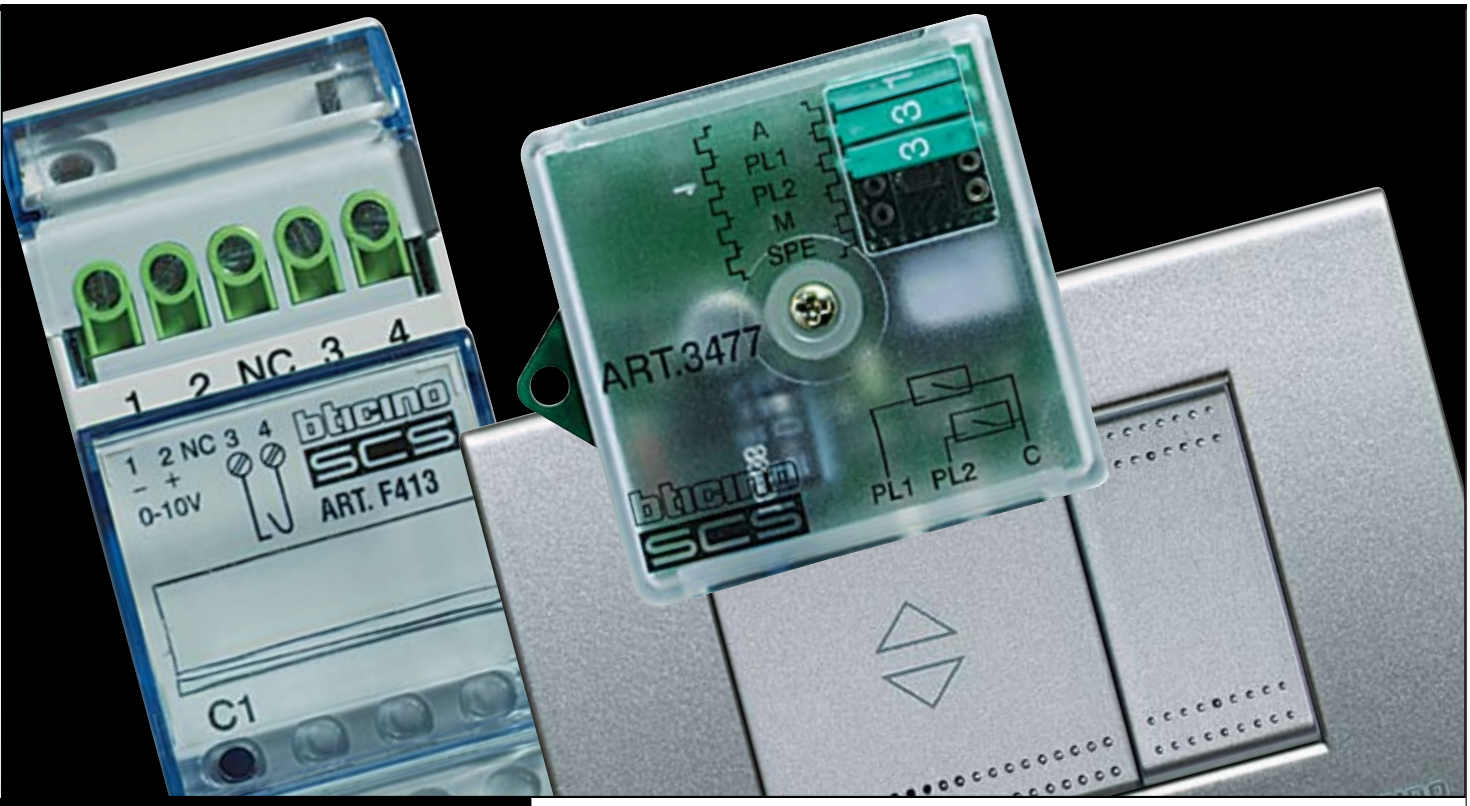
MY HOME - COMFORT AUTOMATION

NEWS

Dimmer for electronic transformers

Touch Screen



SECTION CONTENTS

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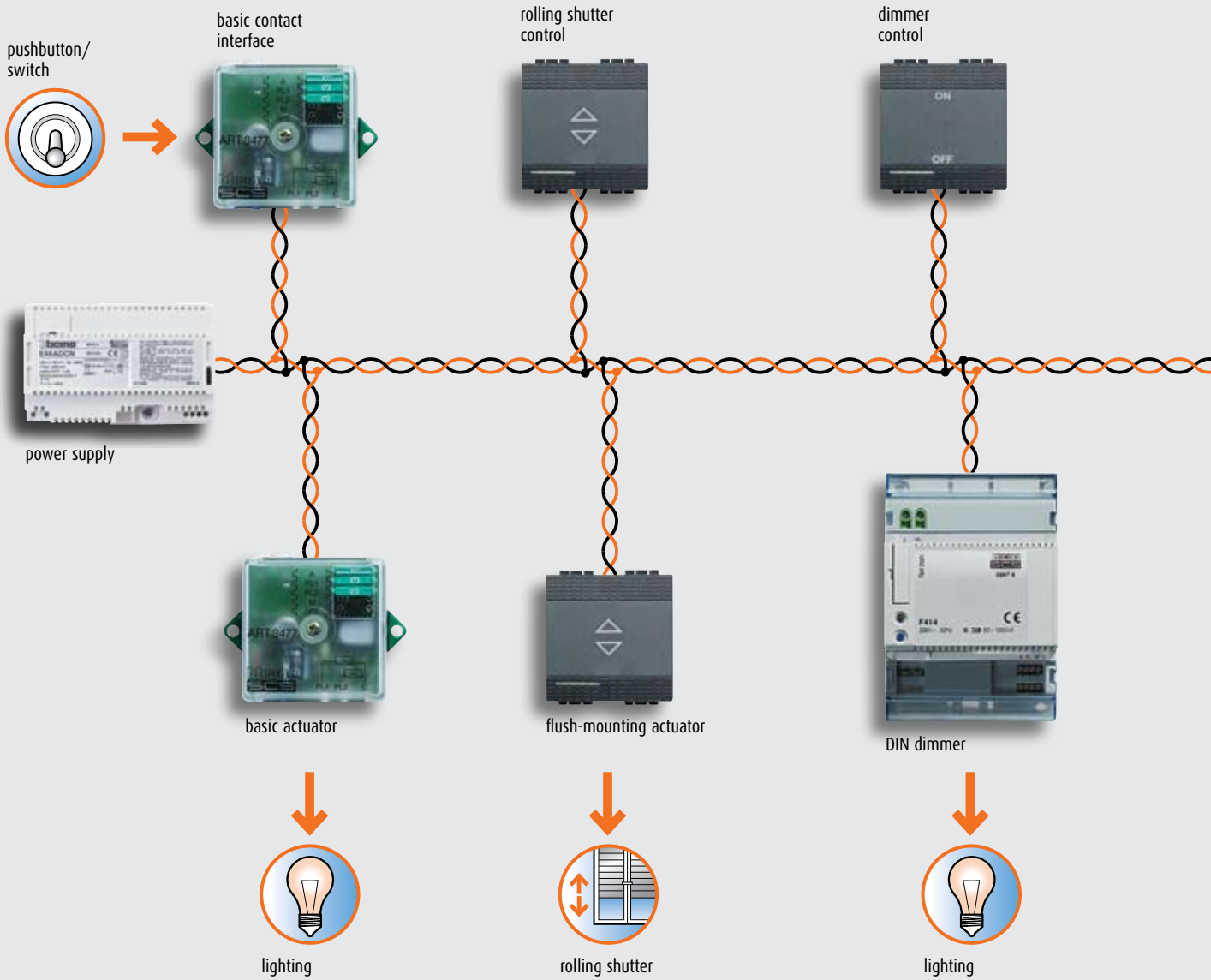
62 **Selection of the actuators**

Automation

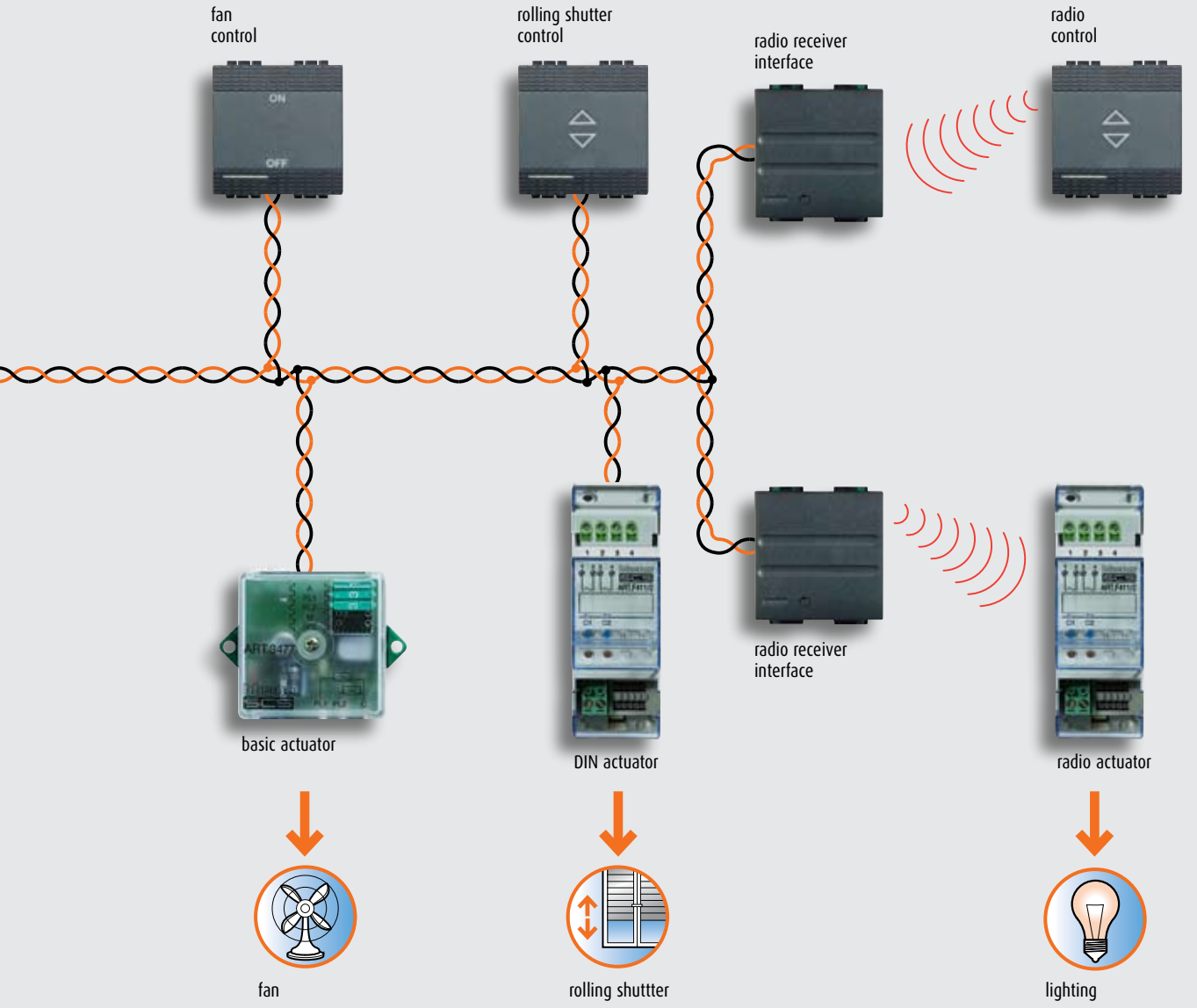
The automation system produced by BTicino can manage functions which up to now were performed by separate and complex systems, at the same time and in an integrated way. These functions include:
- lighting
- operation of rolling shutters, fans and exhaust fans
- infrared controls

