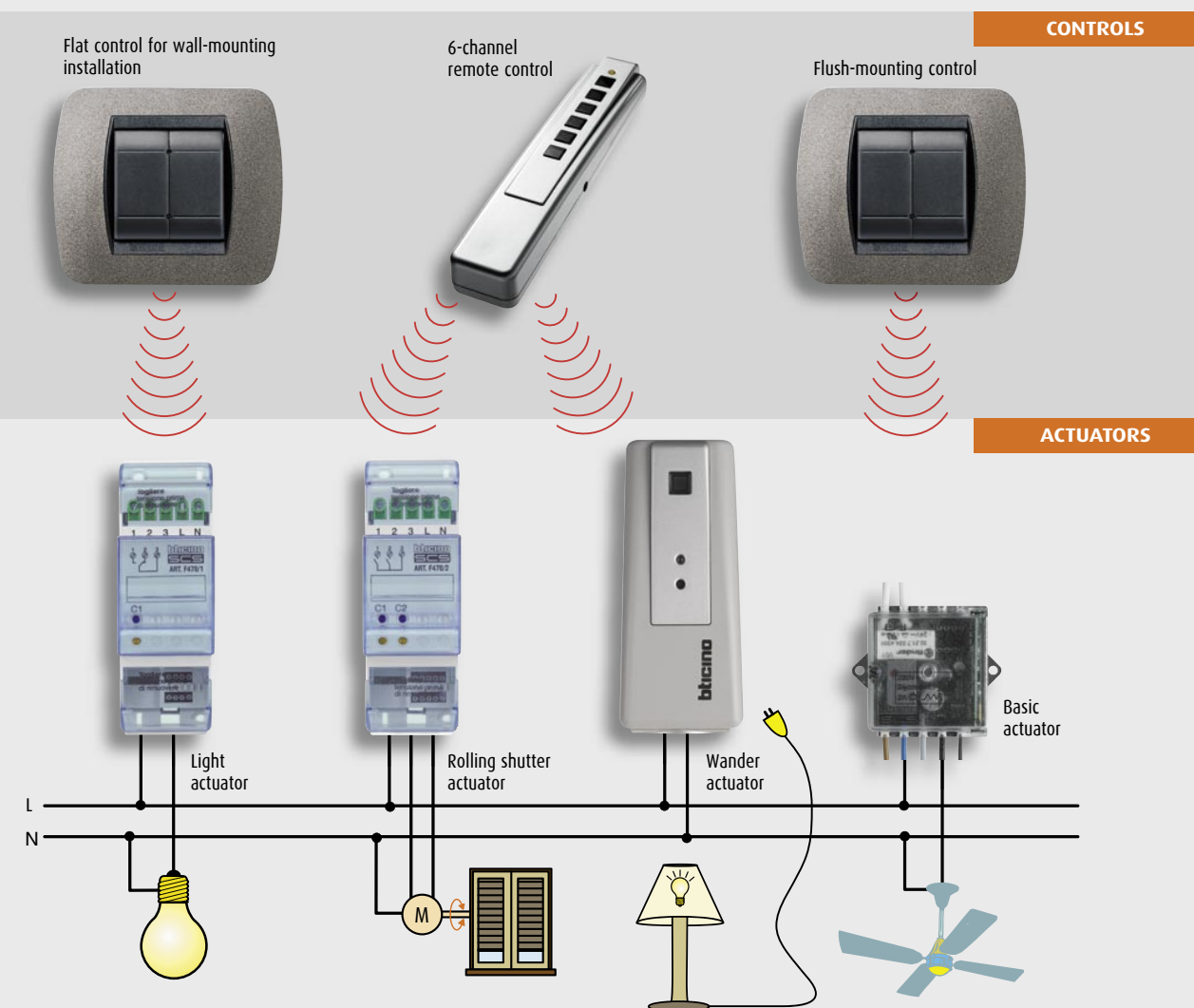
■ CONTROL DEVICES

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.

Flat control

Flush-mounting control
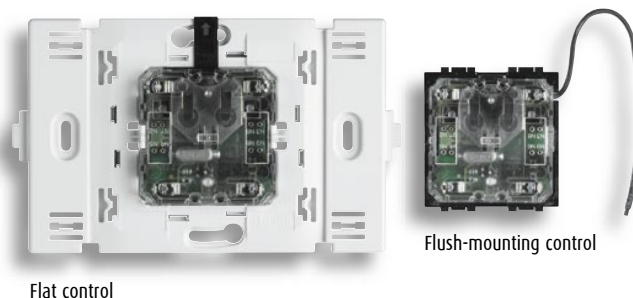
REMOTE CONTROL

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).

