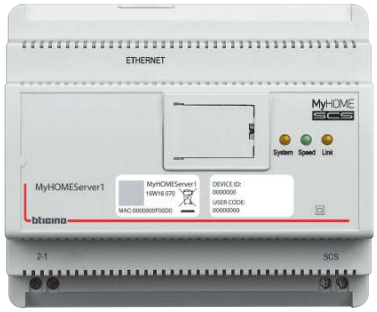
A Group Brand | legrand

MyHOME

BECOME EVEN SMARTER



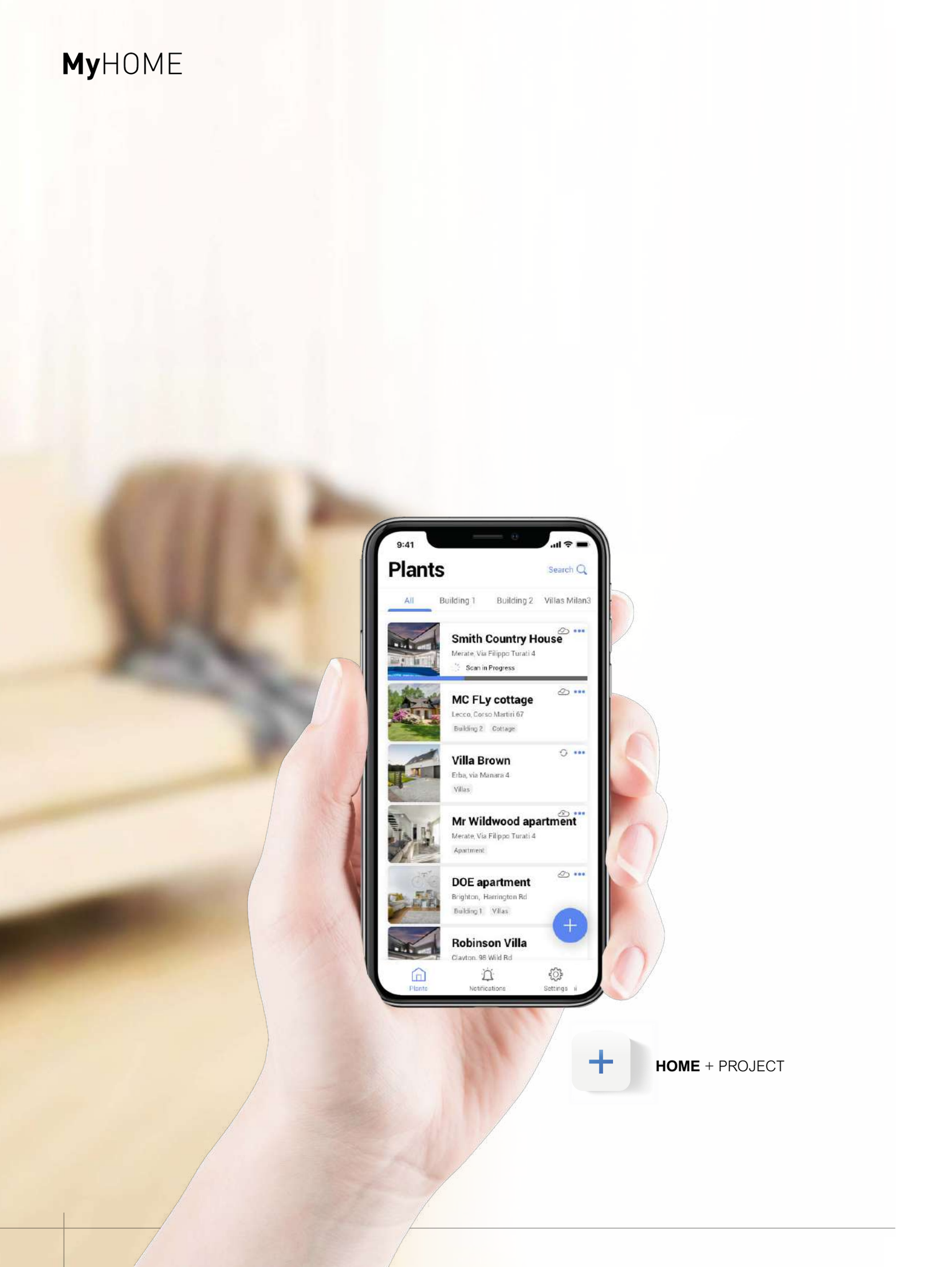
HOME + PROJECT

VOICE CONTROL | CONTROL WITH SMARTPHONE | MANUAL CONTROL | TOUCH CONTROL

GUIDE
FOR INSTALLATION AND CATALOGUE

bticino

MyHOME



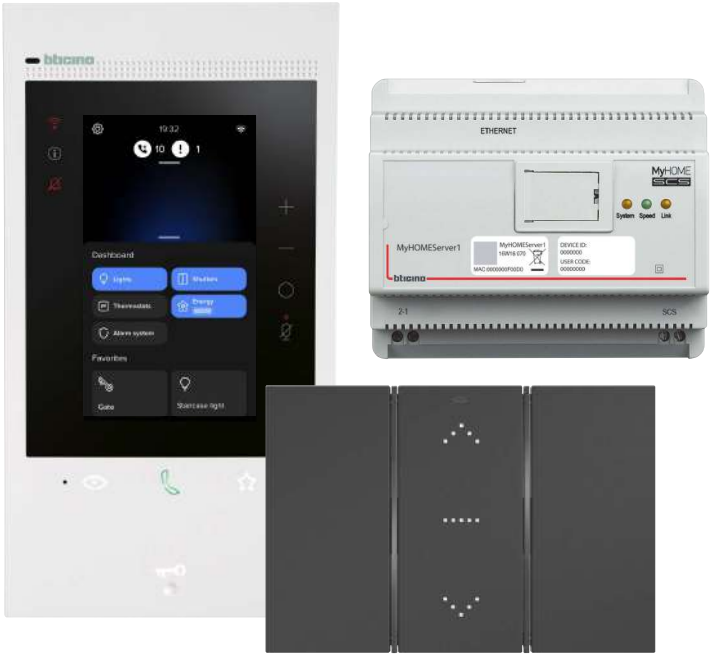
HOME + PROJECT

MyHOME: even Smarter with the new solutions for the system configuration and management