Special functions, which can satisfy different domestic comfort needs in a very simple way, can be added to these installation possibilities.
An example is the possibility of calling, by pressing a pushbutton, a scenario which the user can personalise directly at any time (switching on several lamps at the same time, operating some rolling shutters, etc.).



The My Home system can satisfy any installation need in the home. Depending on the need you can choose between two different technologies:
- wire
- radio

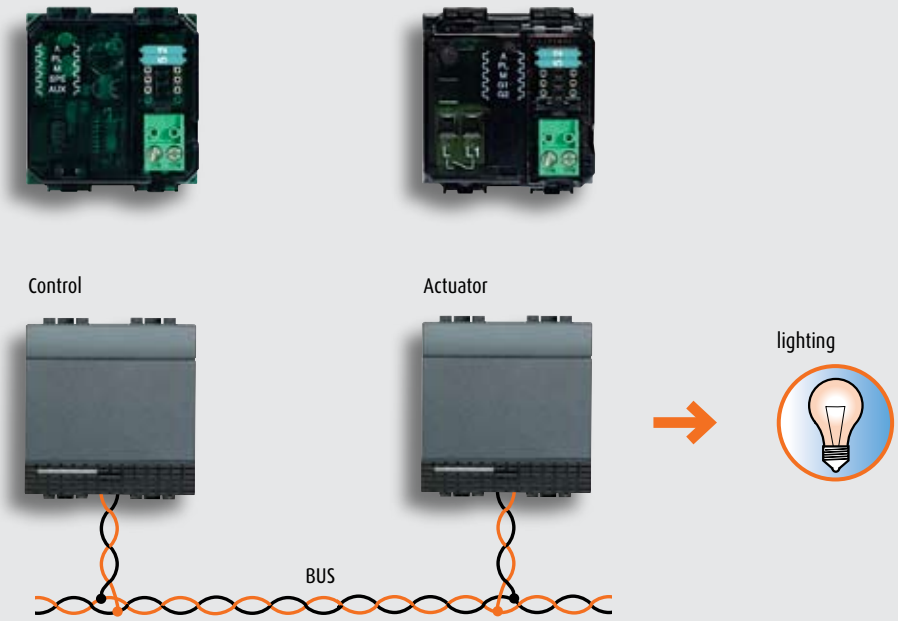
These two technologies can be used at the same time on the same system making a combined radio/ wire system.



Guide to choosing the system

WIRE
The wire system is made up of devices which communicate via the BUS wire; some devices, such as the controls and actuators, perform basic functions, while others, such as the TOUCH SCREEN, perform advanced functions. As well as allowing the devices to communicate the Bus transports their power supply. As the actuator devices must control the loads they must also be connected to the 230V a.c. power line. Selecting the suitable devices one can manage the following systems:
- lighting
- operating rolling shutters, fans and exhaust fans
- infrared controls

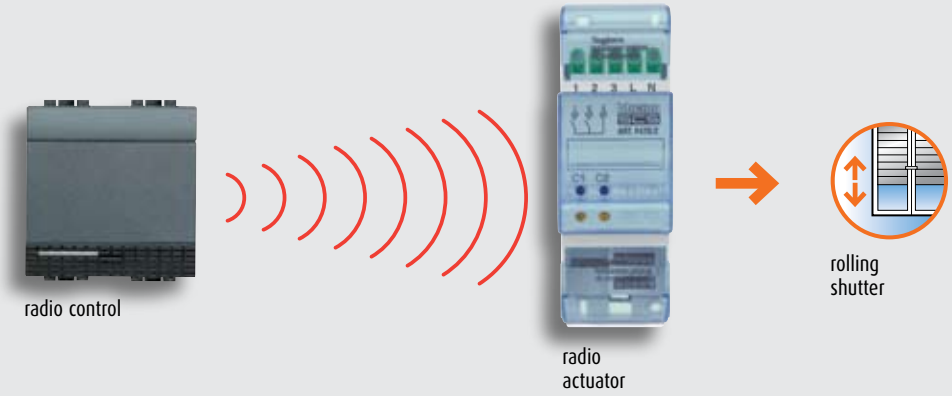
As well as these installation possibilities there are special functions which can satisfy different home comfort needs very simply. An example is the possibility of calling, by pressing a pushbutton, a scenario which the user can directly personalise at any time (switching on several lamps at the same time, operating some shutters, etc.).



RADIO

This system is based on SCS technology but the communication between the various devices is via radio waves and not the Bus. The radio automation system offers the basic house-automation functions only requiring the cabling of the 230V power lines.

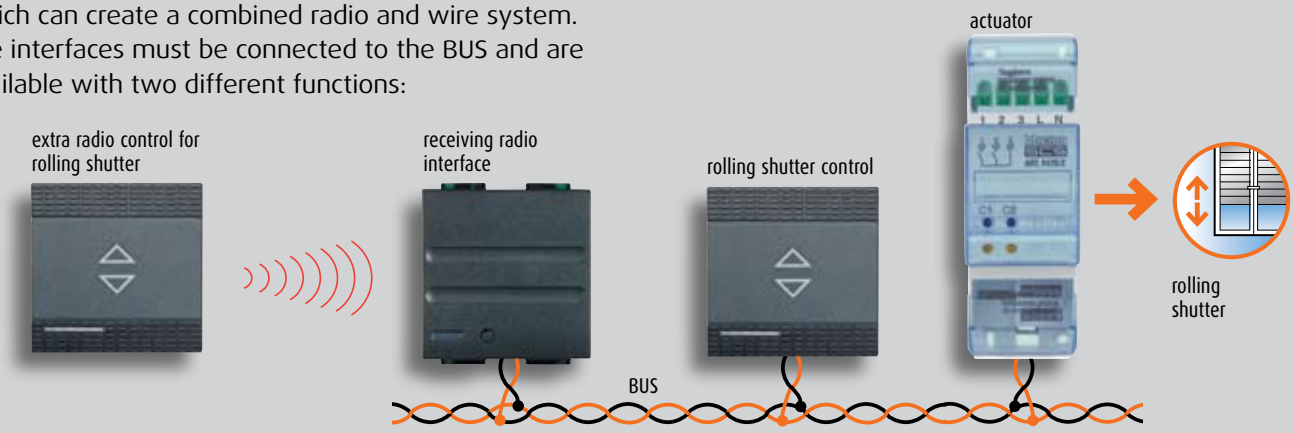
As an example, controlling a rolling shutter requires only an actuator connected to the load and a radio control which can be positioned anywhere in the home. As trunking is not needed there is no need for masonry work for the installation.



COMBINED RADIO/WIRE

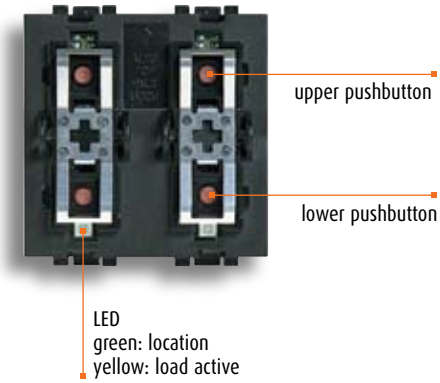
The combination of different technologies is very important because it lets the installer select the best solution to fulfil the customer's needs, in both terms of functionality and respecting the home structures. A particularly interesting application of the radio system is the extension of a system by means of interfaces which can create a combined radio and wire system. The interfaces must be connected to the BUS and are available with two different functions:

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



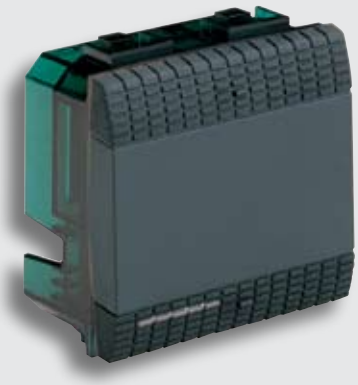
Wire automation

All the controls have LED which signal the control state (on or off) and facilitate identification in the dark.
As a function of the possible modes of operation the control devices can be divided into.
- control devices;
- scenario devices.