Remote control

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).

Wander radio actuator

Basic actuator
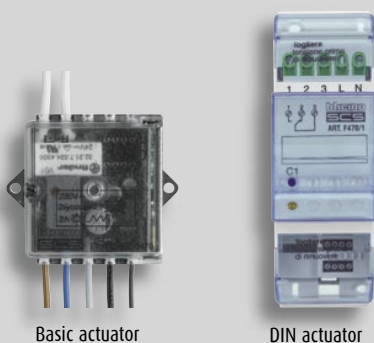
DIN actuator

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.
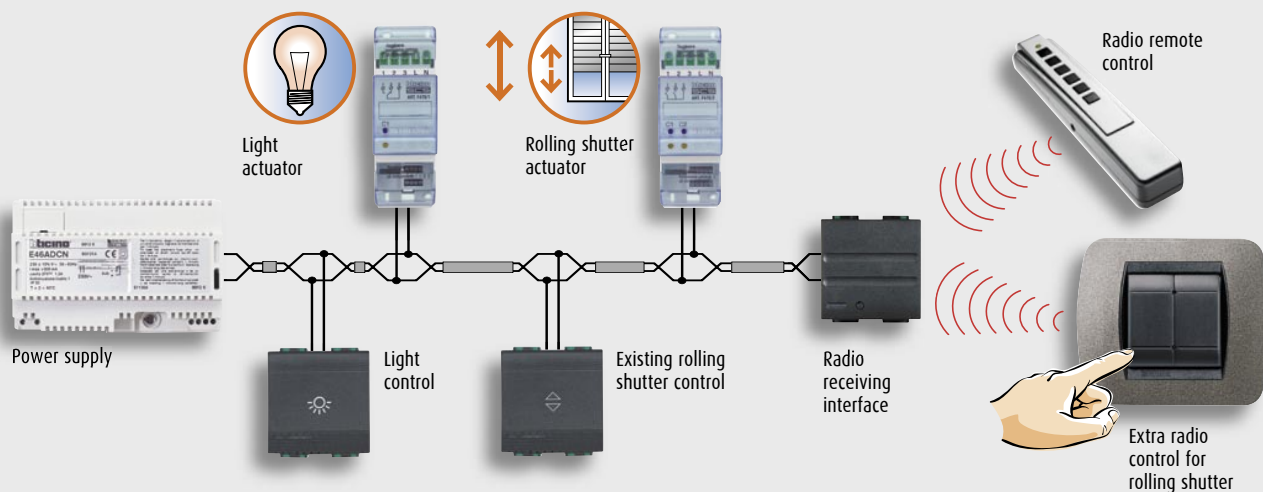In this regard, two interfaces are available which can create a mixed radio and wire system:
• a receiving interface which can control any wire system actuator via a radio control;

• 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

Light actuator — Rolling shutter actuator — Radio remote control — Power supply — Light control — Existing rolling shutter control — Radio receiving interface — Extra radio control for rolling shutter

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

Light actuator — Rolling shutter actuator — New lamp — Power supply — Light control — Rolling shutter control — Radio transmitting interface — Extra radio actuator for new lamp
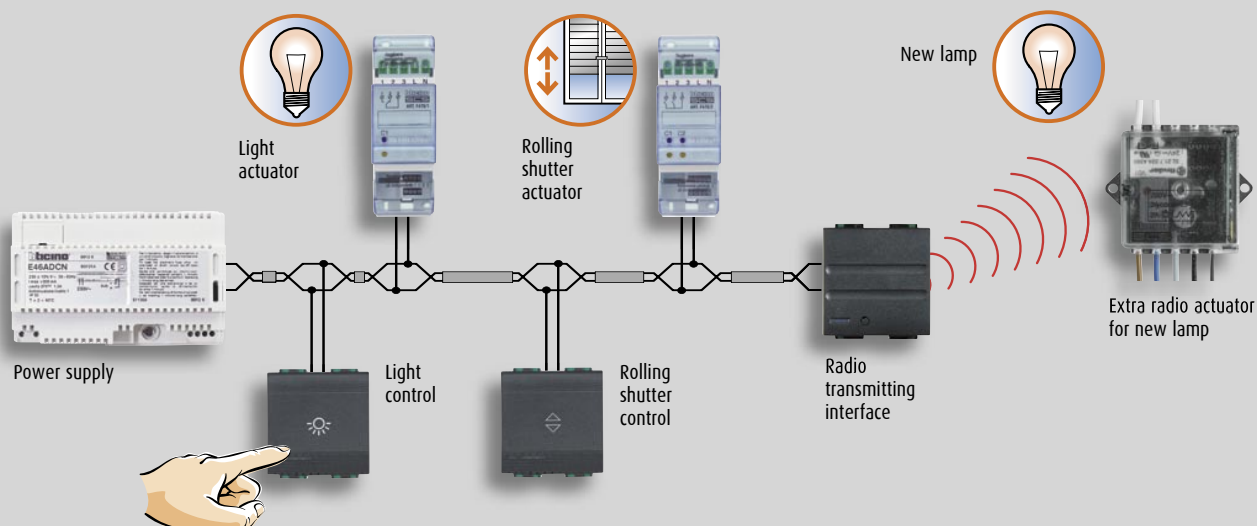
■ INTERFACES TOWARD WIRE SYSTEM