The **MyHOME** system evolves with new solutions for the design, configuration and management of functions. Your electrical system has never been so advanced, connected and easy to use.

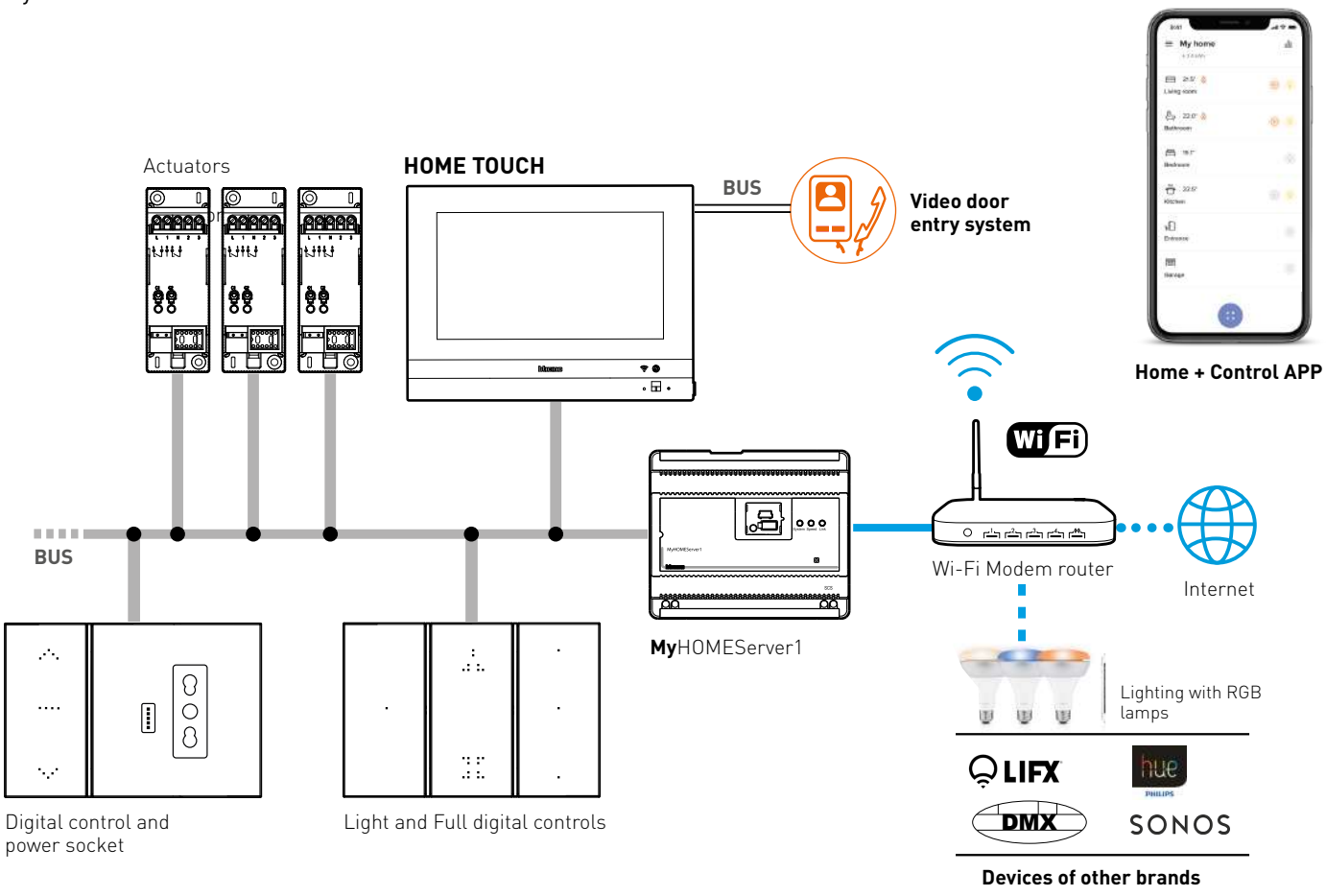
WHAT IS MyHOME

MyHOME is a customisable and flexible BUS system that uses smart electronic devices suitable for any residential and service sector context, to realise different home automation levels to meet the needs of security, comfort, energy saving, communication and local and remote control.



MyHOME uses 2 wires BUS installation technology: all the devices are connected "in parallel" by means of a two-conductor wire (pair), used to transport the information and low-voltage electrical power supply (27V d.c.).

MyHOME gives you the possibility to create a 2 wire BUS system choosing your preferred server: MyHomeServer1 or Classe 300EOS with Netatmo.

