CONTENTS

MyHOME_Up – Lights and automation

Light and shutter automation system

The system allows to use physical commands, touchscreen devices, smartphones and voice commands to manage the following functions:

LIGHTING

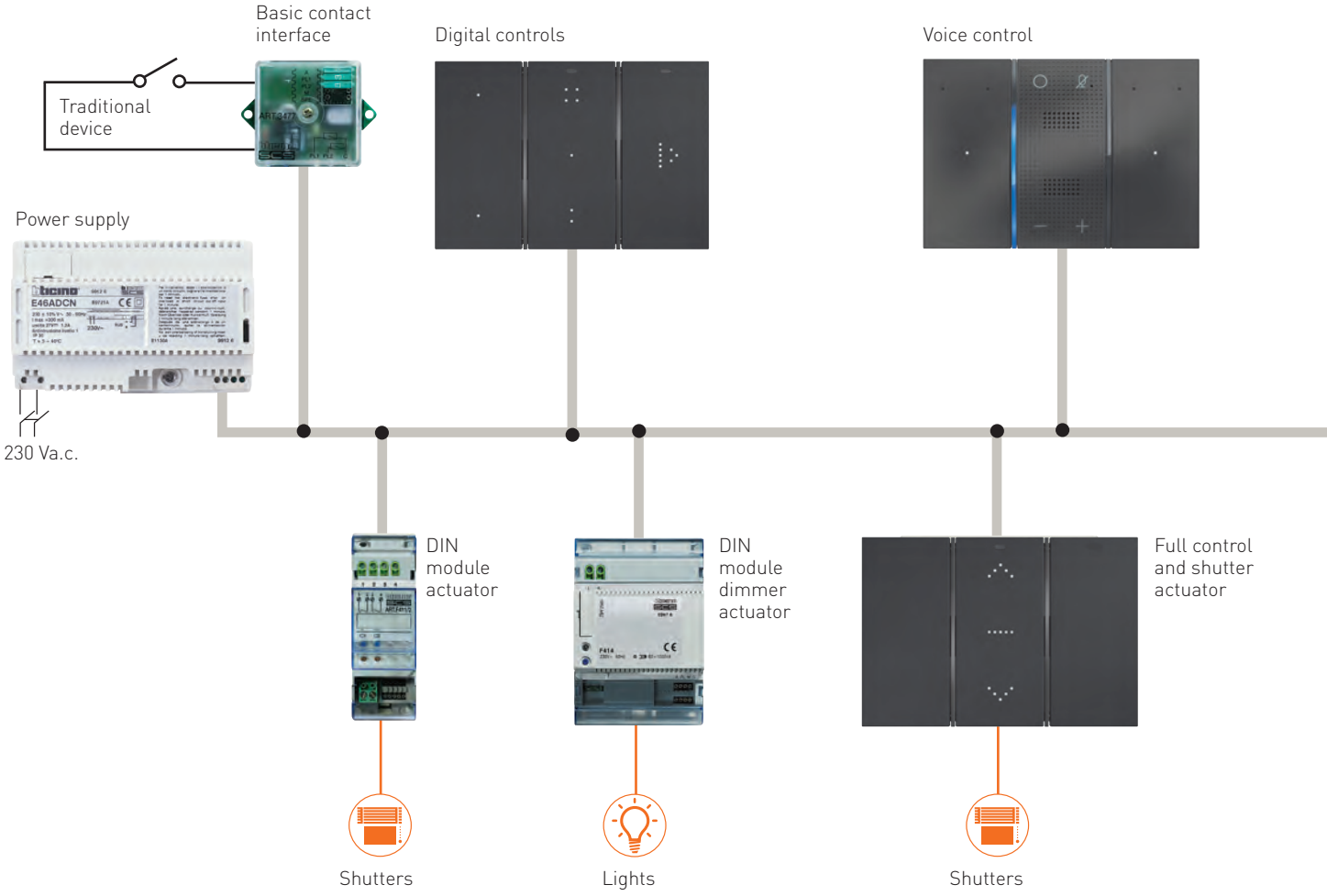
Management of traditional incandescence lamps, and LED, fluorescent and halogen lamps, with ON/OFF and DIMMER mode.

AUTOMATION OF SHUTTERS, CURTAINS AND OTHER DEVICES

Movement of shutters, curtains, doors and other motor-driven devices, with monostable and bistable UP/DOWN (or OPEN/CLOSE) mode and recall of a stored position (Preset function).

LIGHT AND AUTOMATION SCENARIOS

Execution of a range of simultaneous operations called “scenarios”. Using a physical device, voice commands, or automatically for calendar-based set events, etc., it is possible to activate at the same time some room lights and the opening of some shutters. If the system is integrated with the NUVO and temperature control systems, background music and desired temperature can also be set.

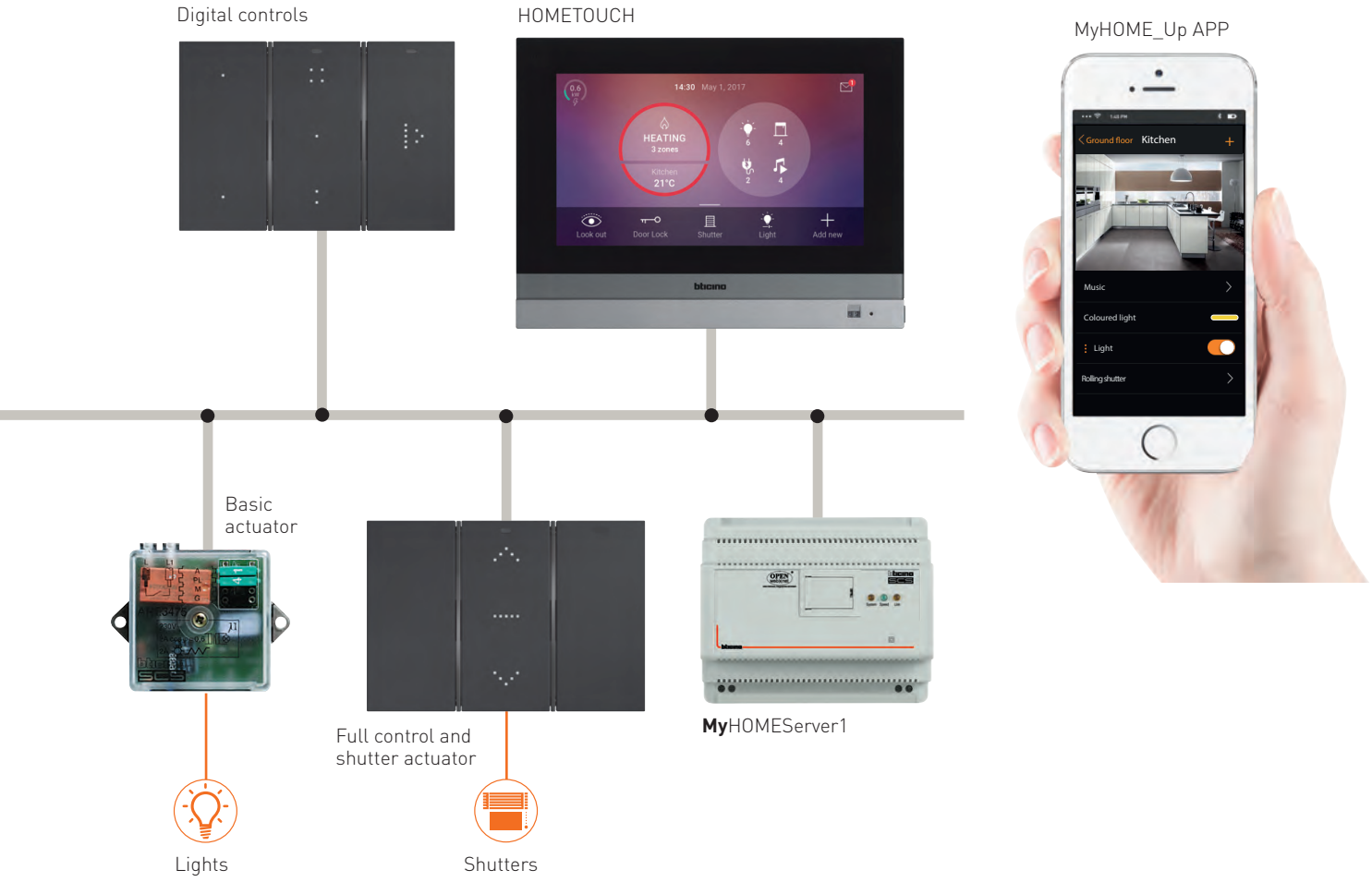


SYSTEM COMPOSITION

In the system there are two types of device:

- Controls, connected only to the BUS wire;
- Actuators, connected to the BUS cable and to the 230 Vac power line to manage the load.

Both devices are available in the advanced digital version, with Living Now finish, or in the version with silk-screen printed key covers, and with Living Now, Axolute, Livinglight and Matix finish.
The range of control devices is completed with other capacitive sensor and IR infrared products.