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

extra control
for rolling
shutter

network
230V ~

rolling shutter
control +
receiving interface

light
control

SCS pair

Flat radio control

Rolling
shutter
control

Receiving
interface
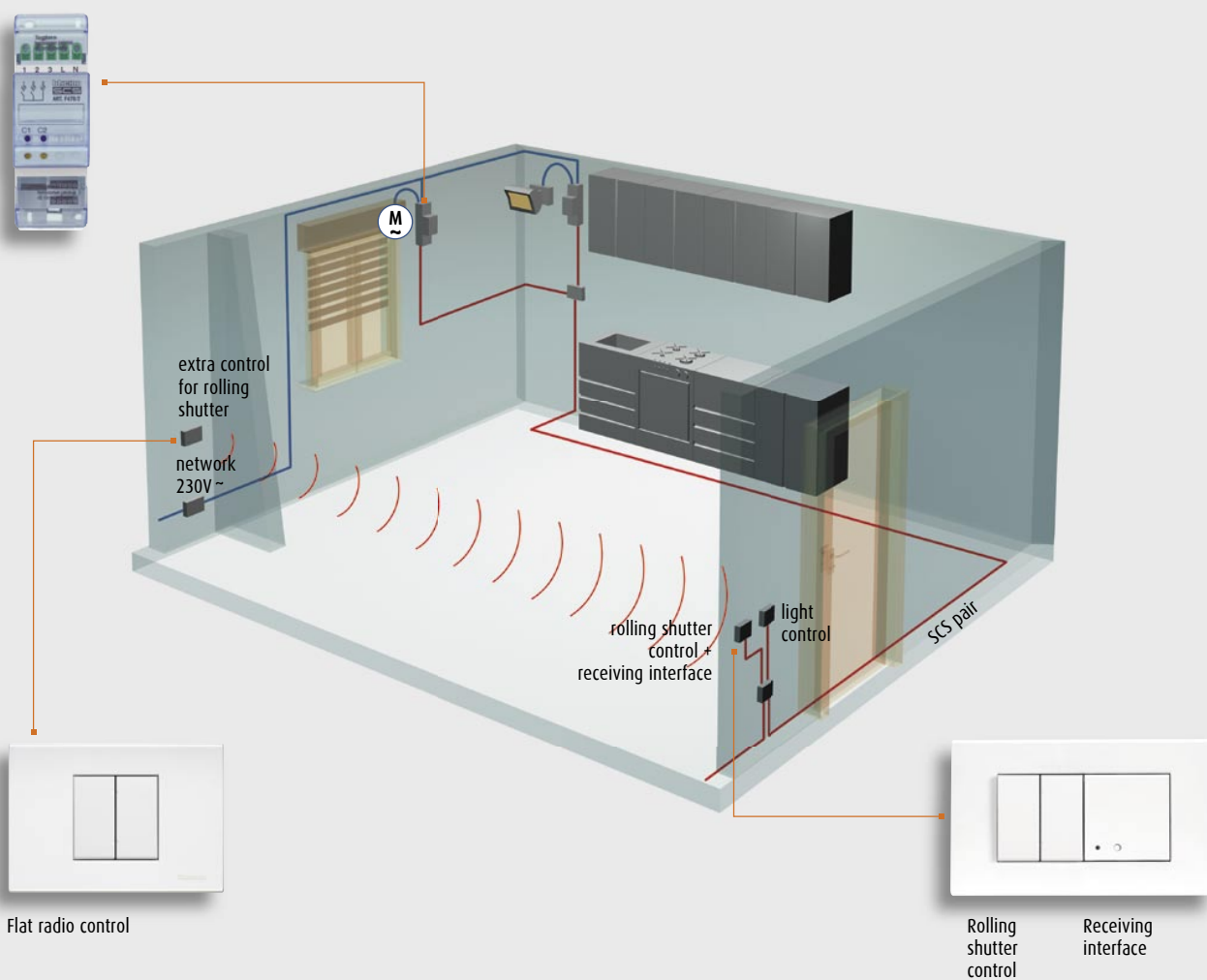
Wire automation

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

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	

L4683

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).