BASIC CONTROL DEVICES
The following devices belong in this category:
- two-module control Item L4652/2
- three-module control Item L4652/3
- IR receiver Item L/N/NT4654 for remote control
- passive IR receiver Item L/N/NT4610 and Item L/N/NT4611
- TOUCH SCREEN Item L/N/NT4683

These components can send commands to single loads (lamps, exhaust fans, air conditioners, etc.) and to double loads (motor for rolling shutters, blinds, etc.).
The infrared devices Item L/N/NT4654, Item L/N/NT4610 and Item L/N/NT4611 offer the advantage of sending their command to the BUS when they are activated by a remote control or the presence of a person respectively; instead controls Item L4652/2 and Item L4562/3 must be operated locally by the user and thus must be completed with key covers of the Living International, Light, Light Tech or Kristall series.
The choice of modularity and type of key cover to install is closely connected to the function which the device must perform.


Two-module control Item L4652/2 complete with key cover


IR receiver Item L4654 for remote control

TOUCH SCREEN

The Touch screen is a device which can command the home with the simple touch of a finger. You can switch the lights on and off, lower or raise the rolling shutters, water the garden, adjust the temperature in the various rooms etc., all this from a single point just touching the icons for the various functions which appear on the Touch screen display. The display shows a "home page" which shows graphically the applications which it can manage. Touching the icon of the application to be managed (e.g. lighting), a page will appear where the light point icons have been customised Always with a simple touch on the icon chosen, the lamp or the lamps associated with it will switch on or off. The Touch screen can easily be installed on the wall and is completed with the cover plates of the LIVING INTERNATIONAL, LIGHT or LIGHT TECH series.

CONTROL DEVICES FOR SCENARIOS

Devices which can also perform special and advanced functions belong in this category.
An example is the possibility of saving several commands and activating them by pressing just one key.
The following control devices can perform these functions:

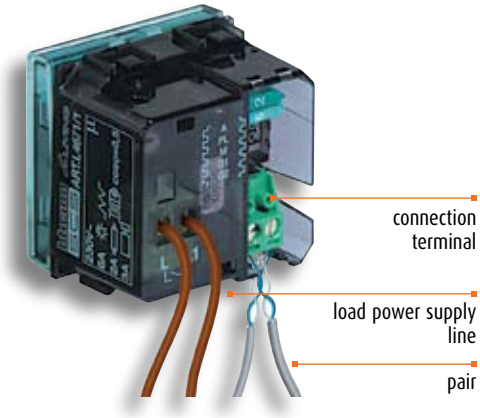
- 2 module control item L4651/2 to be completed with LIVING INTERNATIONAL, LIGHT, LIGHT TECH o KRISTALL key covers;
- TOUCH SCREEN item L/N/NT4683;
- scenario unit Item N4681 with two modules to be completed with Kristall key covers and labels to make a note of the key function.

By means of the two-module command item L4651/2 and the TOUCH SCREEN item L/N/NT4683 scenarios belonging to Automation, Temperature control, Sound System, Door entry and Video door entry applications for one-family systems can be made and checked. The scenario unit item N4681 is instead dedicated just to Automation scenarios.

Scenario unit Item N4681

Wire automation

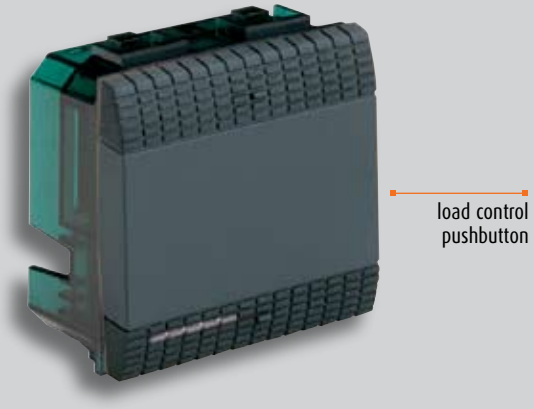
FLUSH-MOUNTING ACTUATORS
Actuators are devices which perform the commands sent to them and control the connected load, like an electromechanical relay.
For this reason, as well as being connected to the BUS cable via the pull-out terminals, they must also be connected to the 230V a.c. load supply line. There are various types of actuator which differ in the power controlled and in the shape, size and installation features.
The range includes:
- 1 module actuators
- 2 module actuators.

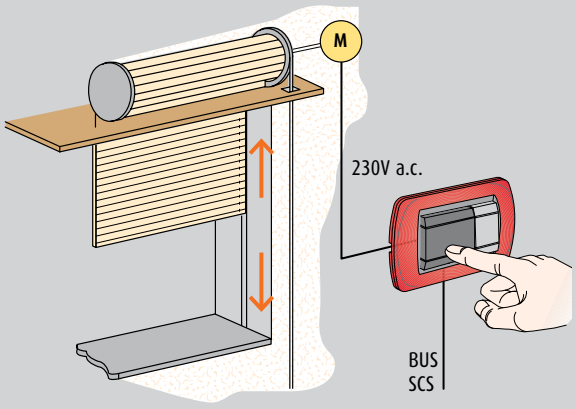


1 MODULE ACTUATORS
These are small and intended for flush-mounting installation by the side of traditional devices (energy sockets, connectors etc.).

These actuators have a micropushbutton to check operation.

2 MODULE ACTUATORS
These are available in versions with 1 and 2 interlocked relays to control 1 single load (lamp or motor) or 1 double load (motor for rolling shutters) respectively. These actuators can be used with advantage as control points, as on the front they have control pushbuttons operated by key covers of the LIVING INTERNATIONAL, LIGHT, LIGHT TECH and KRISTALL series.



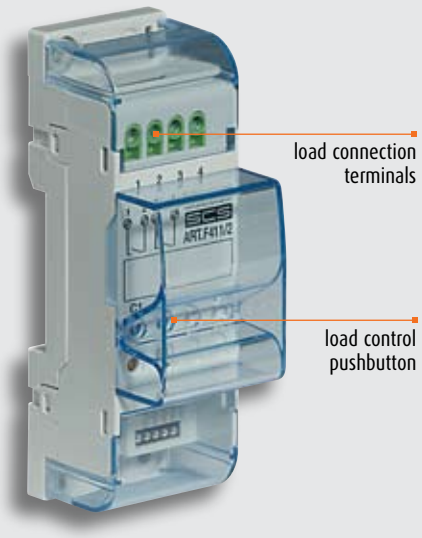


Installing the actuator to control the rolling shutters

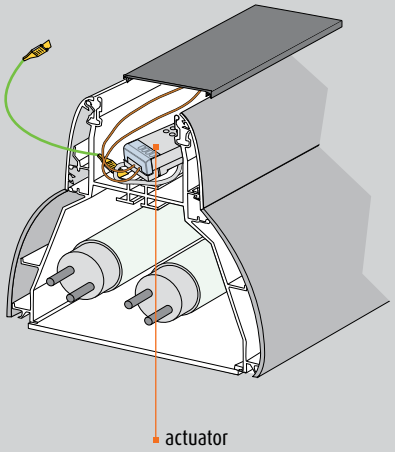
ACTUATORS IN DIN MODULE
These devices are suitable for centralised installation in boards and switchboards (size 2 DIN modules). Available in 1, 2 and 4-relay versions for the command of single or double loads (motors for shutters), these devices also have load control keys to perform the operation test.

These actuators have the advantage that the rear DIN adapter and the front can be removed to make them smaller and thus allow their installation in trunking, junction boxes, false ceilings, rolling shutter boxes, etc. In centralised installations (for example switchboards DIN series E215/... or Multibox) the DIN adapter and the front cover can align the profile of the actuator to that of the other DIN modular devices.