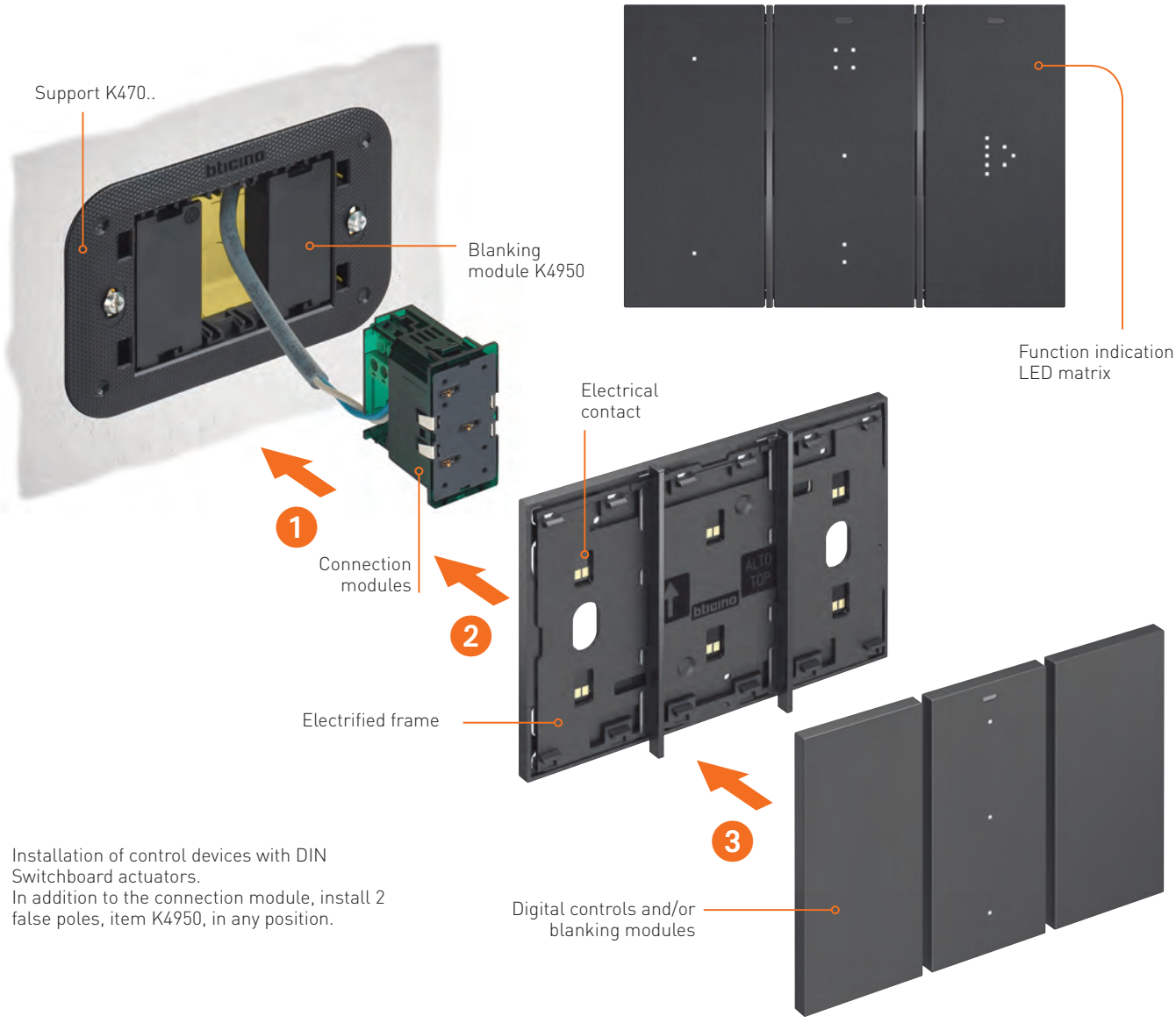


Light and shutter automation system

LIVING NOW DIGITAL CONTROL DEVICES

These devices are made using construction solutions that simplify assembly and allow the addition or modification of the home automation functions, which can be managed with maximum flexibility.
Compared with other civil series controls, the digital control is no longer a 2 module flush mounted element to use with the corresponding key cover, but rather a digital element of reduced size that can be installed without front cover plate.

The function to manage can be recognised thanks to a number of LEDs that make up the function symbol.
The installer decides which functions to associate to the commands using the **My**HOME_Up App. The same App can then be used by the user to customise symbols and functions to personal taste.



Installation of control devices with DIN Switchboard actuators.
In addition to the connection module, install 2 false poles, item K4950, in any position.

They are available in two versions:

- **FULL controls**: advanced devices that can be set using the MyHOME_UP App, with a LED matrix for the definition of a wide range of functions, such as ON/OFF and Dimmer lighting, shutter management, scenarios, NUVO player, coloured light, load management etc.
  IT is possible to simultaneously manage up to 3 different functions.

Shutter UP/DOWN | Dimmers | Group control | Night and day scenario | Coloured light

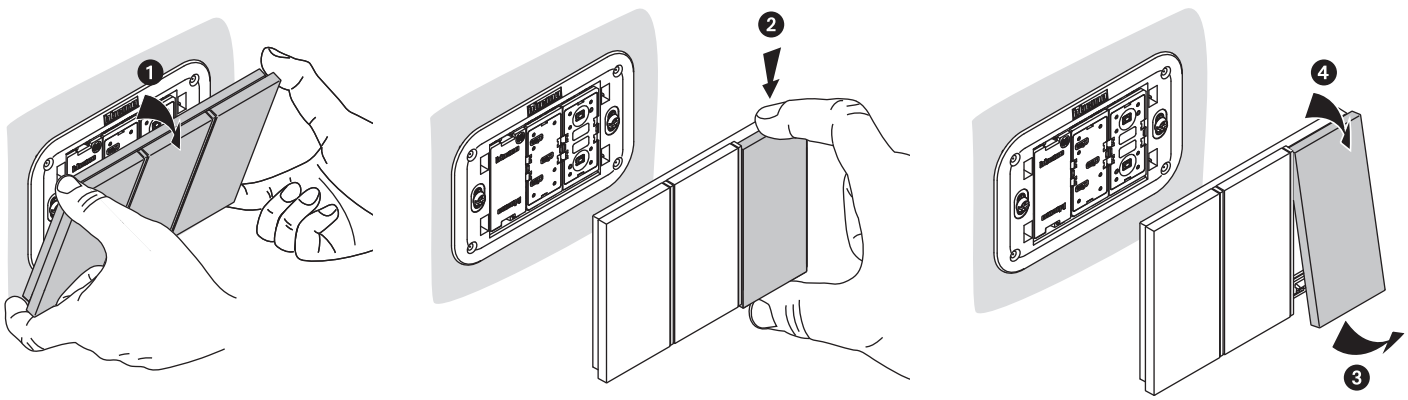
Overview of some icons of the functions managed by the advanced controls.

- **LIGHT controls**: with 3 LED indicators, top, centre and bottom, for the management of 1 or 2 lights.
  It is possible to also configure controls for the management of 1 or 2 groups of lamps, or for general commands.

Management of one light | Management of two lights

With reference to the illustration of the previous page, digital devices are installed in their respective flush mounted box and support, item K470..., using an appropriate "frame" with 27 Vd.c. control device power supply contacts.
The BUS cable is connected to the electrified frame using the connection module, item K8001.

This solutions simplifies wiring of two or more control devices as it is no longer necessary to have a "parallel" connection of the BUS cable. At the same time, it also facilitates the replacement and repositioning of the control device, also by the user, without the need for wiring.



Removal of the control devices from the electrified frame for installation in a different position.

Light and shutter automation system

COMPOSITION OF DIGITAL CONTROLS

For each type of box, the electrified frames used and the number of devices and the accessories that can be installed are indicated.

	2 modules	3 modules	4 modules
Flush mounted boxes	 **502E** (70x70x50 mm)	 **503E** (108x74x53.5 mm)	 **504E** (133x74x53.5 mm)
Plasterboard boxes	 **PB502N** (ø 71x50.5 mm)	 **PB503N** (110x71x52 mm)	 **PB504N** (132.5x71x52 mm)
Supports	 **K8102**	 **K4703** with screws	 **K4704** with screws
Flush mounted devices - connection module K8001; - actuators K8002L and K8002S; - additional power supply K8003 (2 modules).	 3 modules		 4 modules
Blanking module K4950	 max. 2 blanking modules		 max. 3 blanking modules
Electrified frame	 3 modules **..8102P1**	 3 modules **..8103**	 3+1 modules **..8103P1**
			 4 modules **..8104**
			 4+1 modules **..8104P1**
Voice control item ..8013 (3 modules) Digital control Light item ..8010 and Full item ..8011 Cover for blanking module item 4950			
			
			

WARNING FOR THE SELECTION OF THE DEVICES:

1. Note (*) The connection module is necessary; its position is free inside the box.

2. If the installation of the additional power supply, item K8003, is required for the voice command, item ....8013 (see the MyHOME_Up guide for the details), connection module item K8001 must not be installed. The additional power supply (space required 2 modules) can only be installed in the electrified frame or together with 1 or 2 actuators, depending on the size of the box.

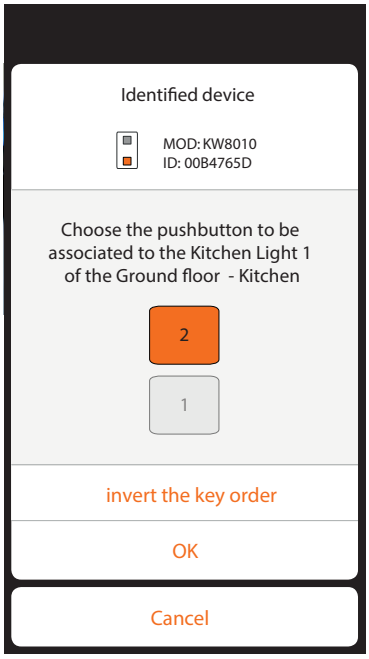
ALLOCATION OF THE FUNCTIONS TO MANAGE AND CONFIGURATION OF ICONS

Like all the **My**HOME_UP devices, also with digital control devices the definition of the functions to manage and the association with the respective actuator require the MyHome_Up application and the **My**HOMEServer1 web server.
Using the same App, it will be possible to select the symbol of the function managed.