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

HC4654

HS4654

L4654N

N4654N

NT4654N

4482/7
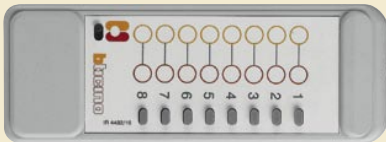
4482/16

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 **N4610** **NT4610**	as above - LIVING, LIGHT, LIGHT TECH
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 **N4611** **NT4611**	as above - LIVING, LIGHT, LIGHT TECH

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

IR PASSIVE MINI-DETECTORS

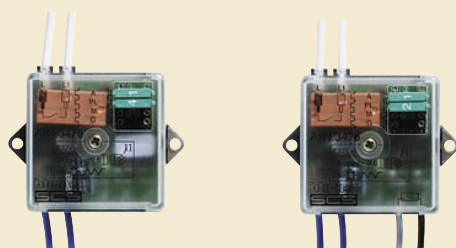| Item	Description
N4640	volumetric presence detector with passive infrared rays – alarm signal LED with memory – capacity 8 metres, angular opening 105°, 14 beams divided on three levels – auxiliary prealarm channel can be activated - wall-mounting, inclined and at an angle

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
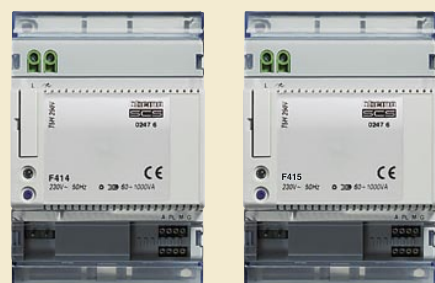
F414 F415

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.

INTERFACE TO MANAGE THE SYSTEM WITH A PC

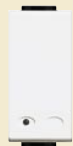| Item	Description
L4686	RS232 interface to connect the serial port of a PC to the Automation system BUS – to be installed together with the specific software (supplied) to define the system management program

L4686

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

336983   336982   336984

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

L4688   N4688   NT4688

3477

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

F422   F426   F425   F420

KIT - CONTROL AUTOMATION

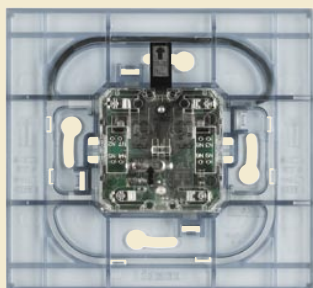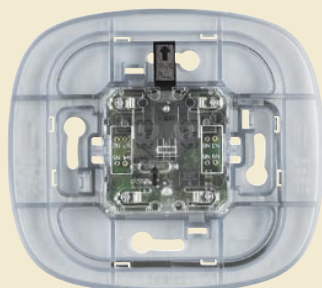| Item	Description
MHKIT10	Automation kit in Living, Light and Light Tech styles for the automation of 5 rolling shutters or motor-driven curtains or 3 rolling shutters and 2 curtains with local and general controls
MHKIT20	Automation Kit in Living, Light and Light Tech styles to manage 10 light points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

MHKIT10   MHKIT20

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

TOP selection
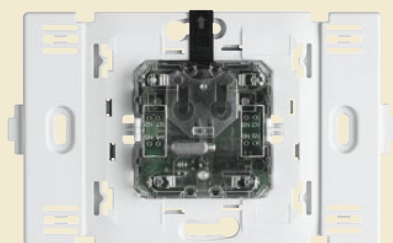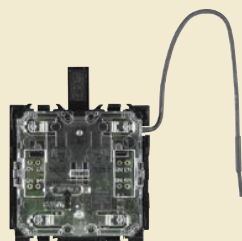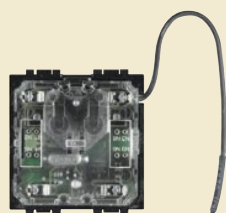security&safety 2006