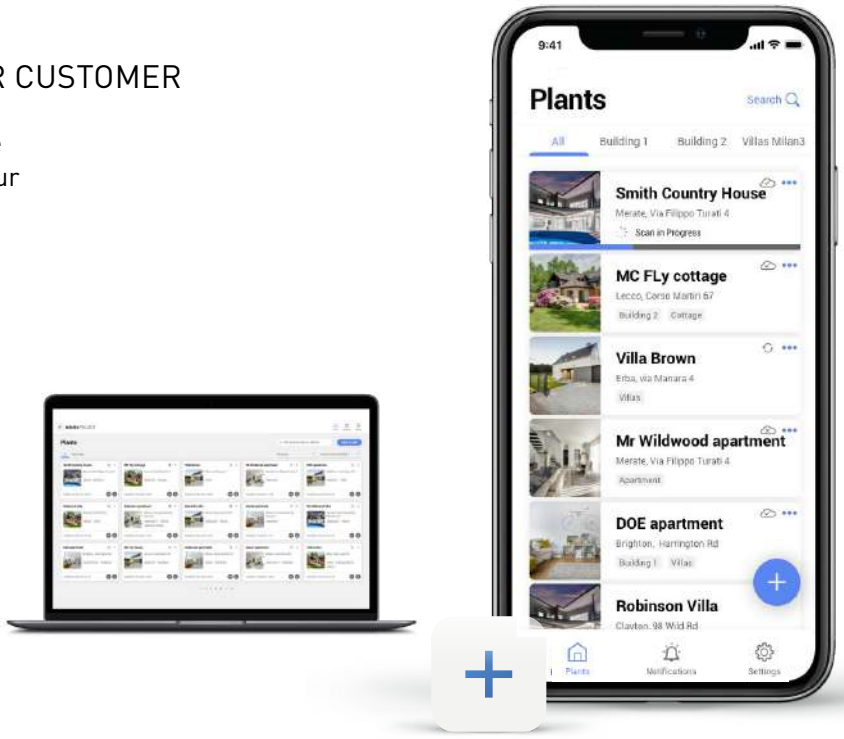


THE NEW APPS FOR YOU AND YOUR CUSTOMER

With MyHOME, you have available one single application for designing and configuring your system: **Home +Project**.

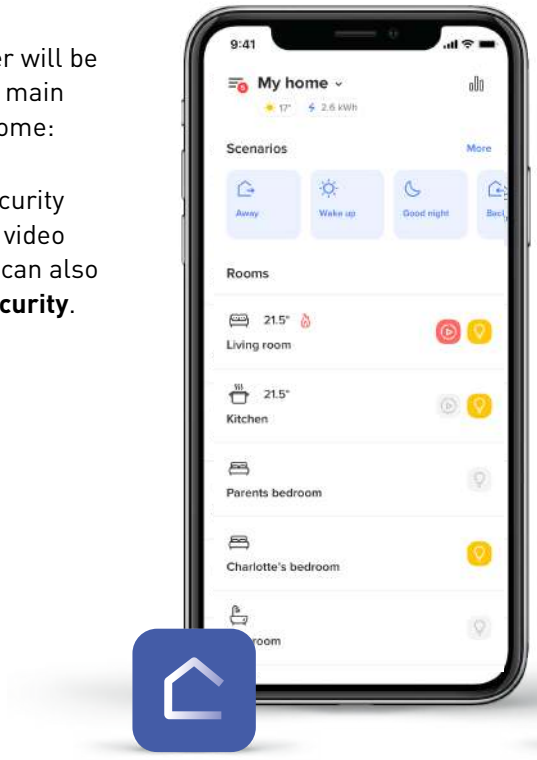
The App is available in a iOS and Android smartphone version, and in a 'Desktop' web App version for use with a PC and which can be found at the following address:

https://homeproject.legrand.com/



Home + Project
Design and configure the system

With one single App, your customer will be able to manage and control all the main functions and the comfort of the home: **Home + Control.**
If the system includes Netatmo security products, cameras or a connected video door entry system, your customer can also use the dedicated App: **Home + Security**.



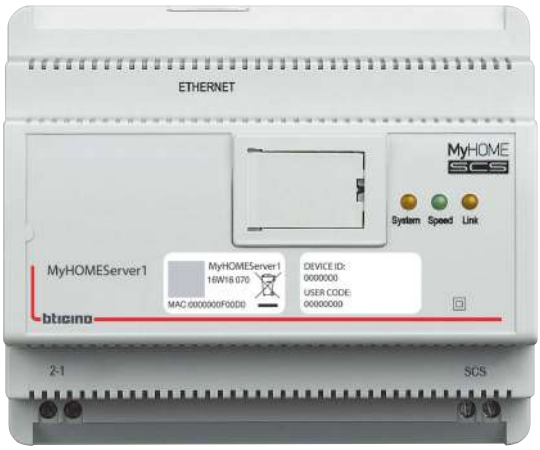
Home + Control
Manage all the home comfort functions.