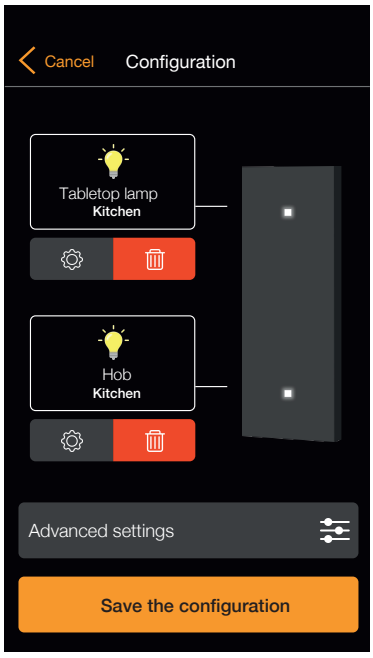
Shutter UP/DOWN

Dimmers

Coloured light



Activation of the MyHOME_Up system - definition of the LIGHT command for the control of two lights.



Customisation of the functions by the user - definition of the FULL command for the control of 2 separate light points.

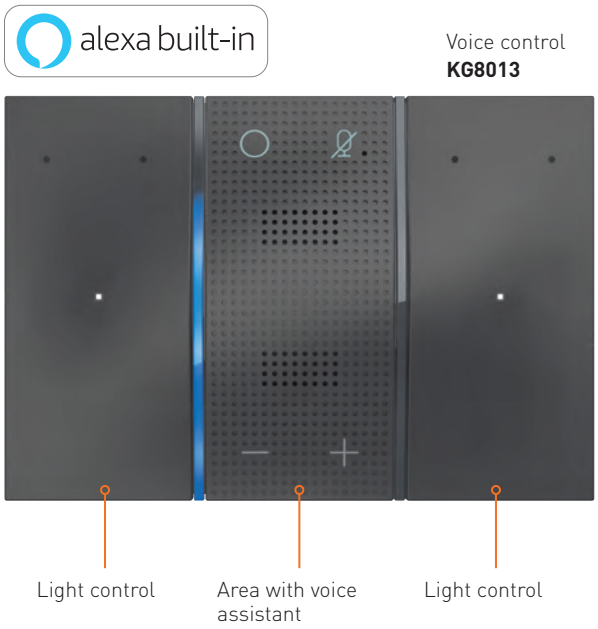
Light and shutter automation system

LIVING NOW DIGITAL CONTROL DEVICES WITH AMAZON ALEXA VOICE ASSISTANT

The "Voice command" device, item KG/KS/KM8013, brings together the functions of two digital controls for the management of lights with cyclical ON/OFF mode, with an integrated voice assistant exploiting the Amazon Alexa technology.

The advantage resulting from the use of this device is clear: the installer can offer to their customer an added value service, setting "by default" each room of the home for "voice" control of the home automation functions of MyHOME, and to request any information, news, weather conditions, timetables, and so on, using the Amazon Alexa platform.

The integration of the voice activated controls with the **My**HOME_Up system is ensured using the MyHOMEServer1 device.

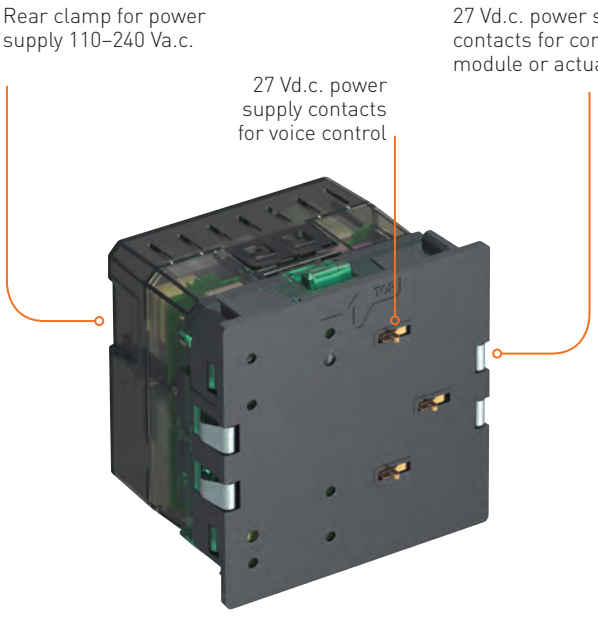


Voice control power supply

The BUS 27 Vd.c. power supply is supplied to the voice command device by the connection module, item K8001, through the electrified frame, item 8103/P1, or item 8104/P.

In addition to the above module, it is also possible to use the extra flush mounted 2 module power supply, item K8003.

For further details, see the technical sheets of the power supply and voice control.

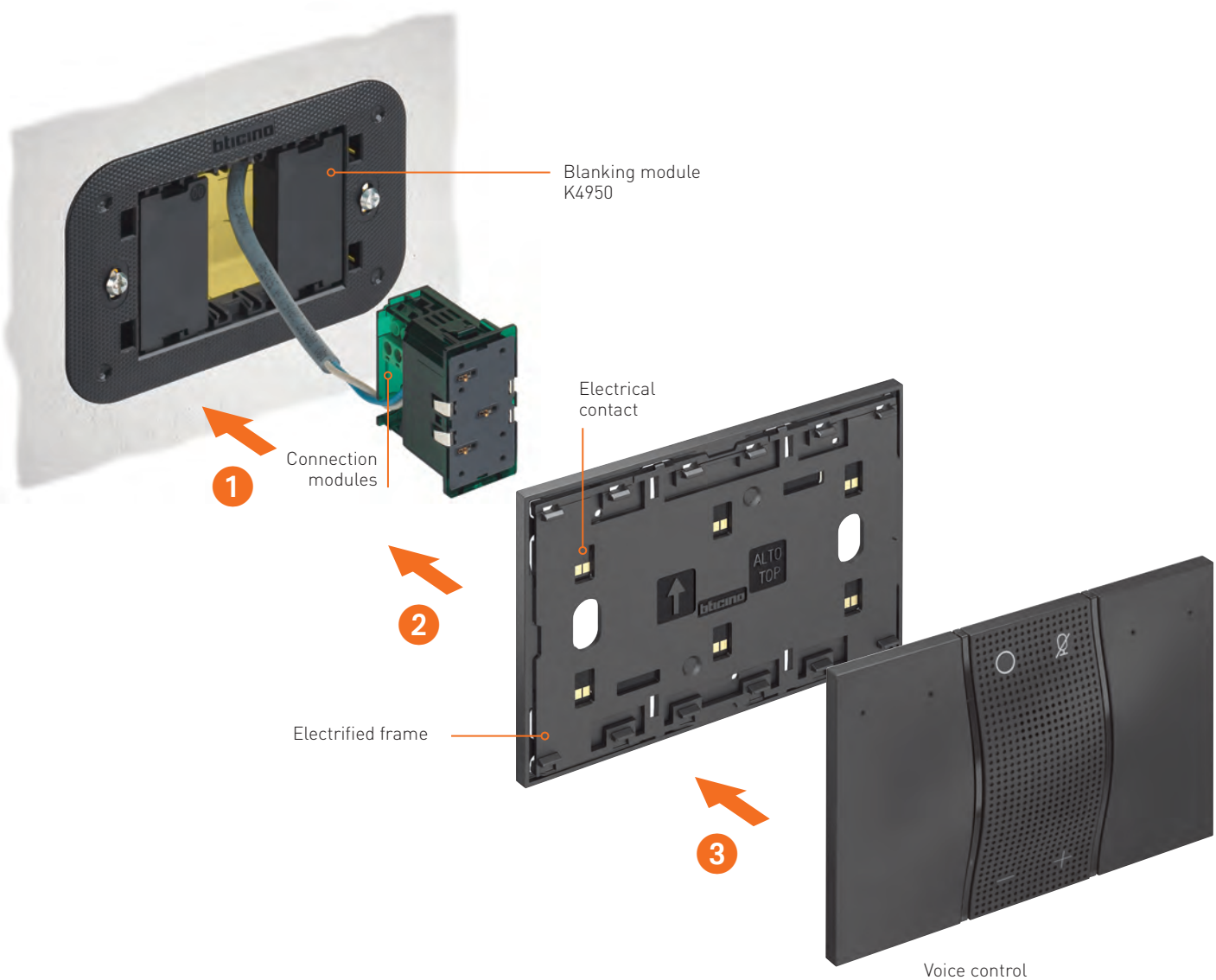


Power supply item **K8003**

Installation features

The voice command is installed in the respective flush mounted box and support, item K470... using an appropriate "frame" with 27 Vd.c. power supply contacts.

Therefore, use connection module item K8001 to connect the BUS cable to the electrified frame.