Automation radio

HA4572

HB4572

L4572

H4572PI

L4572PI

RADIO CONTROL DEVICES WITH BATTERY	
Item	Description
HA4572★	flat radio control to be completed with 1-module AXOLU-TE 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	
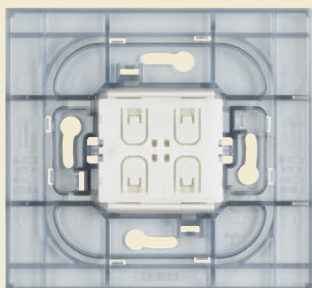
HA4572SB

HB4572SB

L4572SB

RADIO CONTROL DEVICES WITHOUT BATTERY
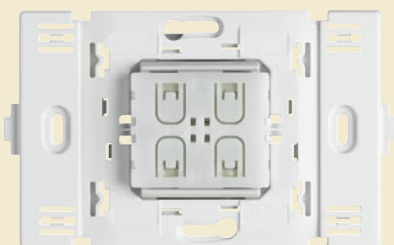
Item	Description
HA4572SB★	flat radio control to be completed with 1-module AXOLUTE key cover item HC/HS4919SB and 2-module rectangular cover plate – no batteries required - surface mounting installation with double-sided adhesive tape or screws and screw anchors – used in MY HOME applications with special 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

3527

RADIO REMOTE CONTROL

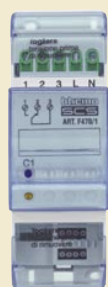| Item	Description
3527	Radio remote control with 6 customisable pushbuttons with graphic labels - ergonomic grip and set up for being used by disabled people (designed in collaboration with the INAIL Prosthesis Center) – powered by 2 non-rechargeable 1.5V AA alkaline batteries (supplied)

bticino

Automation
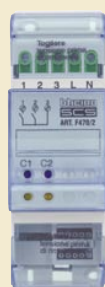## radio

H4574
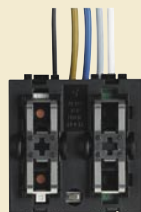
L4574

H4573/2

L4573/2

3470

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

F470/1

F470/2

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
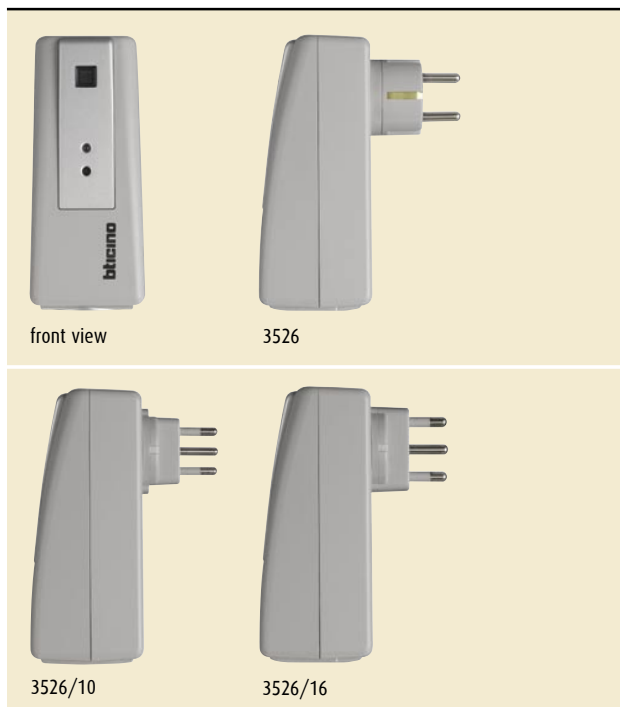
Item	Description
3526	mobile actuator with Schuko plug and universal socket (Schuko, 10A, 16A) – power: 230Va.c.- with one relay – for single loads: 16A resistive, 10A for incandescent lamps, 4A cosφ 0.5 for ferromagnetic transformers and 4A for fluorescent lamps and electronic transformers
3526/10	mobile 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
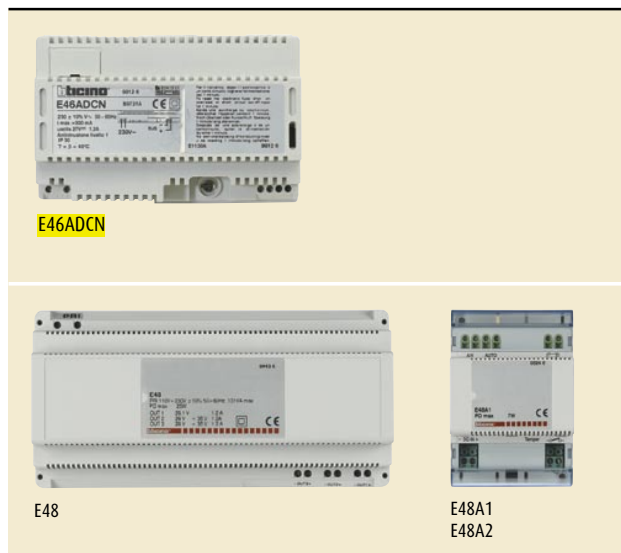
POWER SUPPLIES	
Item	Description
E46ADCN	power supply for MY HOME systems - input 230V a.c. output 27V d.c. SELV - maximum current absorbed 300 mA - maximum current supplied 1.2A - version for fastening DIN rail with 8 modules
E48	basic unit for powering MY HOME systems with several installations (Burglar 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