Home + Security
Control the video door entry system and Netatmo products

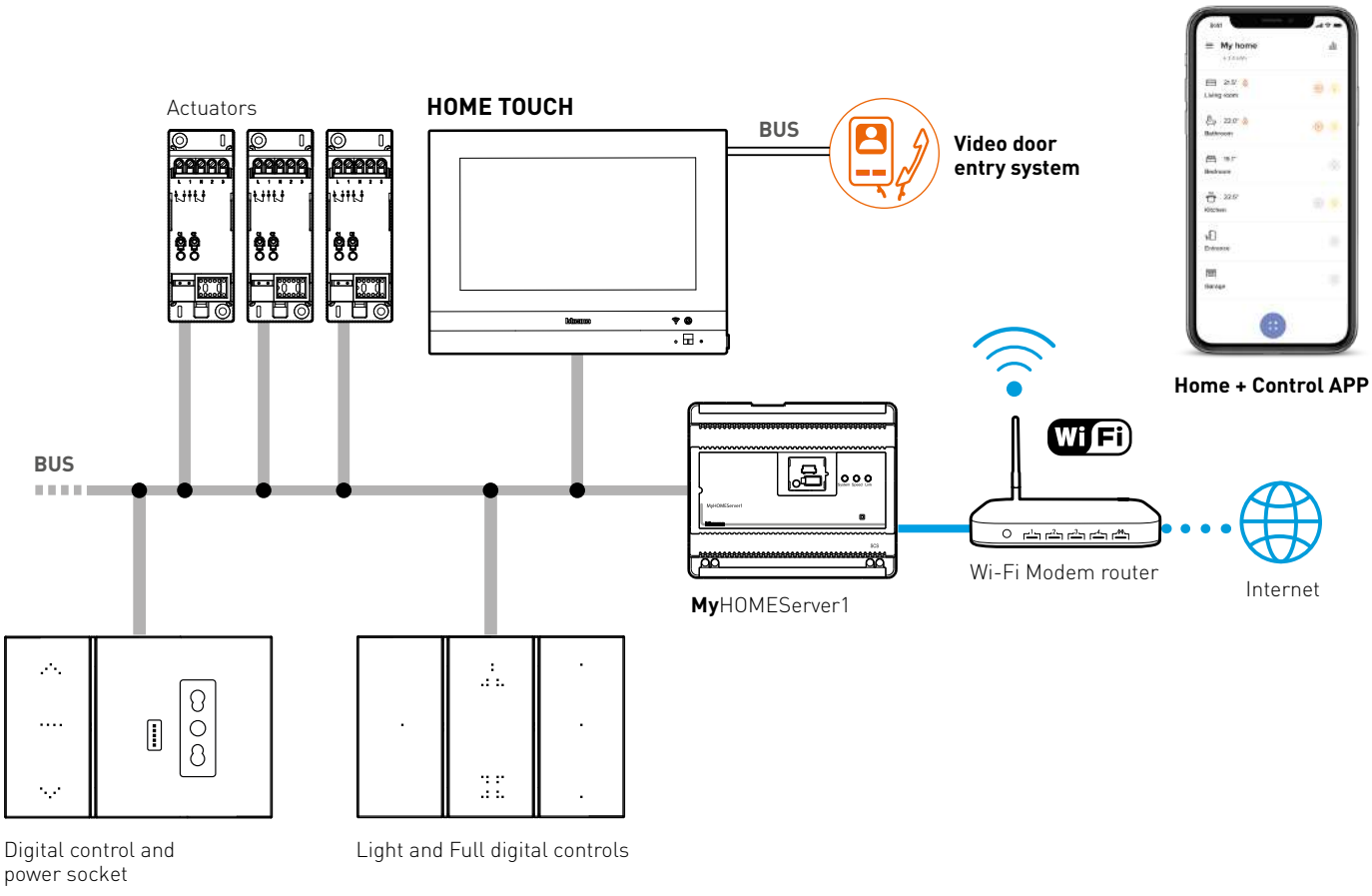
Freedom to choose the server you prefer

MyHOMEServer1 or in alternative Classe 300EOS with Netatmo.
Whatever the choice, your installation habits will not change.

MyHOMEServer1 is the classic DIN switchboard webserver for the remote configuration and management of the MyHOME system.
Choose it in case of new installations without video door entry function or where it is used with a HOMETOUCH touch screen.