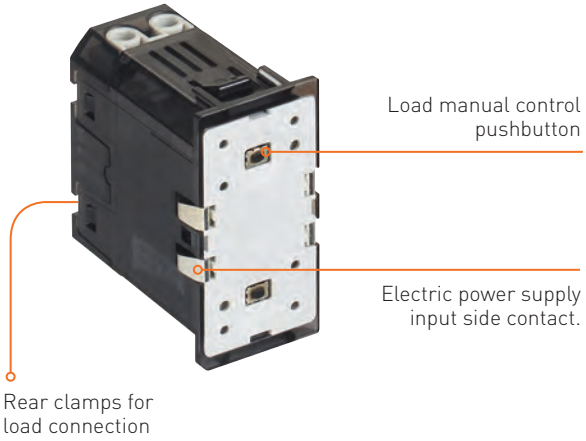
Light and shutter automation system

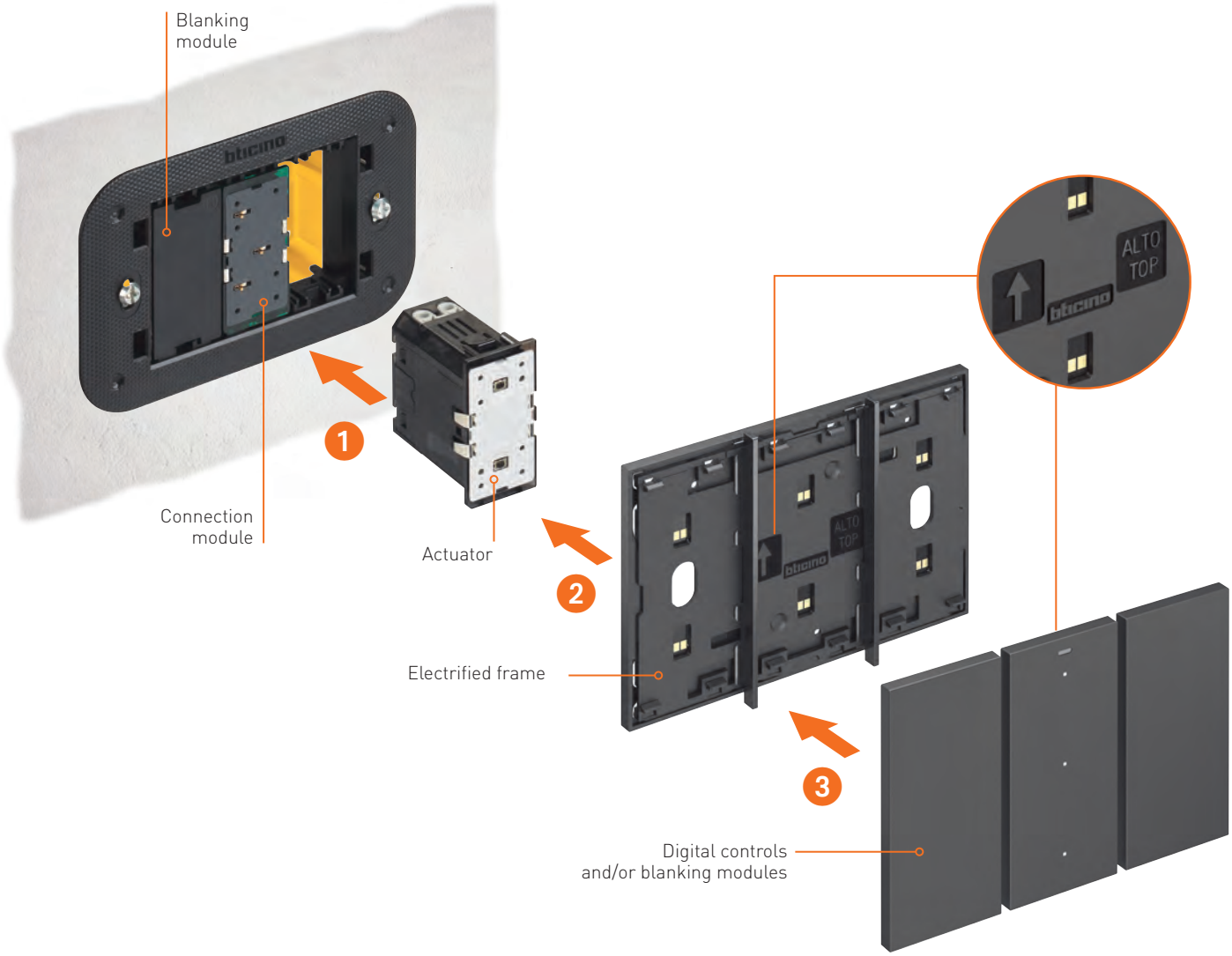
LIVING NOW 1-MODULE DIGITAL ACTUATORS

These devices can be used with digital controls and are available in two versions:

- for the ON/OFF control of two lamps;
- for the control of a shutter electrical motor.

Both devices are flush mounted using the K470... support and are equipped with side contacts for the 27 Vd.c. electric power supply input directly from the connection module, or through a second actuator.
The association with the corresponding digital control requires the **My**HOME_Up application.



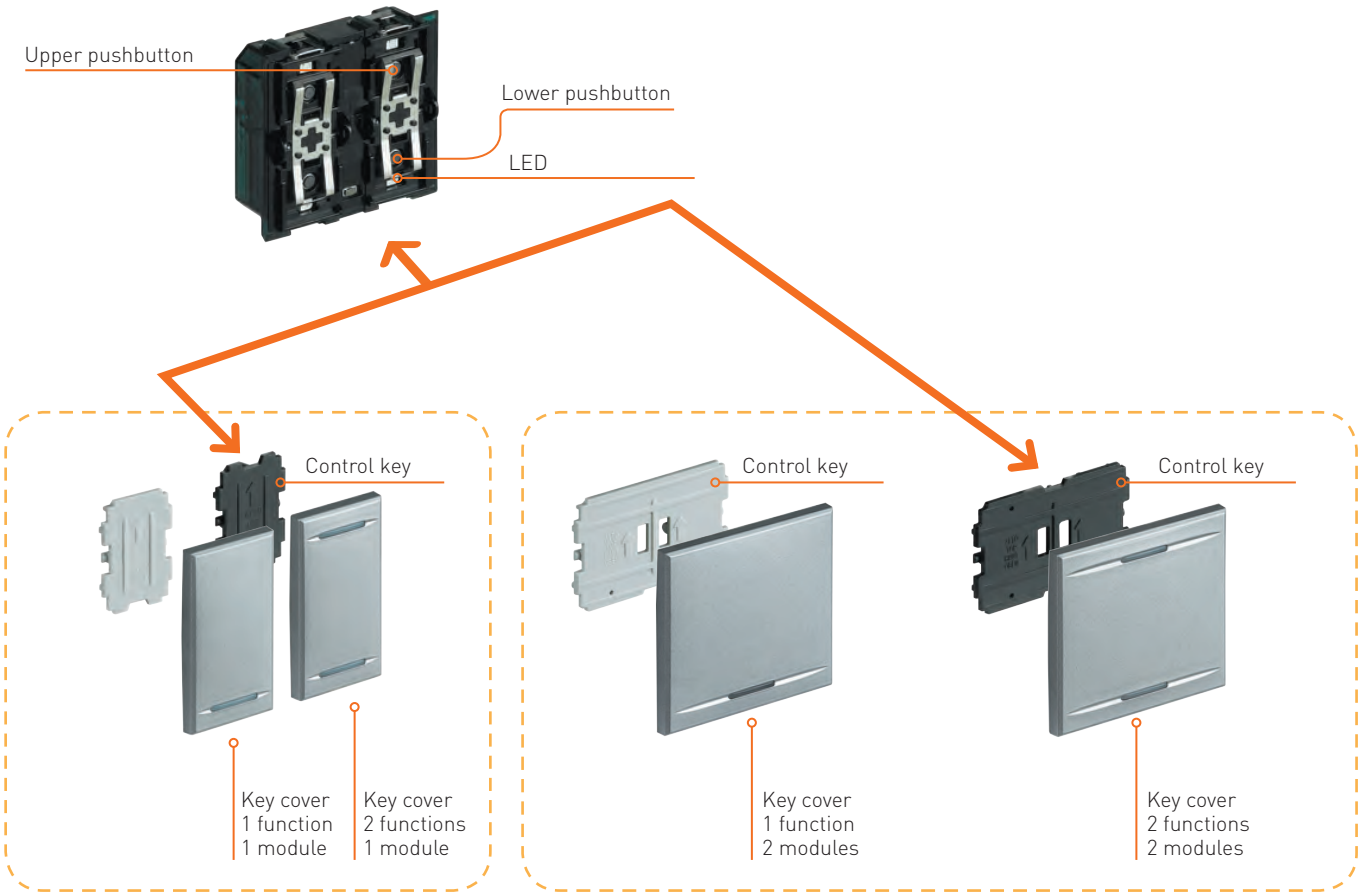


CONTROL DEVICES WITH KEY COVERS

They are completed with two types of keys and key covers:

- With 1 function, one or two modules, to be used with the grey control key;
- With 2 functions, one or two modules, to be used with the black control.

All the devices have luminous indications, which can be adjusted or excluded, for the notification of the status of the load, and so that they can be seen in the dark.



The control with single key cover can be compared with a traditional closing contact (pushbutton or switch).

The control with double key cover (rocker) can, on the other hand, can be compared with a traditional exchange contact.

NOTE: the control keys are supplied with the device.

Light and shutter automation system

OTHER CONTROL DEVICES

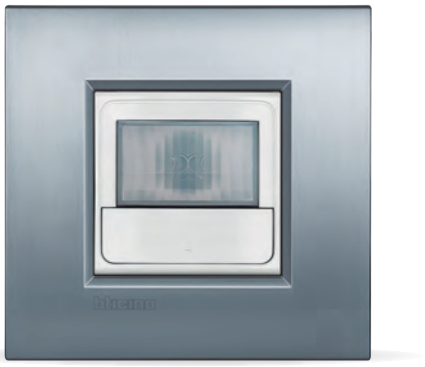
8-key multifunction control item H/LN4652

With 8 backlit keys, this device manages lighting, the automation of shutters and, in integrated systems, also the audio NUVO player system and the scenarios.