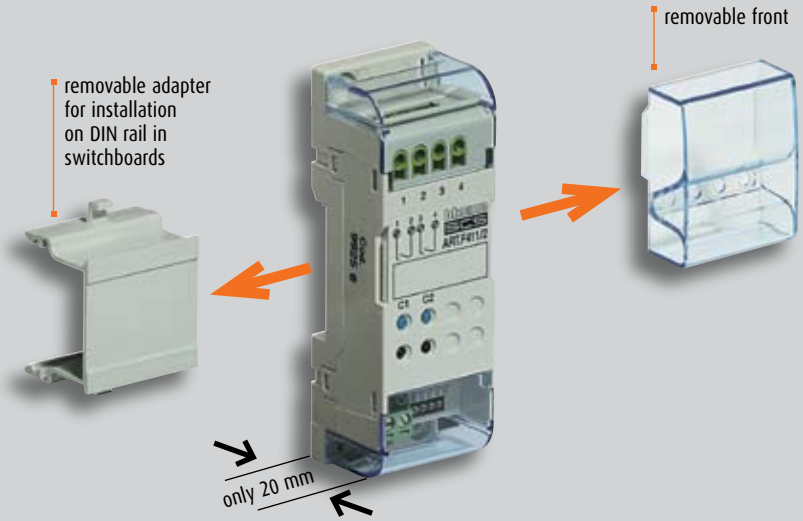
DIN ACTUATOR FOR INSTALLATION IN SWITCHBOARDS

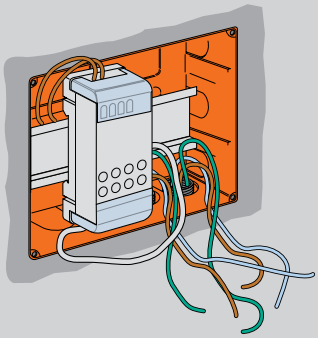


INSTALLATION IN THE INTERLINK TRUNKING



INSTALLATION IN JUNCTION BOXES

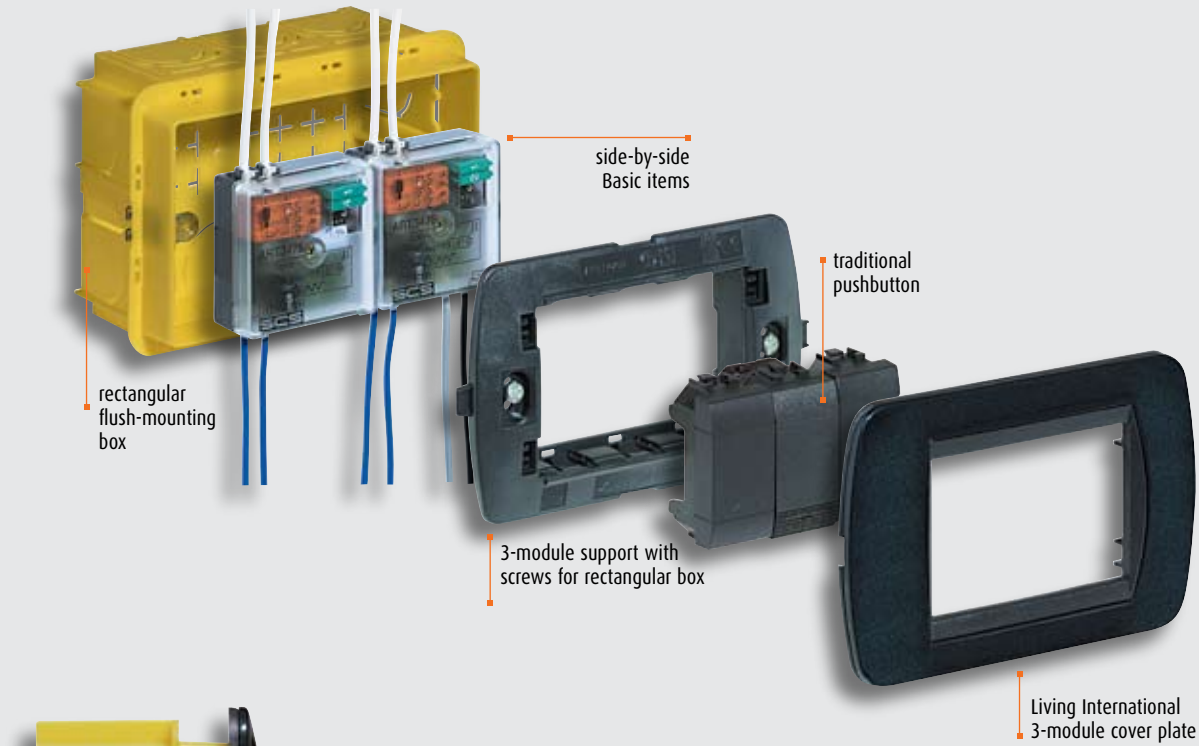


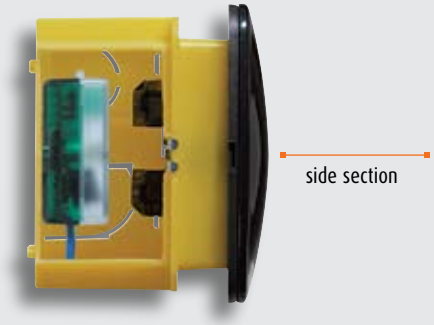


Wire automation

ACTUATORS IN BASIC MODULE
The Basic actuators are extremely compact: width = 40.5 mm, height = 40.5 mm, depth = 18 mm. These sizes allow installation of the actuators in junction boxes or inside the load to be checked (for example in the cups of a ceiling lamp, in the structure of a standard lamp, etc.). The command for two light points (item L4652/2) can also be placed in a 503E box with its Basic actuators. This installation is otherwise possible using a 504E box or finding new spaces where the actuators can be positioned.

EXAMPLE OF INSTALLATION IN FLUSH-MOUNTING BOX





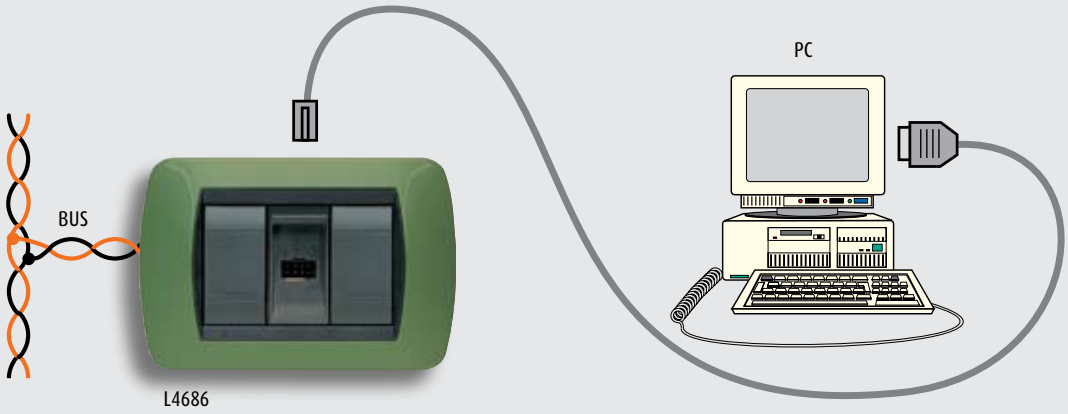
INTERFACES

The automation system, although using specific specially made devices, also allows the use of traditional devices or a personal computer, allowing the opening and the flexibility of use towards outside systems. The connection between the modern Bus digital technology and the traditionally wired component or the PC is represented by special devices called interfaces. These devices in fact interpret the information of the traditional world and translate it into signals which are compatible with the Bus logic devices. The interfaces made are:

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

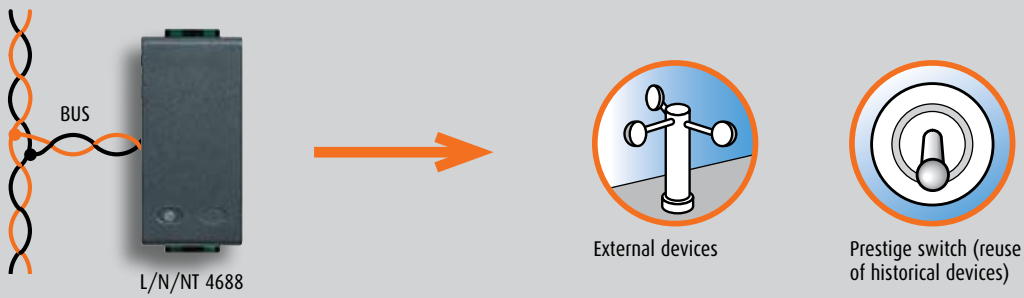
RS232 INTERFACE

This device can connect the Bus to a PC by means of an RS232 connector. By means of specific software the computer is used to command and monitor the BUS logic devices.



LIVING INTERNATIONAL/LIGHT/LIGHT TECH CONTACT INTERFACE

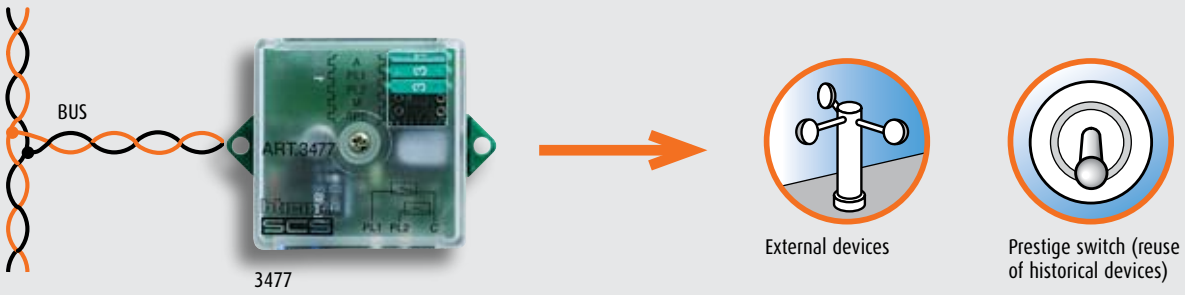
By means of this device traditional components such as switches and pushbuttons can be connected to the Bus, extending the use of the Bus to already existing traditional systems. Thermostats, command devices, humidity sensors, wind sensors etc. can also be interfaced.



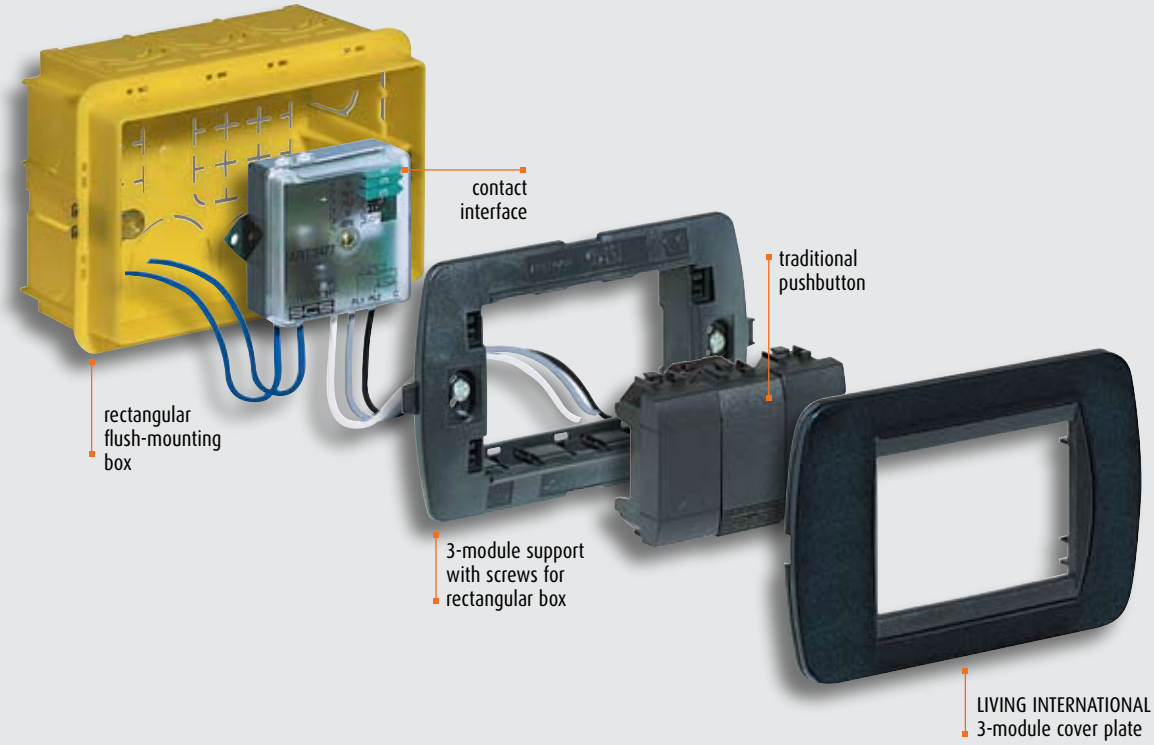
Wire automation

CONTACT INTERFACE IN BASIC MODULES

The main feature of this device, thanks to its small size, is the behind-device mode of installation, in fact in a 503E box the interface can be installed immediately behind the traditional devices (e.g.: switch, pushbutton) or low electronic devices (e.g.: commands, sensors). This installation solution simplifies the conversion of traditional electrical systems to house-automation systems, as the existing flush-mounting boxes can be kept, avoiding making holes in the wall.