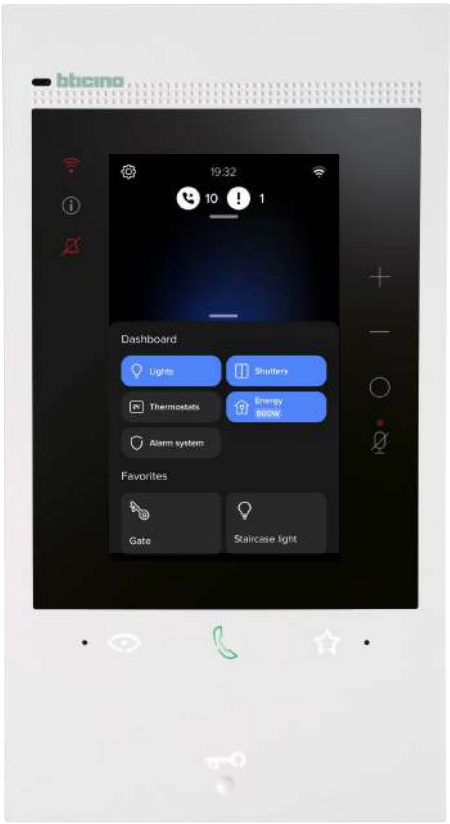
MyHOMEServer1



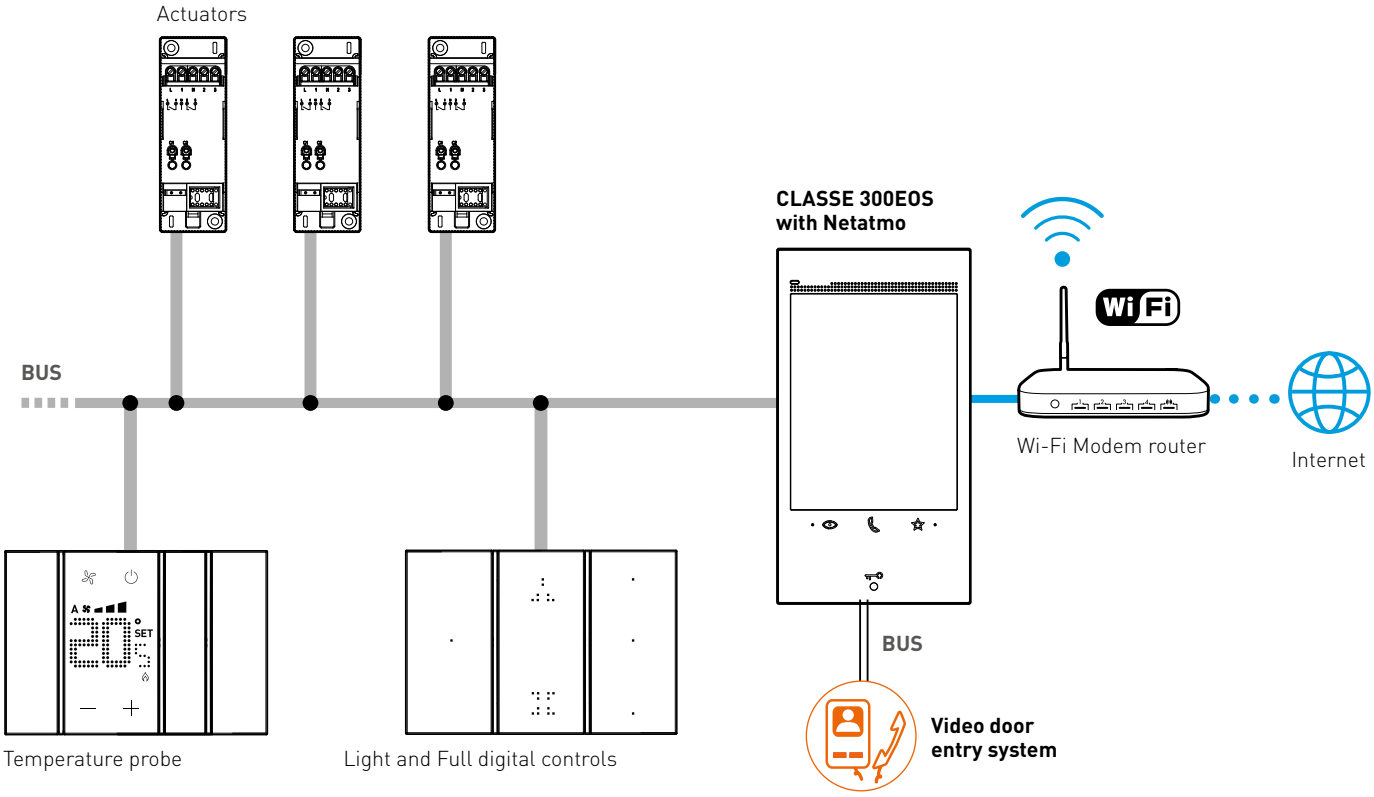
System with MyHOMEServer1 and use of Hometouch as a video internal unit.

Classe 300EOS with Netatmo is the first video internal unit with integrated Alexa assistant that also functions natively as a server for the MyHome system.

Choose it as an alternative to MyHOMEServer1 in the case of new installations where the integration of the video door entry system section is also required.



Classe 300EOS with Netatmo



System with Classe 300EOS with Netatmo as server as an alternative to MyHOMEServer1.

The system functions

LIGHT AND AUTOMATION MANAGEMENT

Management up to **175 channels (*)** (lamps, shutters, controlled sockets etc.).

Manageable functions:

- different lights and loads with ON/OFF and dimmed control;
- shutters with UP/DOWN control and management of the preferred position.
- automatic switching on of loads as a function of presence (using sensors) or the closing of a contact (using contact interfaces).

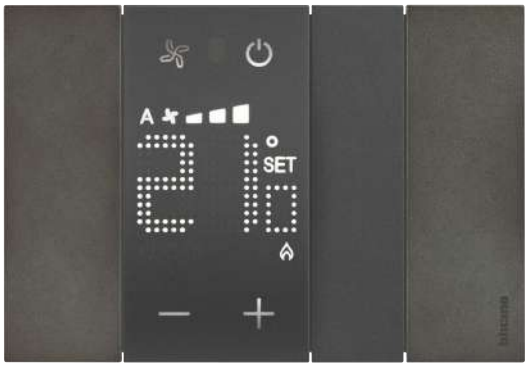
Digital light and shutter control

TEMPERATURE MANAGEMENT

Temperature control using probes with display, used as zone thermostat for the management of up to 99 zones.

Manageable functions:

temperature display and control using probe with display, Smartphone with the HOME+CONTROL APP and HOMETOUCH touch or Classe 300EOS.



Probe with display

LOAD CONTROL

Management of the maximum power used by the electric system of the home by automatically disconnecting, in case of overload, the less important appliances in order to avoid blackouts. The value of the power that can be controlled and set in the control unit is between 1.5 and 18 kW.

Manageable functions:

- management of up to 63 loads with corresponding disconnection priority, which can be configured based on specific customer needs;
- possibility of reactivating the disconnected load using the HOMETOUCH touch screen, Classe 300EOS and flush mounted devices. If the overload condition persists, the control unit will disconnect the next least important household appliance.

Socket and load management actuator

Note (*): Channel means the individual relay or output of the actuator for the management of the load. The count includes any preset or unused outputs. For example, the actuator F411/4 with 4 independent relays is identified in the HOME+PROJECT app as a 4-channel device.