Control item **H4652**

Presence and lighting sensors item ....4658 and item 4659

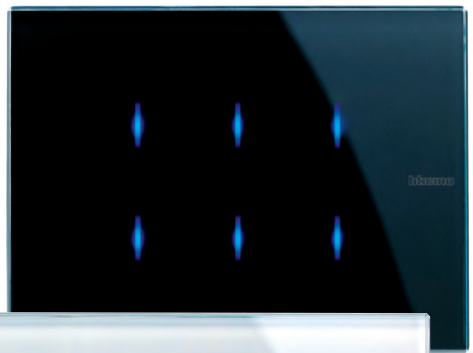
Devices with passive infrared ray presence sensors, ultrasound and light sensors, for the management of lighting based on the presence of people and the amount of natural light, in compliance with the requirements of the highest energy efficiency class for buildings, as contemplated by European Standard EN 15232.



Passive IR movement sensor (PIR)
item **AM4659**

Glass controls with capacitive sensors

The mechanical keys are replaced by capacitive sensors which are touch activated. They can be identified by LED with light of adjustable intensity. The functions that can be managed are the same as for the 8-key multifunction control.



Nighter 3-module control
item **HS4657M3**

Whice 4-module control
item **HD4657M4**

CONTACT INTERFACES

These devices integrate the traditional control equipment (switch, pushbutton, etc.) in the MyHOME_ Up BUS system and allow their use in rooms where traditional systems are already present or in historic and prestigious rooms whereby the complete or partial remaking of the electric system would entail heavy masonry work.

Contact interface
in DIN module
item **F428**

Contact interface
in basic module
item **3477**

Light and shutter automation system

SELECTION OF THE CONTROL DEVICE BASED ON THE FUNCTION TO MANAGE

		Basic control	Special control	LIGHT digital control	FULL digital control	
						
PERFORMED FUNCTIONS		H4652/2 L4652/2 AM5832/2 H4652/3 L4652/3 AM5832/3 K4652M2	H4651M2 L4651M2 AM5831M2	KW/KG/KM8010	KW/KG/KM8011	
LIGHTING	Cyclical ON/OFF	●	●	●	●	
	ON/OFF control with light intensity control	●	●	●	●	
	General, room, group controls	●	●	●	●	
	Timed controls	●	●		●	
AUTOMATION	Normal UP/DOWN and safe UP/DOWN mode shutter control General, room, group controls	●	●		●	
SCENARIO MANAGEMENT		●	●		●	

	8-Key control	Brightness and movement/ presence sensor	Nighter e Whice capacitive control	Contact interface
	 H/LN4652	 HC/HD/HS4658 HC/HD/HS4659 L/N/NT4658 L/N/NT4659 BMSE3001 BMSE3003 048834 K4659	 HD4657M3/4 HC4657M3/4 HS4657M3/4	 F428  3477
				●
	●	●	●	●
		●		●
				●
				●
	●	●	●	●

Light and shutter automation system

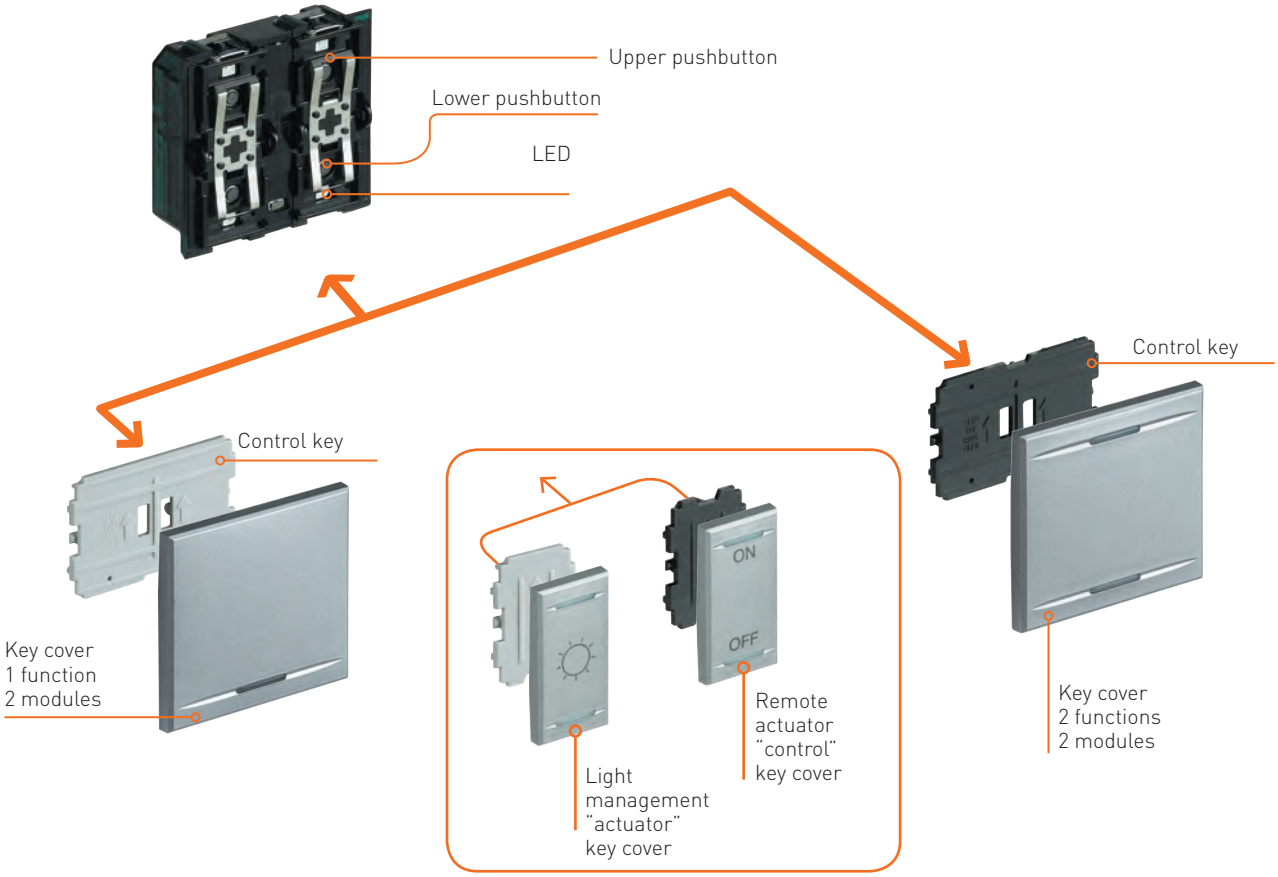
FLUSH MOUNTED ACTUATORS

The range of **My**HOME_Up includes devices for ON/OFF or dimmer control of lighting bodies with powers up to 2300 W, of the type:

- LED;
- fluorescent;
- halogen;
- incandescent;
- supplied with ferromagnetic or electronic transformers;
- ballast 1-10V;
- DALI.

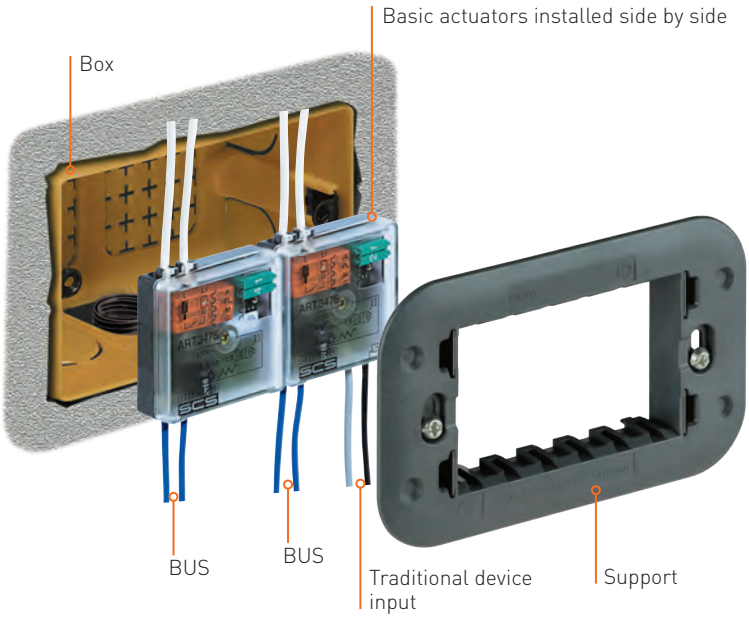
Below are some actuators; for the complete range and the technical features see the "Catalogue" section.

Devices to be finished with key covers - flush mounted installation



Actuator, item LN4672M2 Livinglight with 1 x 10 A relay for 4 A incandescence lamps, for fluorescent lamps or ferromagnetic transformers, and 500 W for LED and compact fluorescent lamps, for automation and/or load control management functions.

Basic modularity devices - flush mounted installation



Actuator, item 3476 with 1 relay for single loads: 2 A resistive or incandescence lamps, 2 A inductive for ferromagnetic transformers. Preset for connection with NO type control pushbutton.

DIN modular devices

Dimmer actuator, item F418U2 two-channel dimmer for the management of dimmer LEDs, dimmer compact fluorescent lamps (CFL), energy saving halogen lamps and electronic transformers at 110-230V.

IT is possible to connect two channels with parallel connection, to increase the maximum power that can be managed.

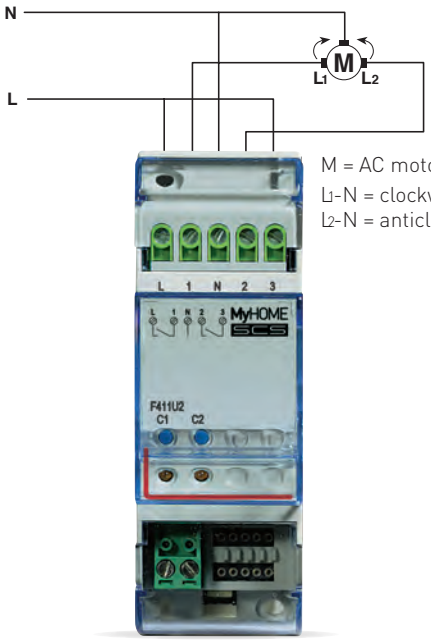
ON/OFF actuator, item BMSW1003 with "Zero Crossing" technology, 4 independent outputs for 16 A maximum loads at 230 V a.c. The device is powered directly from the 100/240 Va.c. mains 50/60 Hz.