335919

3559

PC INTERFACE	
Item	Description
335919	PC interface cable for programming - for RS232
3559	as above - for USB

L4669
L4669/500

3515
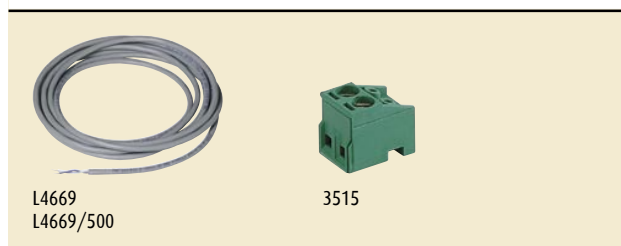
SHEATHED PAIR	
Item	Description
L4669	sheathed pair made up of 2 flexible conductors with braided and unshielded sheath for burglar-alarm system and automation system – insulation 300/500V – corresponding to standards CEI 46-5 and CEI 20-20 – coil length 100m
L4669/500	as above - in 500m coil

WITHDRAWABLE TERMINALS	
Item	Description
3515	spare withdrawable terminals

Accessories

502LPA
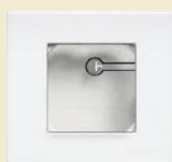
502NPA

504LIV

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

F80AL

F400A

ADAPTERS

Item	Description
F80AL	adapter to install 2 modules LIVING, LIGHT on DIN35 rail
F400A	as above - 3 modules
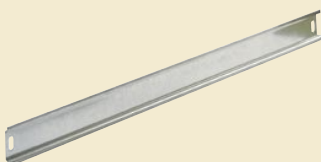
F496/PR