EXAMPLE OF INSTALLATION IN FLUSH-MOUNTING BOX

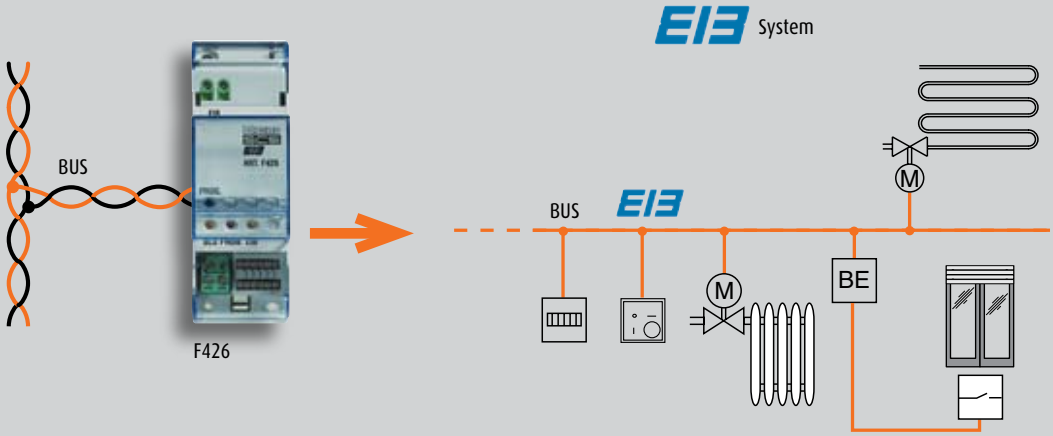


■ SCS/SCS INTERFACE

The item made in DIN container allows the communication between Buses with SCS technology, even if dedicated to different functions (Burglar-alarm, Automation, Door entry and digital Video door entry).

■ SCS/EIB INTERFACE

Using the interface systems based on the SCS technology communicate with eib systems. This item also is made in 2-modules DIN container.



Radio automation

The radio automation system can offer the basic house-automation functions just requiring the wiring of the 230V power lines.
This system is always based on the SCS technology but the various devices no longer communicate on the BUS (pair) but by radio waves.
The radio automation catalogue is made up essentially of:
- a single command
- a light actuator
- a motor actuator (rolling shutters, blinds and shutters).

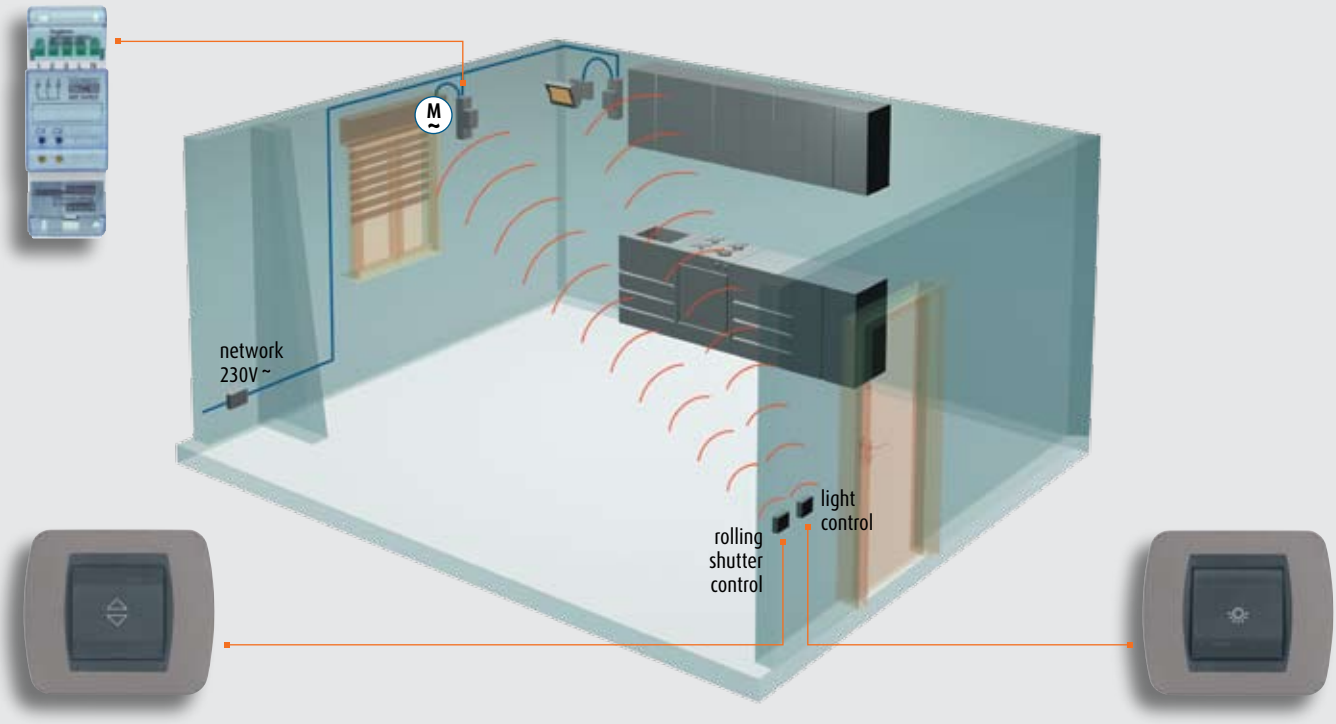
For example to control a rolling shutter or switch on a lamp only requires a actuator connected to the load and a radio control which may be positioned anywhere in the home as it does not need wiring and there is no need to make holes in the wall for the installation.

The main technical features are:
- the lithium control battery, easily available and long lasting (minimum 3 years)
- the command is completed with Living, LIGHT and LIGHT Tech key covers
- the command may be installed on the wall using a shallow box
- the actuators do not have a battery because they are directly supplied by the 230V power line connected to the load to be commanded
- the maximum distances between the devices can reach 100 metres in free area
- the transmissions between the various devices are coded making the whole system immune to disturbances and interference.

The radio system is the ideal solution in all those cases where you cannot or do not want to work on the existing wiring. The main applications are:
- small completely radio systems
- extensions of existing systems (see next section).

RADIO AUTOMATION

Example of system completely made with the radio automation system



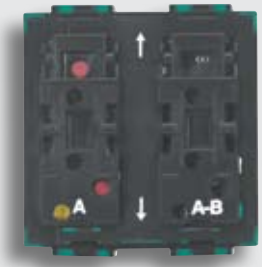
COMMAND

The command may drive actuators for lights or rolling shutters. This device only activates when the pushbutton is pressed: in this way the battery has a minimum guaranteed lifetime of three years. Moreover it is easily obtainable, as it is a common camera battery (type CR2).

ACTUATORS

There are two types of actuators: the first for traditional or compact fluorescent lamps, the second to command motors (rolling shutters, blinds, shutters or lamps).
Each actuator may be commanded by various radio commands (maximum 16).

If the batteries are flat the actuator can be operated manually by means of a special pushbutton on the front cover of the item.
Each radio command may control several actuators, a very useful feature whenever you want to switch on several lamps from a single point.
The actuator can also be controlled by several radio commands so that for example the shutters can be controlled from several points in the building.

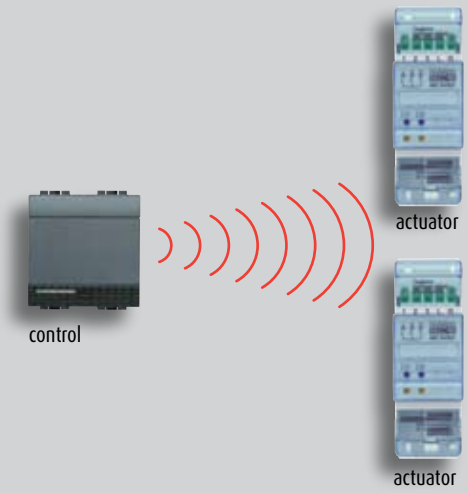


Radio control to be completed with key covers

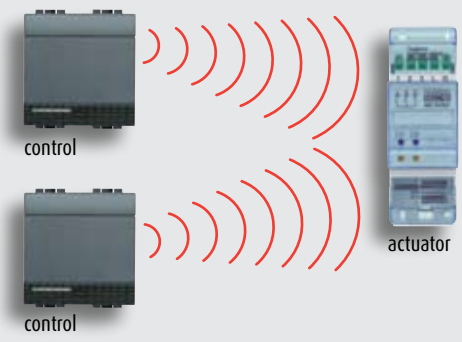
Light actuator

Rolling shutter actuator

A COMMAND MAY CHECK SEVERAL ACTUATORS



AN ACTUATOR CAN BE CONTROLLED FROM A MAX. OF 16 CONTROLS



Radio automation

RADIO AND WIRE COMBINED SYSTEM

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

Combining different transmitting technologies is very important because it means that every time the installer can choose the best solution to fulfil the customer's requirements both in terms of functionality and in respecting the building's structure.