Light and shutter automation system

ACTUATORS FOR SHUTTERS AND CURTAINS

Different actuators are available for the motor-driven control of shutters and/or curtains with powers up to 460 W:

Actuator, item **LN4672M2** to be completed with key covers, for the control of one shutter or 2 lights.



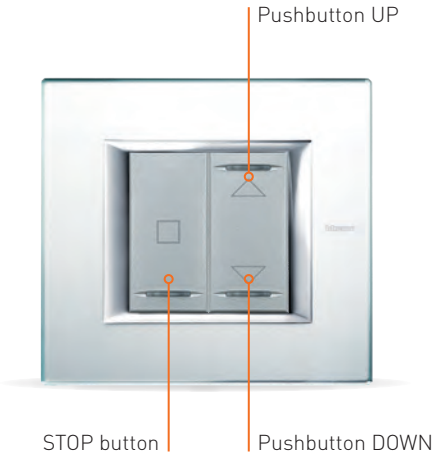
M = AC motor with 2 windings
L1-N = clockwise rotation
L2-N = anticlockwise rotation

Actuator, item **F411U2** with 2 relays for ON/OFF lighting control. In the diagram, the device is wired for the control of a motor-driven shutter, and must be set in "relay interlock" mode.

Actuators with preset and position calibration function

Devices with 2 interlocked relays for the control of standard motors with automatic calibration, standard with manual calibration, and pulse motors. Available in all the flush mounted civil versions and 2 DIN module versions, to be used with the specific control device.

Preset function:
In addition to the UP/DOWN monostable and bistable functions, these devices allow to move the shutter to a specific position (Preset).



Flush mounted actuator, item **H4661M2** and DIN rail actuator, item **F401**, for shutter control with storage of the desired position.

SIZING OF THE SYSTEM

When sizing the system, check the absorption of the devices to ensure correct system operation. With absorption levels below 600 mA, it will be possible to use compact power supply E49. With absorption levels between 600 and 1200 mA, power supply E46ADCN must be used.
For the current absorption of the device see its technical data sheet.

The length of the cable must also be considered, complying with the following rules:

- The length of the connection between the power supply and the furthest device must not exceed 250 m.
- The total length of the connections must not exceed 500 m (laid out cable).
- For optimum division of the currents on the bus line, it is recommended that the power supply is installed in an intermediate position.

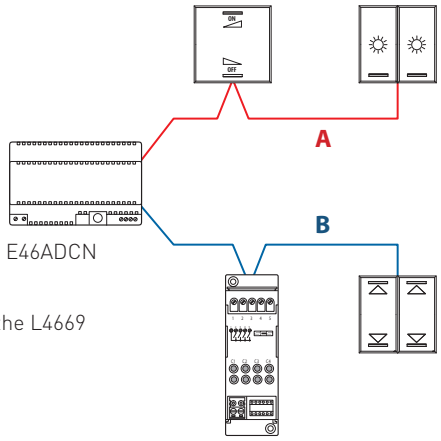
With power supply E46ADCN:

A = 250 m max

B = 250 m max

A + **B** = 500 m

NOTE: If a UTP5 cable is used in alternative to the L4669 BUS cable, distances are halved.



NOTE: For the sizing of the lighting system with light and movement/presence sensors, refer to the technical data sheets of the products available at the bticino.com website and the homesystems-legrandgroup.com website.

Light and shutter automation system

DIAGRAM 1

SWITCHING ON AND OFF OF 2 LAMPS WITH 4 LIGHT POINTS WITH GENERAL ON/OFF CONTROL

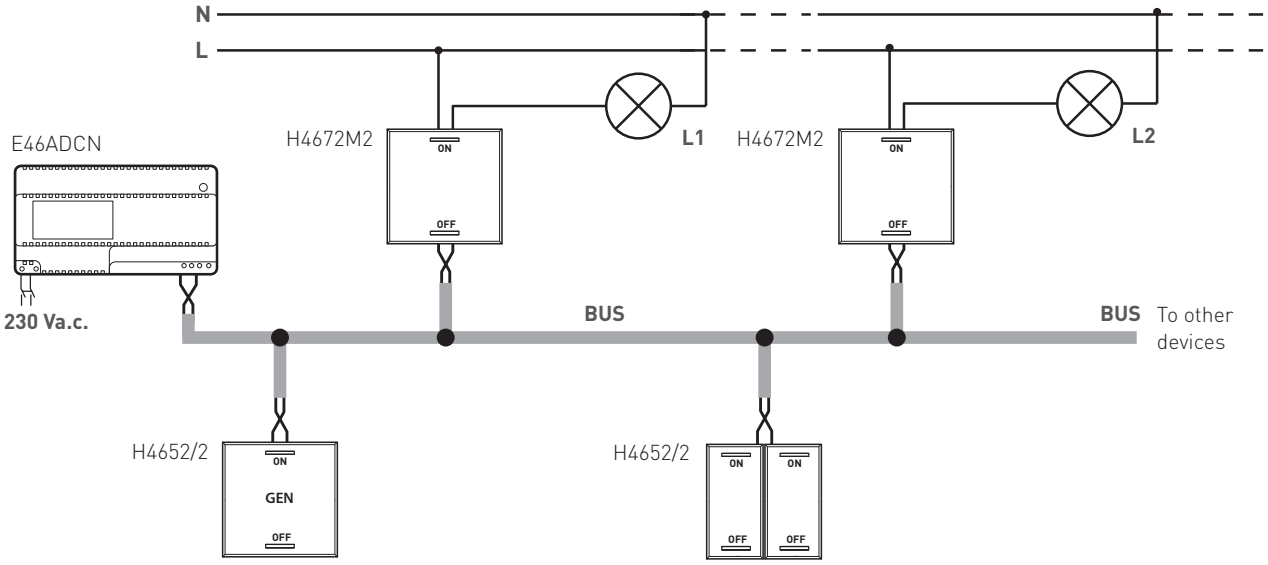
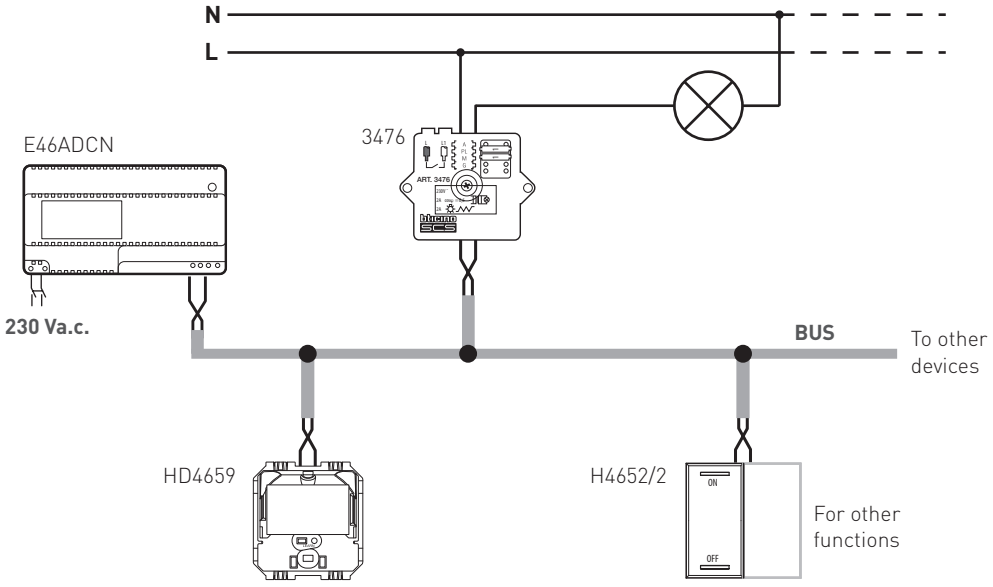