CONSUMPTION DISPLAY AND ELECTRICITY PRODUCTION

Display by means of energy meters (max. 128) of consumptions of electricity and the production of instantaneous electrical energy.

Manageable functions.
The value of the instantaneous electricity consumption/ production can be displayed by the HOME+CONTROL App and be used as a condition for activating Smart scenarios.

Energy meter with supplied toroid

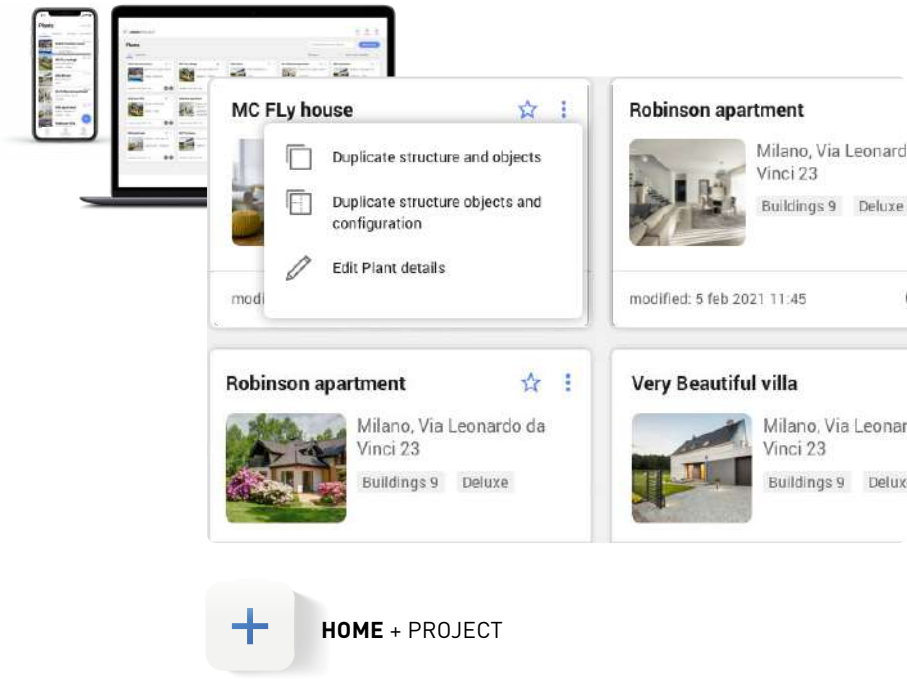
HOME + PROJECT App.
Design and configure the system simply!

HOME+PROJECT is the new work tool for the installer. It's available in 2 versions: a web App version for office design using a desktop, which can be obtained by accessing the **https://homeproject.legrand.com/** website, and an App version for iOS and Android mobile devices suitable for use on site.

Regardless of whether the system server is MyHOMEServer1 or Classe 300EOS with Netatmo, the design and configuration experience will be the same: simple and intuitive.

The new functions of this tool have been conceived to simplify and speed up your work:

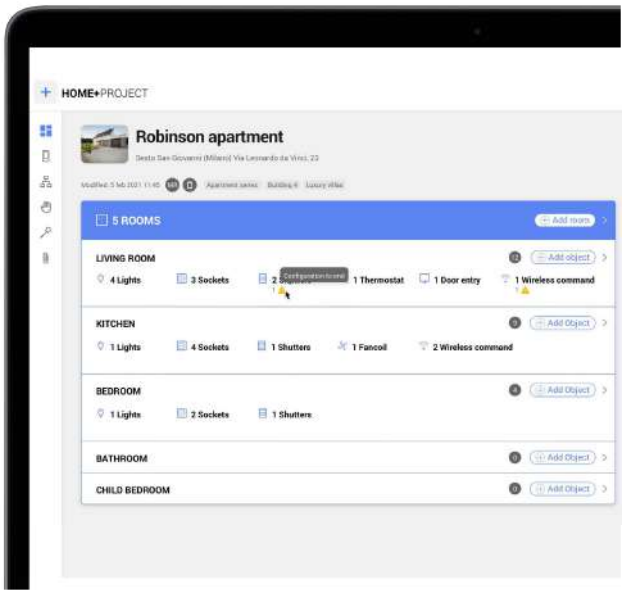
+ copy and paste your projects
+ share projects with your collaborators
+ connect to the system while on site, even without an internet network
+ deliver the already functioning system to your customer
+ create an always accessible archive of all your projects