For this purpose interfaces are available which can create a combined radio and wire system.

The catalogue is made up of two different interfaces:

- a receiving interface which can command any wire system actuator by means of a radio command
- a transmitting interface which can command any radio system actuator by means of a wire system command.

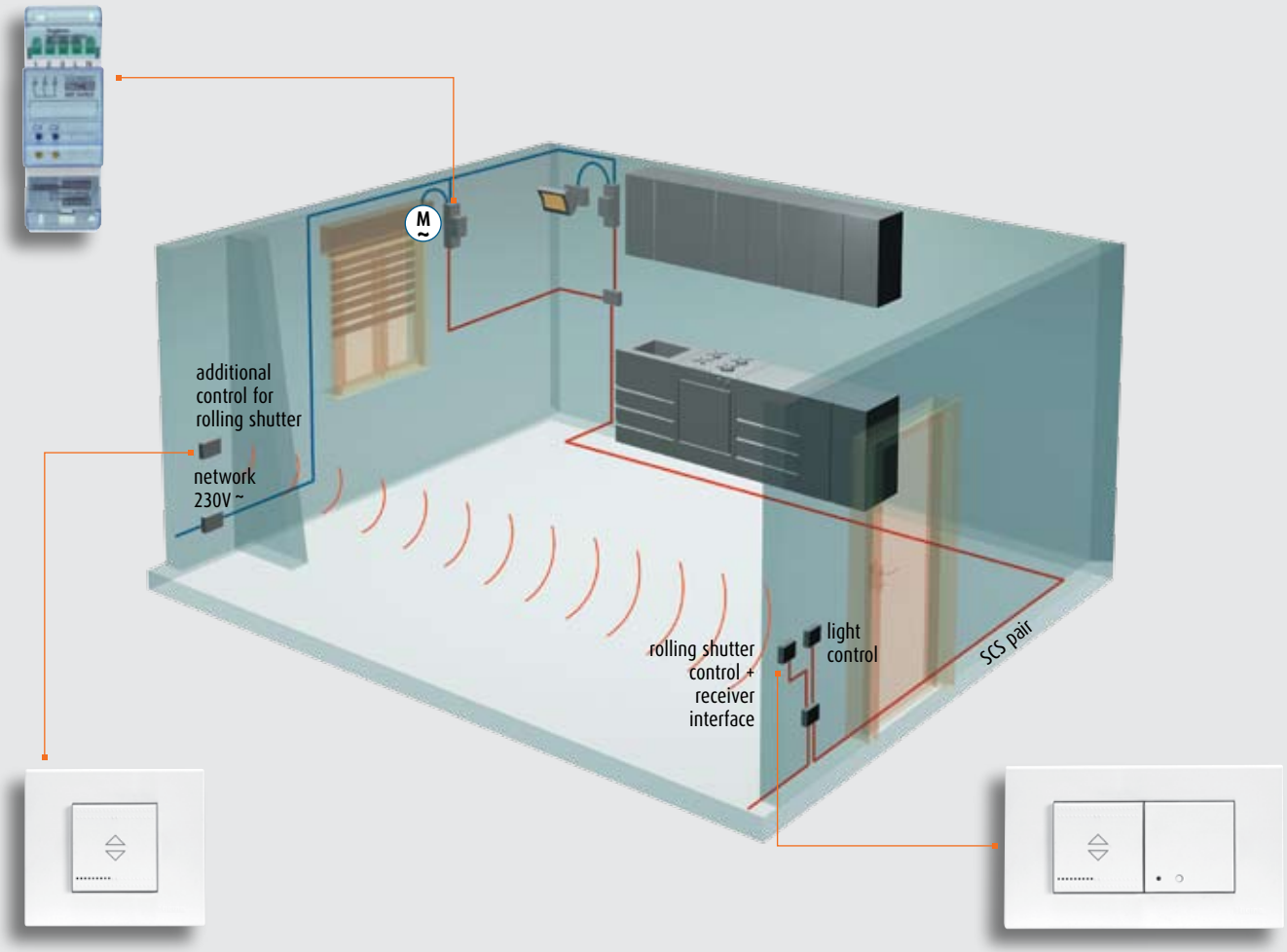
These devices must be connected to the BUS and are available with LIVING INTERNATIONAL and LIGHT finishes.

An application example is the expansion of an already existing wire system without making holes in the wall thanks to the addition of radio devices.

Also in offices with movable walls it may be useful to put the wire system actuators in a false ceiling and use the radio commands, which can be moved easily whenever you want to change the office layout.

RADIO AND WIRE AUTOMATION

Example of wire system with a radio control



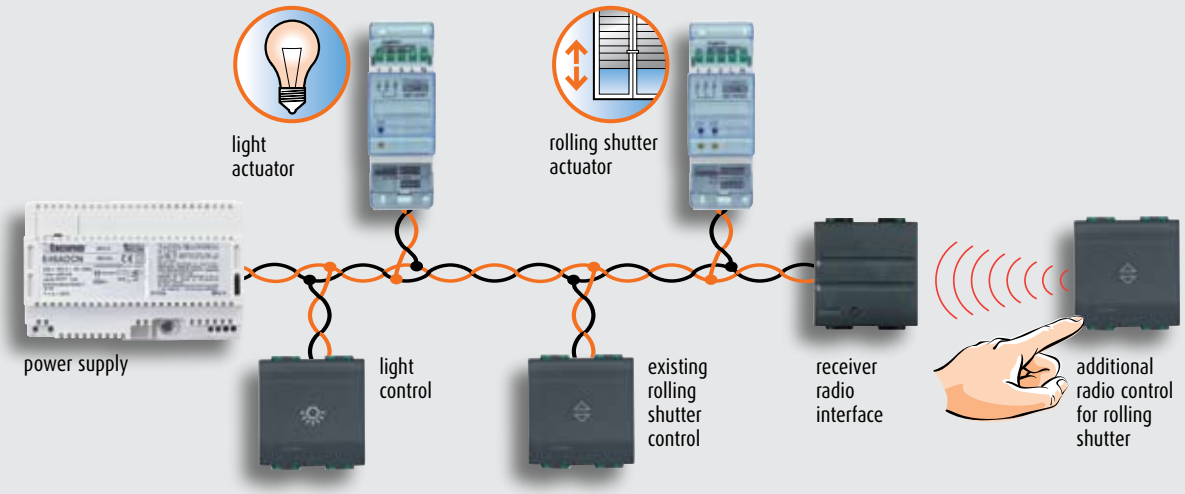
INTERFACES TOWARDS THE WIRE SYSTEM

These items are added to the wire system to combine all the radio devices.
The combination between the two systems is complete: the actuators and commands of both systems can coexist in the same system and communicate, contributing to offering the maximum flexibility of installation.

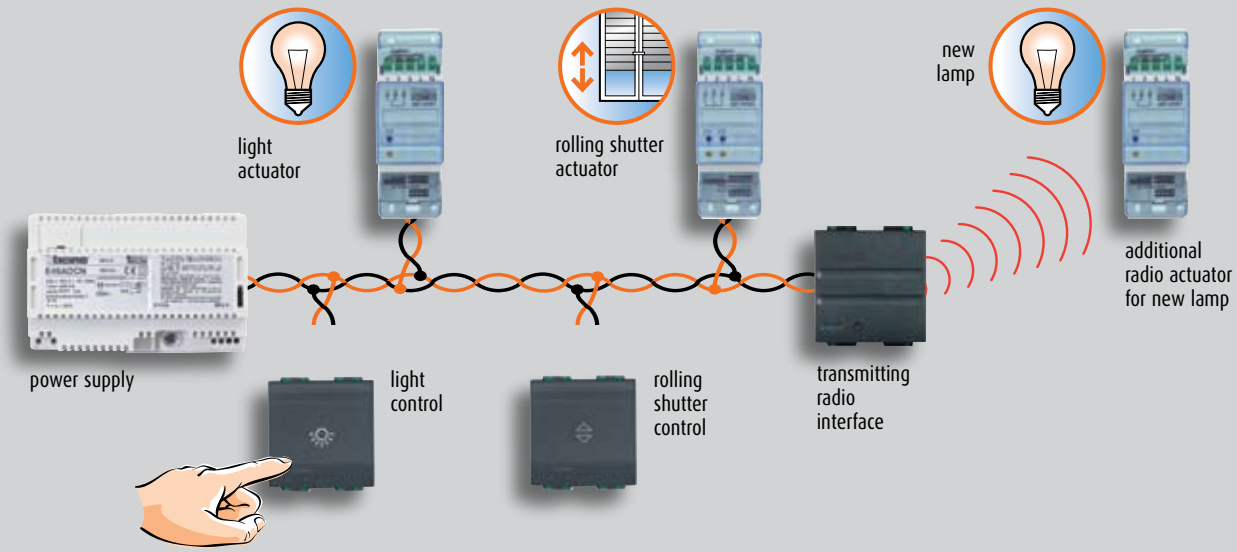
LIVING INTERNATIONAL series interface

LIGHT series interface

Example of a system with modified bus wire with the addition of a radio command to control the rolling shutter



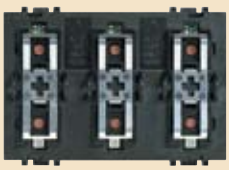
Example of a system with modified bus wire with the addition of an actuator radio to control a new lamp



Wire automation


L4651/2


L4652/2


L4652/3


N4681


L4683
N4683
NT4683

CONTROL FOR SPECIAL FUNCTIONS

Item	Description
L4651/2	control which can drive just one actuator for single or double loads – to be completed with 1 two-module key cover for controls with one or two functions - can realize special functions

CONTROLS FOR SINGLE AND DOUBLE LOADS

Item	Description
L4652/2	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
L4652/3	control which can drive three actuators for single or double loads or two actuators for single loads or independent double loads – to be completed with 3 1-module key covers for controls with one or two functions

SCENARIO UNIT/TOUCH SCREEN

Item	Description
N4681	unit which can be personalised to save and control 4 independent "room situations" – acts simultaneously on several actuators chosen by the user – LED to indicate the active scenario
L4683 **N4683** **NT4683**	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.