DIAGRAM 2

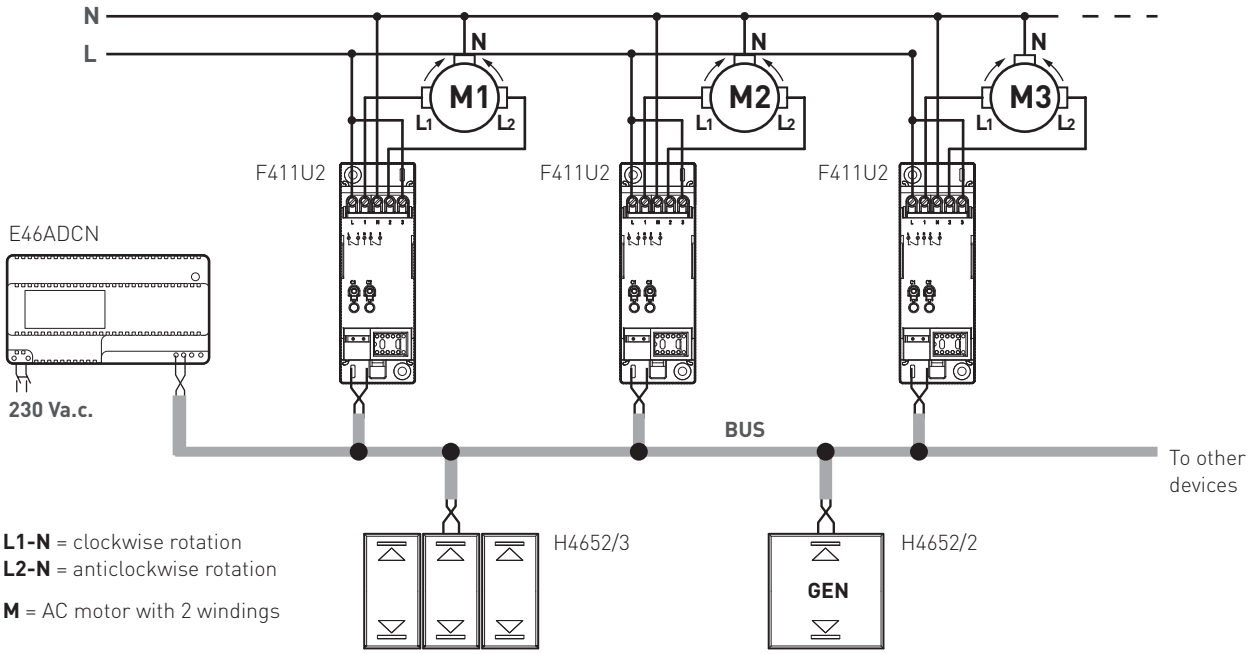
AUTOMATIC SWITCHING ON OF THE LIGHT WITH PASSIVE INFRARED CEILING SENSOR



The device controls the load with the address indicated in A and PL. When a presence is detected, if the light level is below the set level the device switches on the assigned load and keeps it on for a period of time set using the configurator in T. The sensitivity of the PIR movement sensor is set using the configurator in S. For correct operation, it will be necessary to set the sensor lighting setpoint (see procedure).

DIAGRAM 3

ALTERNATE CURRENT MOTOR CONTROL FOR SHUTTERS, CURTAINS, OR MOTORISED SHUTTERS

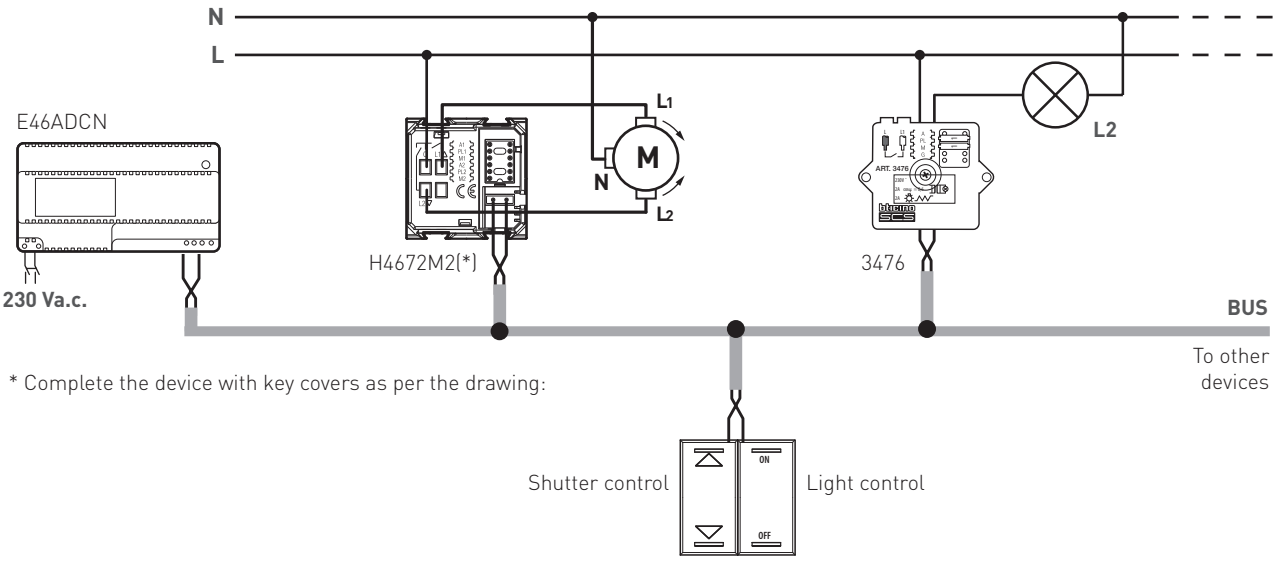


L1-N = clockwise rotation
L2-N = anticlockwise rotation

M = AC motor with 2 windings

DIAGRAM 4

SWITCHING ON AND OFF OF ONE LAMP AND SHUTTER CONTROL USING AN ACTUATOR CONTROL



* Complete the device with key covers as per the drawing:

Light and shutter automation system

DIAGRAM 5

SWITCHING ON, OFF AND ADJUSTMENT OF THE LIGHT LEVEL OF FLUORESCENT LAMPS THROUGH “BALLAST”