HOME + PROJECT

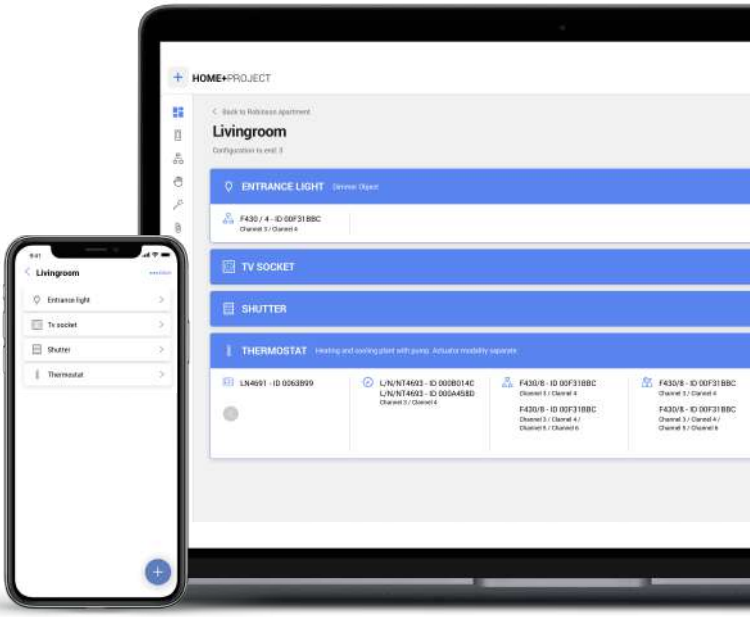
ALL THE PROJECT INFORMATION AT A GLANCE

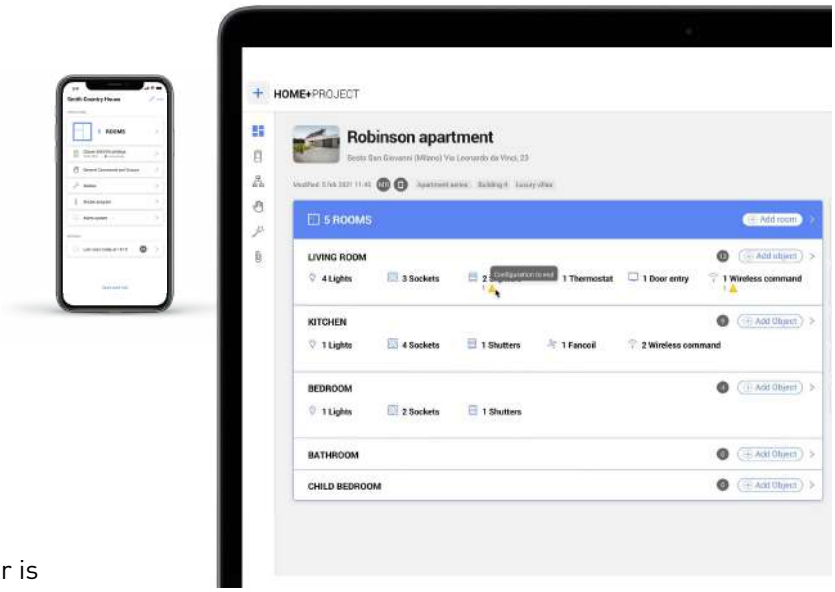
By selecting a single project, you can immediately access the complete view of the entire system: number of rooms, total devices, set scenarios and much more.



ALL THE DEVICES IN DETAIL

It displays in a very simple way the details of each individual room, to know the type, number and configuration status of each device.





WORK AS YOU LIKE: FROM MOBILE OR DESKTOP

1. Design the system

Create, both in the office or on site, the project with the list of rooms and objects.

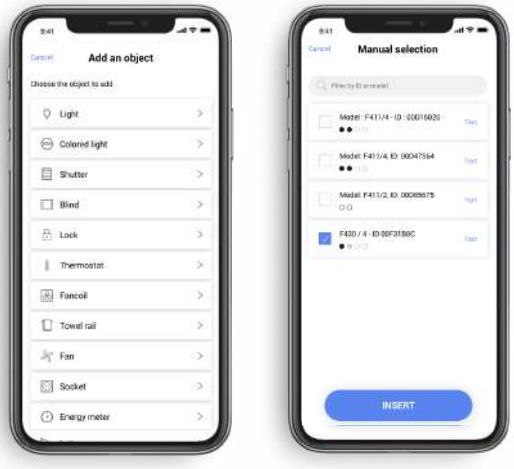
2. Configure the system on site

Connect the App to the system through the local Wi-Fi network generated by Classe 300EOS with Netatmo, or through an access point if the server is MyHOMEServer1, and start the system configuration process.

Proceed to the manual (push&learn) or automatic (scan) scanning of all the devices.

Configure them and insert them in scenarios.

Connection to the system



Device configuration

For more information, please see the MyHOMEServer1 and Classe 300EOS with Netatmo configuration manuals available in the online catalogue.

3. Hand the system over to your customer

Once the configuration has been completed, the system is ready.

Your customer only needs to download the Home+Control and the Home+Security Apps to start managing their home in an easy and smart way.

HOME + PROJECT App.
Design and configure simply.

FUNCTIONS THAT CAN BE CONFIGURED WITH HOME+PROJECT

The following table summarises the functions that can be configured with the HOME+PROJECT App.

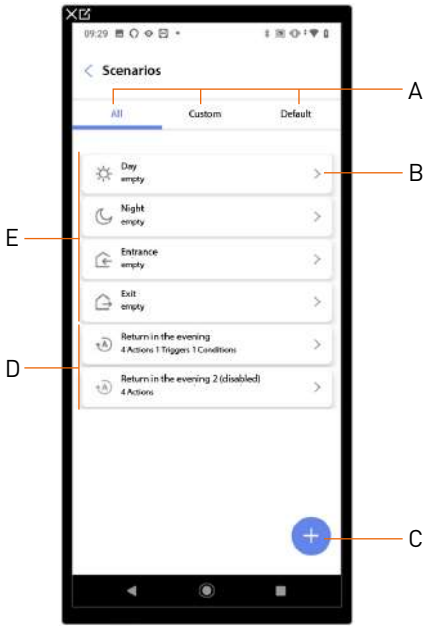
For more detailed and up-to-date information, please refer to the data sheets of MyHOMEServer1 and Classe 300EOS with Netatmo.