L4654


N4654


NT4654


4482/7


4482/16

ACTIVE INFRARED RECEIVERS

Item	Description
L4654	receiver for the remote control of the actuators – to control 4 single loads or 2 double independent loads - to be used with remote control - the 4 scenario unit keys can be controlled by means of remote control
N4654	as above - LIGHT series
NT4654	as above - LIGHT TECH series

REMOTE CONTROLS

For IR receivers Item L4654, Item N4654 and Item NT4654

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

L4610 N4610 NT4610

L4611 N4611 NT4611

PASSIVE INFRARED DETECTORS

Item	Description
L4610	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
N4610	as above - LIGHT series
NT4610	as above - LIGHT TECH series
L4611	volumetric presence detector as above - covering angle that can be divided from 105° to 0° - lens that can be orientated on 2 axis
N4611	as above - LIGHT series
NT4611	as above - LIGHT TECH series

L4671/1 L4671/2 L4674

L4672 N4672 NT4672

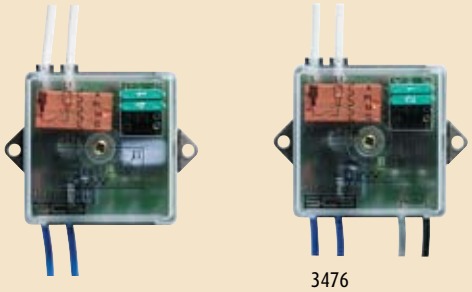
L4675 N4675 NT4675

FLUSH-MOUNTING ACTUATORS

Item	Description
L4671/1	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
L4671/2	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
L4674	actuator to drive a "slave" dimmer Item L/N4416 and Item NT4416 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
L4672 **N4672** **NT4672**	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
L4675 **N4675** **NT4675**	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 by the side of the control devices

Wire automation

F411/1N F411/2 F411/4 F412



3475 3476

F413

F414 F414/127 F415 F415/127

ACTUATORS FOR DIN CENTRALISATIONS – 2 MODULES

Item	Description
F411/1N	actuator with 1 two-way relay – for single loads; 16A resistive, 10A incandescence lamps, 4A cosφ 0.5 for ferromagnetic transformers and 4A fluorescent lamps
F411/2	actuator with 2 independent relays – for single and double loads: 6A resistive or incandescence lamps, 500W for reducer motors, 2A cosφ 0.5 for ferromagnetic transformers and 150W for fluorescent lamps – logic relay interlock via configuration
F411/4	actuator with 4 independent relays – for single, double or combined loads: 6A resistive, 2A incandescence lamps, 500W for reducer motors, 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 incandescence lamps and 4A for fluorescent lamps or transformers

BASE MODULE ACTUATORS

Item	Description
3475	actuator with 1 relay - for single loads: 2A resistive or incandescent lamps and 2A cos 0.5 for ferromagnetic transformers - suitable for installation in ceiling lamps cups or in flush-mounting boxes behind the command devices.
3476	actuator with 1 relay - for single loads: 2A resistive or incandescent lamps, 2A cos 0.5 for ferromagnetic transformers - a traditional pushbutton with NO contact accepted in input

OUTPUT 1 TO 10V FOR BALLAST - 2 DIN MODULES

Item	Description
F413	the device is an actuator/dimmer for electronic ballasts which can be dimmed type 8 with input 1 to 10V to drive fluorescent lamps

DIMMER ACTUATORS - 4 DIN MODULES

Item	Description
F414	dimmer actuator for incandescence lamps and ferromagnetic transformers – 60 to 1000VA 230Vac
F414/127	as above – 60 to 1000VA 110/127Vac 50/60Hz - 60 to 2000VA 220/230Vac 50/60Hz
F415	dimmer actuator for electronic transformers - 60 to 400VA 230Vac
F415/127	as above – 100 to 400VA 110/127Vac 50/60Hz

L4686

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

336983 336982 336984

CONNECTORS FOR INTERFACE ITEM L4686

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

L4688 N4688 NT4688 3477

INTERFACE FOR TRADITIONAL DEVICES

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 series
NT4688	as above – LIGHT TECH series
3477	as above - BASIC module

F422 F426

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

F425 F420

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

L4671/2KIT

KIT – CONTROL AUTOMATION SYSTEM

Item	Description
L4671/2KIT	package to produce the control of 5 rolling shutters plus one or two centralised controls with LIVING INTERNATIONAL or LIGHT finish (content: 1 E46ADCN power supply, 1 double control L4652/2, 5 actuators with control L4671/2, 6 LIVING INTERNATIONAL key covers, 6 LIGHT key covers, configurators, accessories)

Radio automation

L4571/1

CONTROL

Item	Description
L4571/1	radio control to be completed with two-module LIVING INTERNATIONAL, LIGHT or LIGHT TECH key cover with one or two functions – supplied with a 3V CR2 lithium battery (supplied)

F470/1

F470/2

DIN ACTUATORS

Item	Description
F470/1	two-way actuator with 1 relay - for single loads: 6A resistive or incandescence lamps, 3A cosφ 0.5 for ferromagnetic transformers and 150W for power factor corrected fluorescent lamps with traditional or electronic igniter – supplied directly from the 230V 50Hz mains – 2 DIN modules
F470/2	Actuator with 2 relays: 6A resistive, 2A incandescence lamps, 500W for reducer motors, 2A cosφ 0.5 for ferromagnetic transformers – supplied directly from the 230V 50Hz mains – 2 DIN modules

L4575

N4575

RADIO INTERFACES

Item	Description
L4575	LIVING INTERNATIONAL series receiving radio interface – power supply 27 Vdc from the BUS – 2 modules
N4575	as above - LIGHT series
L4576	LIVING INTERNATIONAL series transmitting radio interface – power supply 27 Vdc from the BUS – 2 modules
N4576	as above - LIGHT series

L4576

N4576

Power supply and accessories

E46ADCN
E46ADCN/110
E46ADCN/127

L4669
L4669/500

3515

POWER SUPPLY

Item	Description
E46ADCN	power supply for automation system – input 230V a.c. output 27V d.c. SELV – maximum current absorbed 300 mA – maximum current supplied 1.2A version for fastening on DIN rail occupying 8 modules
E46ADCN/110	as above - input 110V a.c.
E46ADCN/127	as above - input 127V a.c.

BUS CABLE

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

PULL-OUT TERMINALS

Item	Description
3515	spare part pull-out terminals

502LPA

502NPA

504LIV

F80AL

WALL-MOUNTING BOXES FOR MODULAR DEVICES

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

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

TABLE DEVICE-HOLDERS

Item	Description
504LIV*	table device holders – 4 LIVING INTERNATIONAL modules – complete with surround plate

* items suggested for radio device installation

ADAPTERS

Item	Description
F80AL	adapters for the installation of 2 LIVING INTERNATIONAL/LIGHT modules on DIN35 rail
F400A	as above - 3 modules

F496/PR

F496/MF

F496/PF

F496/FF

ACCESSORIES FOR HOUSE AUTOMATION PANEL

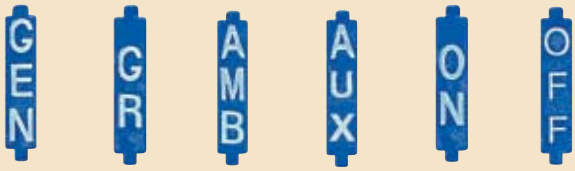
Item	Description
F496/PR	shallow section for DIN 35 rail
F496/MF	clips for fastening on DIN 35 rail (10 pieces)
F496/PF	fastening plate on DIN 35 rail
F496/FF	fastening clamps (10 pieces)

Configurators

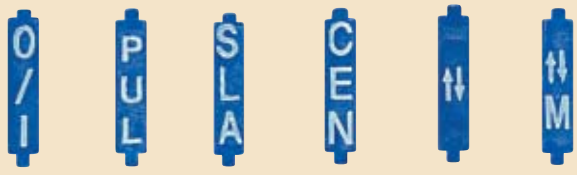
3501A - 3501B - 3501C
3501D - 3501E - 3501F

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 – MIXED PACKAGE

Item	Description
3501A	set of configurators from 5 to 9 (5 pieces for each number)
3501B	set of configurators from 1 to 4 (10 pieces for 1 and 2 - 5 pieces for 3 and 4)
3501C	set of AUX, GEN, GR configurators (5 pieces) and AMB (ROOM) (10 pcs)
3501D	set of ON, OFF configurators (10 pieces) and O/I, PUL (PUSH) (5 pieces)
3501E	set of ↑↓, ↑↓ M configurators (10 pieces)
3501F	set of SLA and CEN configurators (10 pieces)

Note: Available until stocks run out.