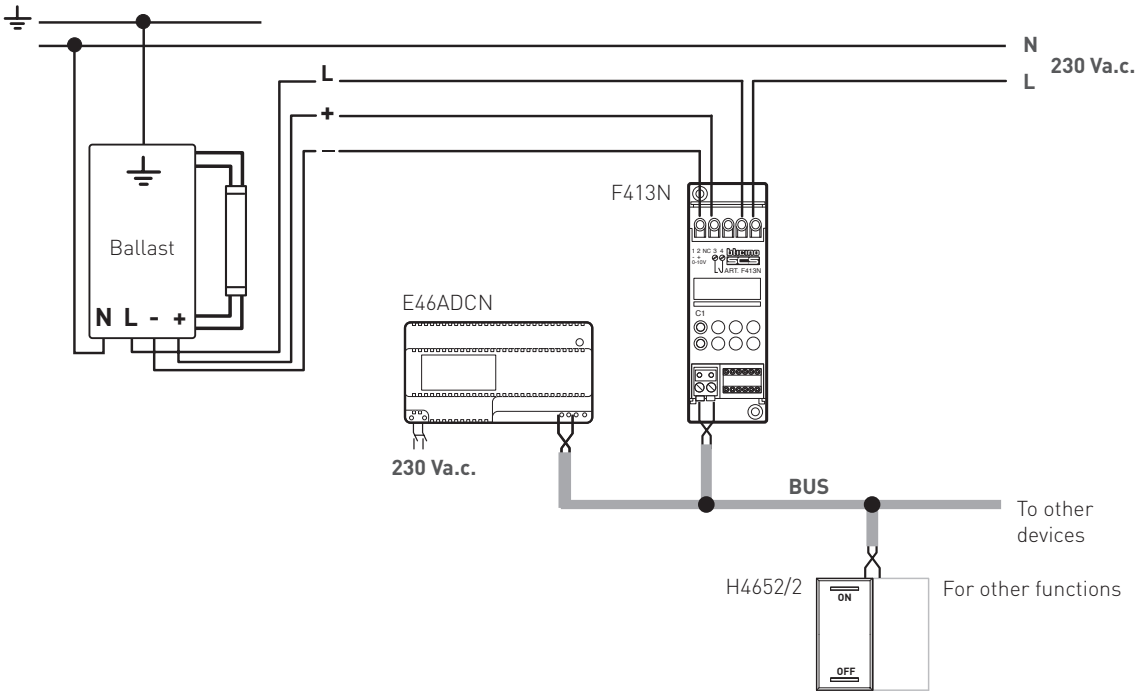


DIAGRAM 6

SWITCHING ON, OFF AND ADJUSTMENT OF THE LIGHT LEVEL OF LED LAMPS

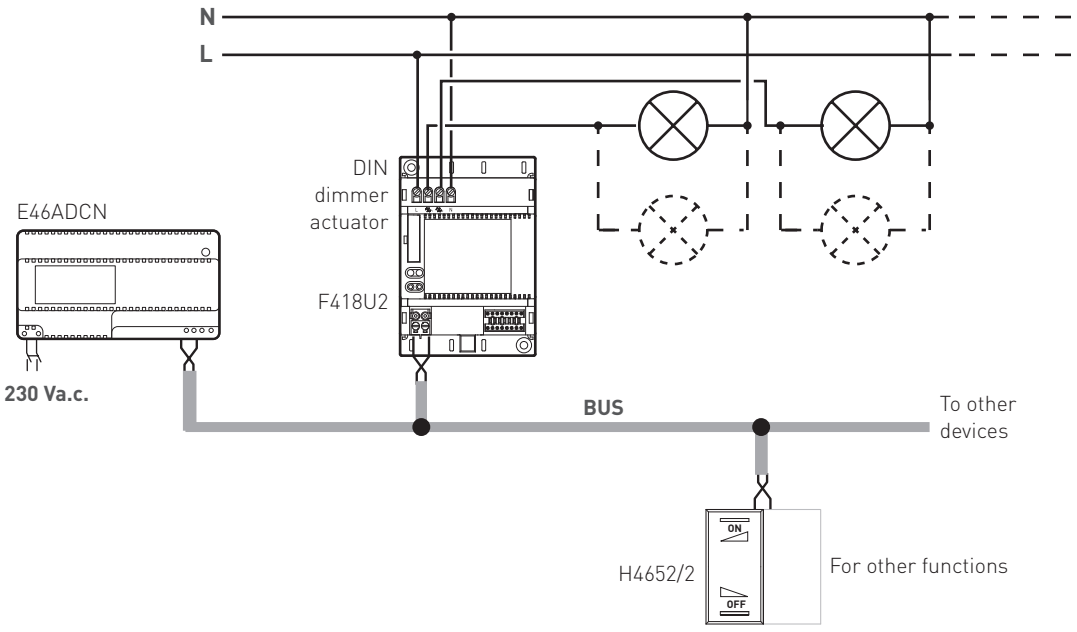


DIAGRAM 7

LIGHTING SYSTEM WITH PRESENCE AND LIGHTING SENSORS - LARGE MEETING ROOM

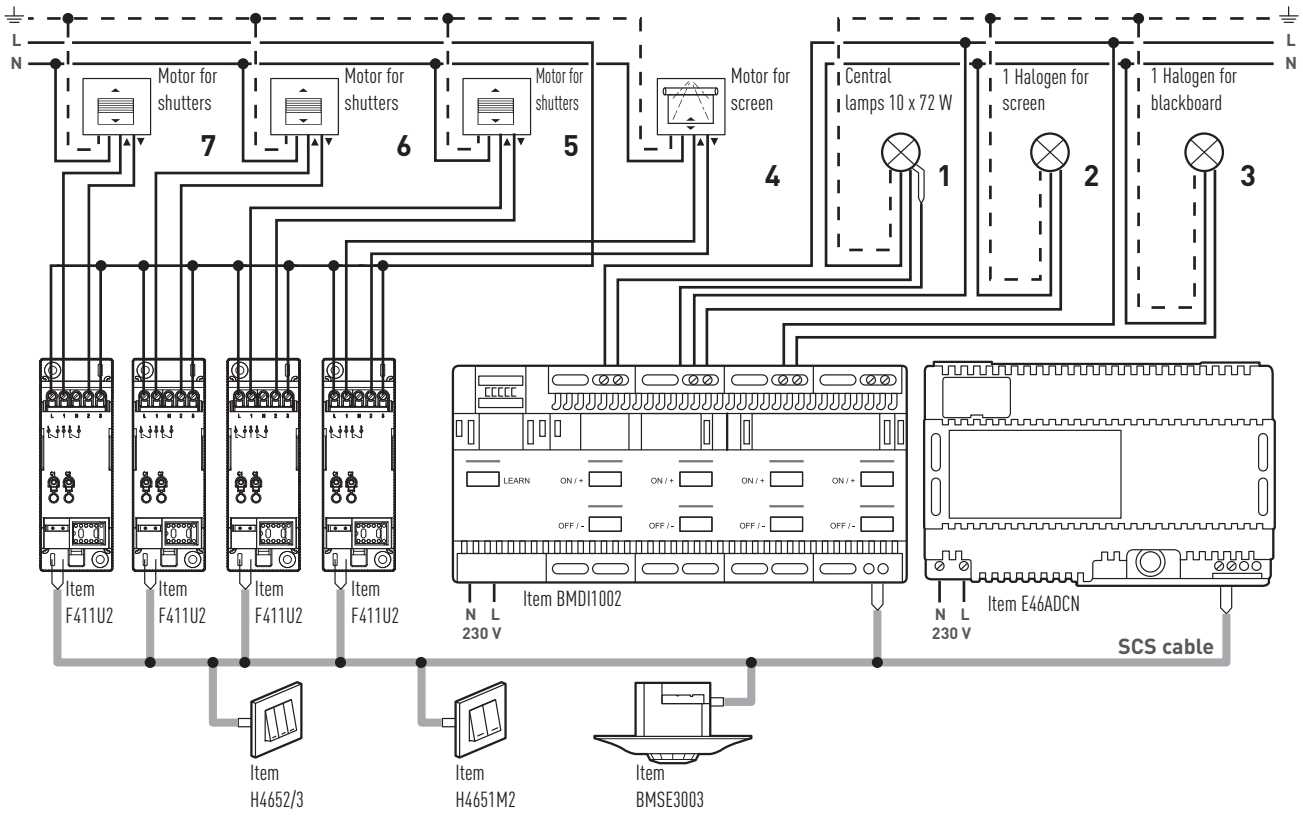
The SCS 1-10 V dimmer, item BMDI1002, manages all the room lighting circuits: switching on/off the lamps of the screen (circuit 2) and the blackboard (circuit 3), and adjusting the general lighting of the room (circuit 1).

The SCS double technology sensor, item BMSE3003, configured in ECO mode, is installed at the centre of the room for optimum detection, and automatically disables the general lighting of the room (circuit 1) based on the detection of presence and the level of natural light.

It is also possible to manually adjust the light using one of the 3 module SCS control buttons, item H4652/3, installed at the entrance.

The lights of the screen (circuit 2), the blackboard (circuit 3) and the general lights (circuit 1), are managed using the 3 module SCS control, item H4652/3.

The shutters (circuit 5, 6 and 7) and the screen up and down control (circuit 2) are controlled by three SCS actuators, item F411/2, and adjusted using the special SCS control, item H4651M2.



Warning:

1. To ensure optimum detection, install the double technology ceiling SCS sensor, item BMSE3003, at the centre of the room; install the three module SCS control, item H4652/3; install the special SCS control, item H4651M2, between the screen and the shutters.
2. Install the 2-channel SCS actuators item F411U2 + the 1-10 V 4 channel dimmer, item BMDI1002 + the SCS power supply unit, item E46ADCN, in a cabinet.
3. Connect together all the devices using the SCS cable, item L4669, L4669/500, L4669HF.
4. Configure sensors, controls and controller using the MyHOME_Suite software.
5. The sensor has the following factory settings: delay time 15 minutes, brightness threshold 500 lux, maximum PIR sensitivity and high US. Whenever necessary use the configuration remote control item BMS04001 to change the sensor parameters.

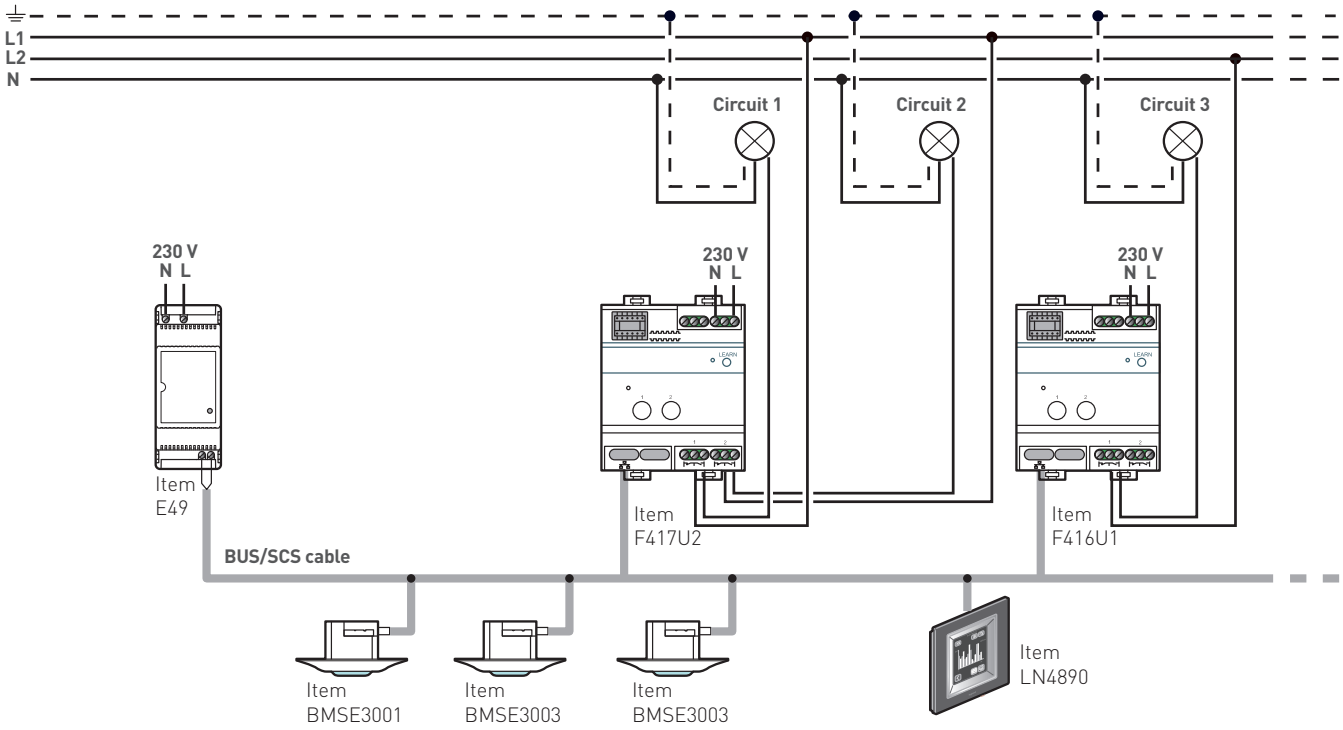
Light and shutter automation system

DIAGRAM 8

LIGHTING SYSTEM WITH PRESENCE AND LIGHTING SENSORS - HALL AND RECEPTION

Each passive infrared ceiling sensor, item BMSE3001, or double technology sensor, item BMSE3003, controls the corresponding zone (circuit 1, 2 and 3).
During the day, the illumination is automatically adjusted based on presence or movement, and the amount of natural light: sensors are configured to keep a 500 lux level in the reception and a 100 lux level on the staircases.

The light can also be switched on using the touch screen, item H/LN4890.



1. Install the double technology or passive infrared SCS ceiling sensors, items BMSE3003 and BMSE300, at the centre of each of the areas to control.
2. Install the SCS power supply unit, item E46ADCN, and the SCS dimmers, items F417U2 and F416U1, in the hall patch cabinet.
3. Install the SCS touch screen, item LN4890, on the wall.
4. Connect all the devices together using the SCS cable, item L4669, L4669/500, L4669HF.
5. Configure all the installed devices using the MyHOME_Suite software.
6. The sensors have the following factory settings: delay time 15 minutes, brightness threshold 500 lux, maximum PIR sensitivity and high US.

   Whenever necessary use the configuration remote control item BMSO4001 to change the sensor parameters.

WEBSITE: https://legrand.vn/

EMAIL: info@legrand.vn