F496/MF

F496/PF

F496/FF

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

3501/0   3501/1   3501/2   3501/3   3501/4   3501/5

3501/6   3501/7   3501/8   3501/9   3501/GEN   3501/GR

3501/AMB   3501/AUX   3501/ON   3501OFF   3501/OI   3501/PUL

3501/SLA   3501/CEN   3501/T   3501/TM

3501K   3501K/1
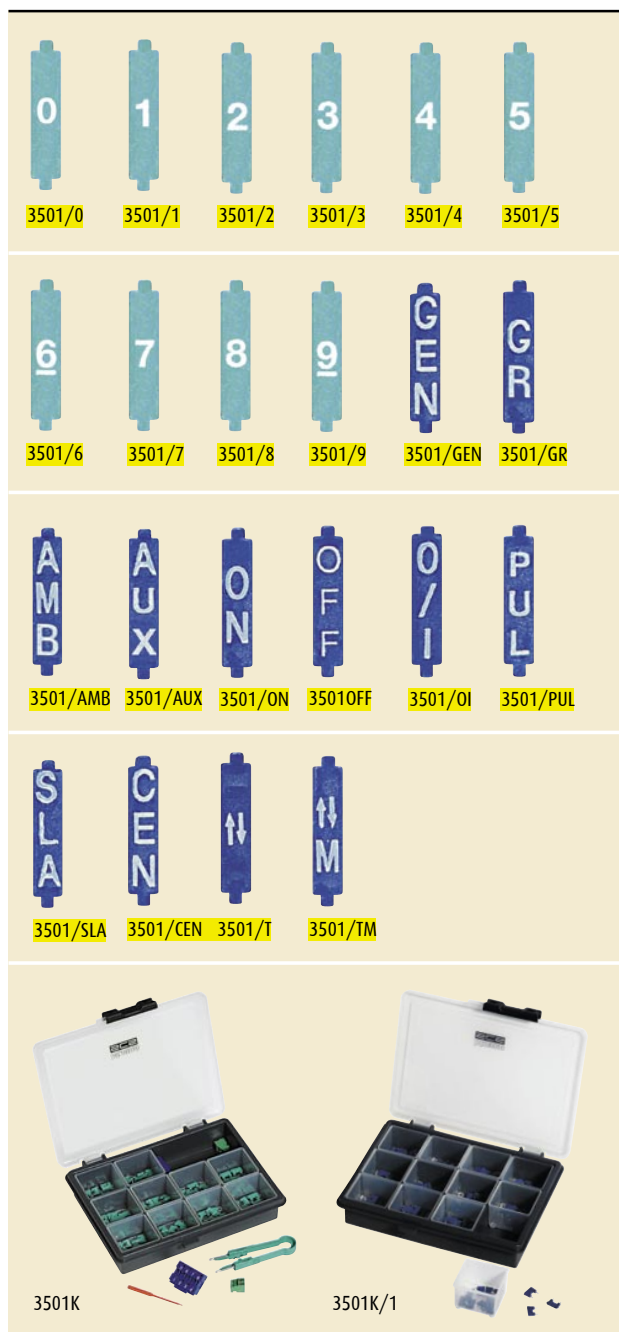
CONFIGURATORS – SINGLE-TYPE PACKAGE OF 10 PIECES

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 $\uparrow\downarrow$
3501/TM	configurator $\uparrow\downarrow$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, $\uparrow\downarrow$, $\uparrow\downarrow$ M

Key covers
AXOLUTE series

1 MODULE

2 functions   1 function

2 MODULES

2 functions   1 function
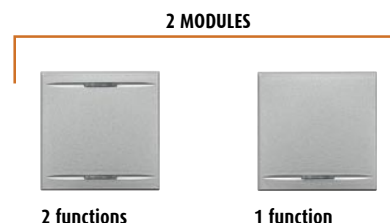
LIGHT FINISH DEVICES

HC4911AF   HC4911/2AF

HC4911AG   HC4911AH
HC4911/2AG   HC4911/2AH

HC4911AI   HC4911BA
HC4911/2AI   HC4911/2BA

HC4911BC   HC4911BE
HC4911/2BC   HC4911/2BE

HC4911   HC4911/2

HC4915   HC4915/2

DARK FINISH DEVICES

HS4911AF   HS4911/2AF

HS4911AG   HS4911AH
HS4911/2AG   HS4911/2AH

HS4911AI   HS4911BA
HS4911/2AI   HS4911/2BA

HS4911BC   HS4911BE
HS4911/2BC   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**	ON – OFF – GEN
HS4911AF	**HS4911/2AF**	
HC4911AG	**HC4911/2AG**	ON – OFF
HS4911AG	**HS4911/2AG**	
HC4911AH	**HC4911/2AH**	UP – DOWN
HS4911AH	**HS4911/2AH**	
HC4911AI	**HC4911/2AI**	ON – OFF adjustment
HS4911AI	**HS4911/2AI**	
HC4911BA	**HC4911/2BA**	Light
HS4911BA	**HS4911/2BA**	
HC4911BC	**HC4911/2BC**	Exhaust fan
HS4911BC	**HS4911/2BC**	
HC4911BE	**HC4911/2BE**	Treble clef
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	DARK FINISH DEVICES

HC4915AA   HC4915/2AA

HS4915AA   HS4915/2AA

HC4915AB   HC4915AC
HC4915/2AB HC4915/2AC

HS4915AB   HS4915AC
HS4915/2AB HS4915/2AC

HC4915AD   HC4915BA
HC4915/2AD HC4915/2BA

HS4915AD   HS4915BA
HS4915/2AD HS4915/2BA

HC4915BB   HC4915BC
HC4915/2BB HC4915/2BC

HS4915BB   HS4915BC
HS4915/2BB HS4915/2BC

HC4915BD   HC4915BE
HC4915/2BD HC4915/2BE

HS4915BD   HS4915BE
HS4915/2BD HS4915/2BE

HC4915BF   HC4915BG
HC4915/2BF HC4915/2BG

HS4915BF   HS4915BG
HS4915/2BF HS4915/2BG

HC4915BH
HC4915/2BH

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

1 MODULE

2 functions   1 function

2 MODULES

2 functions   1 function

LIVING   LIGHT   LIGHT TECH
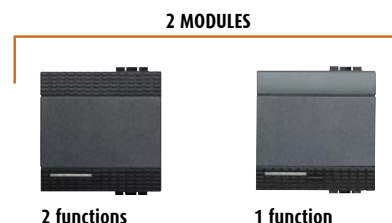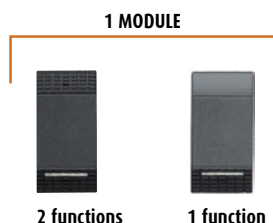
Overview of the silk-screen printing