CONFIGURATORS – SINGLE-TYPE PACKAGE OF 10 PIECES

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

Key covers

LIVING INTERNATIONAL | LIGHT | LIGHT TECH

Overview of the silk-screen printing

...AF .../2AF | ...AG .../2AG | ...AH .../2AH | ...AI .../2AI

...BA .../2BA | ...BC .../2BC | ...BE .../2BE | ...BF

LIGHTABLE KEY COVERS

with silk-screen printing - 2 functions - 1 module

Item			Description of silk-screen printing
LIVING INTERNATIONAL	LIGHT	LIGHT TECH	
L4911AF	**N4911AF**	**NT4911AF**	ON OFF GEN
L4911AG	**N4911AG**	**NT4911AG**	ON OFF
L4911AH	**N4911AH**	**NT4911AH**	UP DOWN
L4911AI	**N4911AI**	**NT4911AI**	ON OFF setting
L4911BA	**N4911BA**	**NT4911BA**	Light symbol
L4911BC	**N4911BC**	**NT4911BC**	Exhaust fan symbol
L4911BE	**N4911BE**	**NT4911BE**	Treble clef symbol
L4911BF	**N4911BF**	**NT4911BF**	Sound system function

LIGHTABLE KEY COVERS

with silk-screen printing - 2 functions - 2 modules

Item			Description of silk-screen printing
LIVING INTERNATIONAL	LIGHT	LIGHT TECH	
L4911/2AF	**N4911/2AF**	**NT4911/2AF**	ON OFF GEN
L4911/2AG	**N4911/2AG**	**NT4911/2AG**	ON OFF
L4911/2AH	**N4911/2AH**	**NT4911/2AH**	UP DOWN
L4911/2AI	**N4911/2AI**	**NT4911/2AI**	ON OFF setting
L4911/2BA	**N4911/2BA**	**NT4911/2BA**	Light symbol
L4911/2BC	**N4911/2BC**	**NT4911/2BC**	Exhaust fan symbol
L4911/2BE	**N4911/2BE**	**NT4911/2BE**	Treble clef symbol

Key covers

LIVING INTERN. LIGHT LIGHT TECH

Overview of the silk-screen printing

...AA .../2AA | ...AB .../2AB | ...AC .../2AC

...AD .../2AD | ...BA .../2BA | ...BB .../2BB

...BC .../2BC | ...BD .../2BD | ...BE .../2BE

...BF .../2BF | ...BG .../2BG | ...BH .../2BH

LIGHTABLE KEY COVERS

with silk-screen printing – 1 function – 1 module

Item			Description of silk-screen printing
LIVING INTERNATIONAL	LIGHT	LIGHT TECH	
L4915AA	N4915AA	NT4915AA	OFF
L4915AB	N4915AB	NT4915AB	ON
L4915AC	N4915AC	NT4915AC	GEN
L4915AD	N4915AD	NT4915AD	dimmer symbol
L4915BA	N4915BA	NT4915BA	lamp symbol
L4915BB	N4915BB	NT4915BB	bell symbol
L4915BC	N4915BC	NT4915BC	exhaust fan symbol
L4915BD	N4915BD	NT4915BD	key symbol
L4915BE	N4915BE	NT4915BE	treble clef symbol
L4915BF	N4915BF	NT4915BF	nurse symbol
L4915BG	N4915BG	NT4915BG	room service symbol
L4915BH	N4915BH	NT4915BH	ALARM

LIGHTABLE KEY COVERS

with silk-screen printing – 1 function – 2 modules

Item			Description of silk-screen printing
LIVING INTERNATIONAL	LIGHT	LIGHT TECH	
L4915/2AA	**N4915/2AA**	**NT4915/2AA**	OFF
L4915/2AB	**N4915/2AB**	**NT4915/2AB**	ON
L4915/2AC	**N4915/2AC**	**NT4915/2AC**	GEN
L4915/2AD	**N4915/2AD**	**NT4915/2AD**	dimmer symbol
L4915/2BA	**N4915/2BA**	**NT4915/2BA**	lamp symbol
L4915/2BB	**N4915/2BB**	**NT4915/2BB**	bell symbol
L4915/2BC	**N4915/2BC**	**NT4915/2BC**	exhaust fan symbol
L4915/2BD	**N4915/2BD**	**NT4915/2BD**	key symbol
L4915/2BE	**N4915/2BE**	**NT4915/2BE**	treble clef symbol
L4915/2BF	**N4915/2BF**	**NT4915/2BF**	nurse symbol
L4915/2BG	**N4915/2BG**	**NT4915/2BG**	room service symbol
L4915/2BH	**N4915/2BH**	**NT4915/2BH**	ALARM


L4915


N4915


NT4915


N4932

LIGHTABLE KEY COVERS

without silk-screen printing - 1 function - 1 module

Item			Description of silk-screen printing
LIVING INTERNATIONAL	LIGHT	LIGHT TECH	KRISTALL
L4915	**N4915**	**NT4915**	**N4932**


L4915/2


N4915/2


NT4915/2

LIGHTABLE KEY COVERS

without silk-screen printing - 1 function - 2 modules

Item			Description of silk-screen printing
LIVING INTERNATIONAL	LIGHT	LIGHT TECH	KRISTALL
L4915/2	**N4915/2**	**NT4915/2**	**N4932/2**


N4932/2


L4911


N4911


NT4911


N4932

LIGHTABLE KEY COVERS

without silk-screen printing - 2 functions - 1 module

Item			Description of silk-screen printing
LIVING INTERNATIONAL	LIGHT	LIGHT TECH	KRISTALL
L4911	**N4911**	**NT4911**	**N4932**


L4911/2


N4911/2


NT4911/2

LIGHTABLE KEY COVERS

without silk-screen printing - 2 functions - 2 modules

Item			Description of silk-screen printing
LIVING INTERNATIONAL	LIGHT	LIGHT TECH	KRISTALL
L4911/2	**N4911/2**	**NT4911/2**	**N4932/2**


N4932/2


L4932C


N4932C


L4932C/2

N4932C/2

PERSONALISED LABELS FOR KRISTALL KEY COVERS

Item	Description
L4932C **N4932C**	personalised labels for Kristall clear key covers - for SCS control module - 1 module
L4932C/2 **N4932C/2**	personalised labels for Kristall clear key covers - for SCS control module - 2 modules

TECHNICAL FEATURES
Selection of the actuators

WIRE-BASIC-RADIO AUTOMATION

The table allows identification of the actuator device depending on what it is to be used for, the electrical features of the load to be commanded and the installation features.

Table of the loads

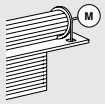
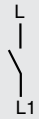
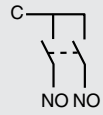
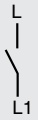
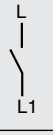
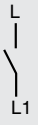
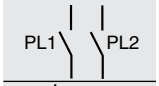
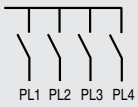
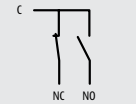
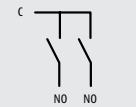
Actuators	Frequency	Line	Loads driven					
			 Incandescence lamps	 Resistive loads	Fluorescent lamps 1)	 Electronic transformers	 Ferromagnetic transformer 2)	 Motors for rolling shutters
L4671/1 	50/60 Hz	230V a.c.	6A 1400W	6A 1400W	0.65A 150W	0.65A 150W	2Acosφ0.5 500W	- -
L4671/2 	50/60 Hz	230V a.c.	- -	- -	- -	- -	- -	2A 500W
L/N/NT4672 **F412** 	50/60 Hz	230V a.c.	10A 2300W	16A 3500W	4A 1000W	4A 1000W	4Acosφ0.5 1000W	- -
L4674	50 Hz	230V a.c.	0.25 to 2A 60 to 500W (with Item L/N/NT4416)	0.25 to 2A 60 to 500W (with Item L/N/NT4416)	- -	- -	0.25 to 2A 60 to 500W (with Item L/N/NT4416)	- -
L/N/NT4675 	50/60 Hz	230V a.c.	2A 500W	2A 500W	- -	- -	2Acosφ0.5 500W	- -
3475 **3476** 	50/60 Hz	230V a.c.	2A 500W	2A 500W	- -	- -	2Acosφ0.5 500W	- -
F411/1N 	50/60 Hz	230V a.c.	10A 2300W	16A 3500W	4A 1000W	4A 1000W	4Acosφ0.5 1000W	- -

Table of the loads

Actuators	Frequency	Line	Loads driven					
F411/2 	50/60 Hz	230V a.c.	6A 1400W	6A 1400W	0.65A 150W	0.65A 150W	2Acosφ0.5 500W	2A 500W
F411/4 	50/60 Hz	230V a.c.	2A 500W	6A 1400W	0.3A 70W	0.3A 70W	2Acosφ0.5 500W	2A 500W
F414	50 Hz	220V a.c. 230V a.c.	0.25 to 4A 60 to 1000W	0.25 to 4A 60 to 1000W	- -	- -	0.25 to 4A 60 to 1000VA	- -
	60 Hz		0.25 to 3.4A 60 to 800W	0.25 to 3.4A 60 to 800W	- -	- -	0.25 to 3.4A 60 to 800VA	- -
F414/127	50/60 Hz	110V a.c. 127V a.c.	0.5 to 8A 60 to 1000W	0.5 to 8A 60 to 1000W	- -	- -	0.5 to 8A 60 to 1000VA	- -
		220V a.c. 230V a.c.	0.25 to 8A 60 to 2000W	0.25 to 8A 60 to 2000W	- -	- -	0.25 to 8A 60 to 2000VA	- -
F415	50 Hz	220V a.c. 230V a.c.	- -	- -	- -	0.25 to 1.7A 60 to 400VA	- -	- -
F415/127	50/60 Hz	110V a.c. 127V a.c.	- -	- -	- -	0.75 to 1.7A 100 to 400VA	- -	- -
F413	50/60 Hz	230V a.c.	- -	- -	2.5A 550W MAX 4 ballast type T8	- -	- -	- -
F470/1 	50 Hz	230V a.c.	6A 1400W	6A 1400W	0.65A 150W	0.65A 150W	2Acosφ0.5 500W	- -
F470/2 	50 Hz	230V a.c.	2A 500W	6A 1400W	0.3A 70W	0.3A 70W	2Acosφ0.5 500W	2A 500W

NOTES:

1) fluorescent lamps with corrected power factor, energy-saving lamps, discharge lamps.
2) Account must be taken of the transformer yield to calculate the effective power of the load connected to the actuator. For example, if a dimmer is connected to a 100VA ferromagnetic transformer with yield 0.8, the effective load power will be 125VA. The transformer must be loaded to its rated power and in any case never lower than 90% of this power. It is preferable to use a single transformer rather than several transformers in parallel. For example, it is better to use a single 250VA transformer with 5 50W spot lights connected rather than use 5 50VA transformers in parallel, each with a 50W spot light.