...AF
...AFM

...AG
...AGM

...AH
...AHM

...AI
...AIM

...BA
...BAM

...BC
...BCM

...BE
...BEM

...BF
...BFM

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

LIVING	LIGHT	LIGHT TECH

Overview of the silk-screen printing

...AA
...AAM

...AB
...ABM

...AC
...ACM

...AD
...ADM

...BA
...BAM

...BB
...BBM

...BC
...BCM

...BD
...BDM

...BE
...BEM

...BF
...BFM

...BG
...BGM

...BH
...BHM

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
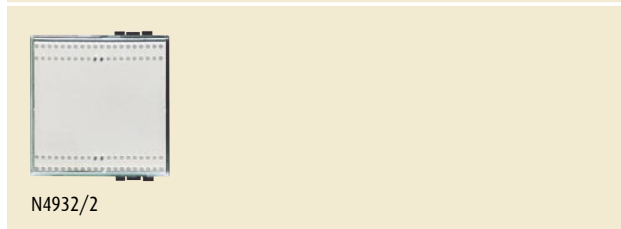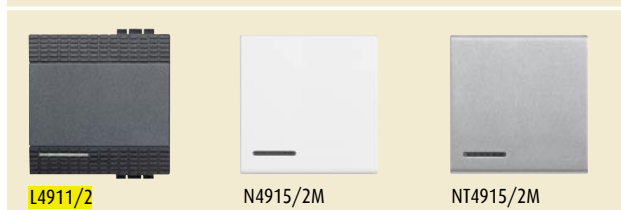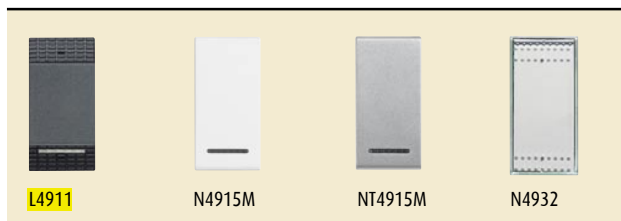
L4911   N4915M   NT4915M   N4932

L4911/2   N4915/2M   NT4915/2M

N4932/2

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
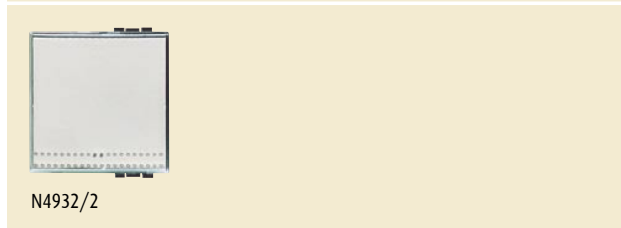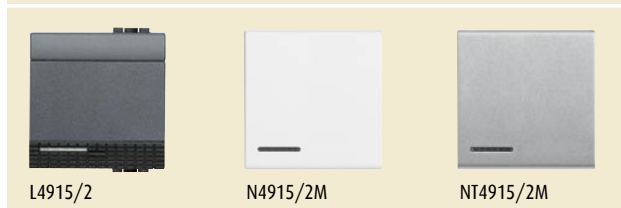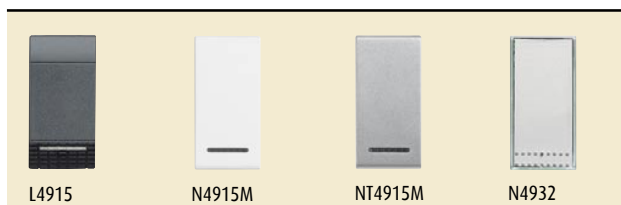
L4915   N4915M   NT4915M   N4932

L4915/2   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

L4932C   N4932C   L4932C/2   N4932C/2
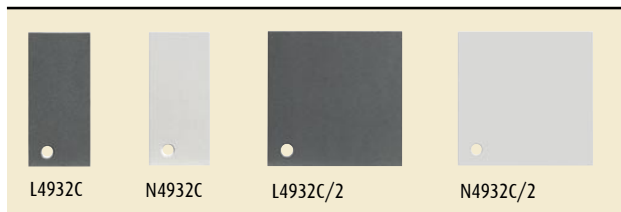
PERSONALISED LABELS FOR KRISTALL KEY COVERS

Item	Description
L4932C	personalised label for KRISTALL transparent key-covers -
N4932C	for SCS control module - 1 module
L4932C/2	personalised label for KRISTALL transparent key-covers -
N4932C/2	for SCS control module - 2 modules