			CONFIGURATION USING HOME+PROJECT
FUNCTION			**BUS** (MHS1 or Classe 300EOS with Netatmo)
Light management	Actuators	ON/OFF DIN actuator	•
		ON/OFF flush mounted actuator	•
		ON/OFF DIN actuator with Zero Crossing	•
		DIN dimmer	•
		DALI DIN dimmer	•
		Flush mounted dimmer	
Shutter management	Actuators	Flush mounted UP/DOWN actuator	•
		UP/DOWN DIN actuator	•
		Up/Down actuator with blade management	•
Temperature control	Actuators	ON/OFF DIN actuator	•
		0-10V DIN actuator	•
		Actuator for 2-4-pipe fan-coils with ON/OFF valves and 0-10 V fan speed	•
		Actuator for 2-4-pipe fan-coils with 0-10 V valves and 3 ON-OFF fan speeds	•
		Actuator for 2-4-pipe fan-coils with ON/OFF valves and 3 ON/OFF fan speeds	•
	Thermostat	With display and front controls	•
		Temperature probe for junction boxes	•
		Without flush mounted display	•
Consumption display		Socket	
		DIN contactor	•
		DIN energy meter	3 toroids
Energy Management	Central unit	Central unit for DIN load management	•
	Actuators	Flush mounted 10A relay	•
		Socket	•
		DIN contactor	•
Scenarios*			**Max. 50 scenarios in addition to In&Out, Day&Night**
Interface		Digital controls	•
		Alexa built-in voice commands	•
		Pushbutton controls	•

SCENARIOS THAT CAN BE CONFIGURED WITH HOME+PROJECT APP

Using HOME + PROJECT it is possible to define 2 types of scenario:

- Default scenario;
- Customised scenario.



LEGEND

A Scenario display filter
B Opens the scenario page
C Adds a new customised scenario
D Customised scenarios
E Default scenarios

Default scenario

These are simple scenarios, which allow several system devices to be controlled at the same time.

In the Home + Project App are 4 default scenarios: Day, Night, In, Out, which correspond to the same found in Home + Control. The installer can configure them with Home + Project and the user can modify and use them with Home + Control.

Example of default "In" scenario:

- Shutters UP
- No effect on controlled sockets
- No effects on lights and different loads.

Customised scenario

The installer will also be able to create in Home + Project up to 50 customised scenarios: these are advanced scenarios involving, for example, particular or multiple starting conditions, rather than advanced automations. For this reason, the end user will NOT be able to change them using Home + Control, but only to enable or disable them.

Below are the conditions for activating the scenario:

PERFORM ACTIONS	WHEN	IF
Object	Touch a pushbutton on the system	An object is in a certain status (e.g. the shutter is up)
SPECIAL ACTIONS		
Waiting time	A certain time range is active from Monday to Friday (e.g. from 03:00 pm to 06:00 pm)	A certain time range is active from Monday to Friday (e.g. from 03:00 pm to 06:00 pm)
Email	The weather conditions set occur	
Push notification		

Object Action:
On setting this condition the scenario starts when an object, selected from those in the various rooms, is in a particular status previously defined. It is possible to use the characteristic statuses (ON/OFF, UP/DOWN etc.) whose implementation activates the scenario for any type of object.

Waiting time Action:
this condition allows to enter a specified time delay before the execution of subsequent commands.

Email Action:
this condition allows to automatically send an alert to the set email address, after the execution of the scenario.

Push Notification Action:
this condition allows to automatically send a push notification to the user smartphone after the actions or entire scenario are performed.

Control **My**HOME as you wish

MyHOME can be controlled by voice, with the App, with the HOMETOUCH 7" Touch Screen or with the Classe 300EOS interface, and obviously with the flush-mounted controls and with the more advanced digital controls.

CONTROL THE SYSTEM BY VOICE THANKS TO THE COMPATIBILITY WITH ALEXA, GOOGLE AND SIRI ASSISTANTS

«Ok Google, switch off all the lights»
«Alexa, switch the fan on»
«Alexa, welcome me home»

These are some voice controls for managing lights, controlled sockets and, through scenarios, also shutters and the ideal temperature.

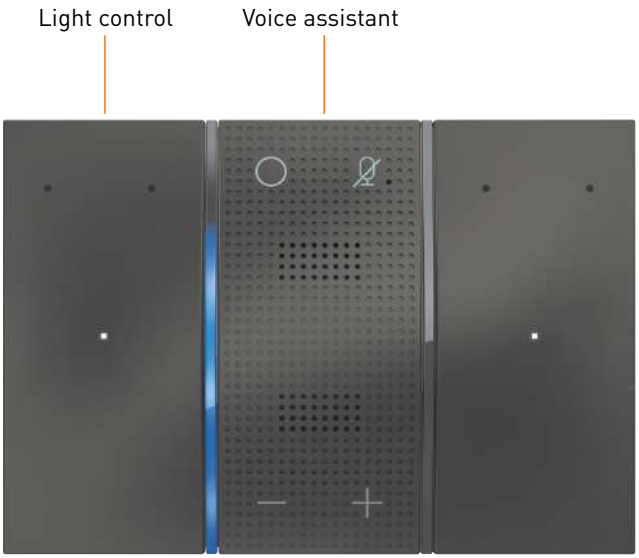
There are two system solutions that can be managed with voice assistants:

- **system with Classe 300EOS with Netatmo**. The device has Alexa built-in and therefore natively integrates the management of the system with Alexa. In addition, it is also possible to operate the system with the Google or Apple Homekit voice assistants.

- system with **MyHOMEServer1**, compatible with Alexa and Google third-party voice assistants.

Both solutions are also compatible with the **flush mounted built-in Alexa voice control**, which is part of the Living Now Digital Controls series

In addition to home management, it will be possible to interact with the Amazon, Google and Homekit platforms to request news, weather information, timetables, etc.

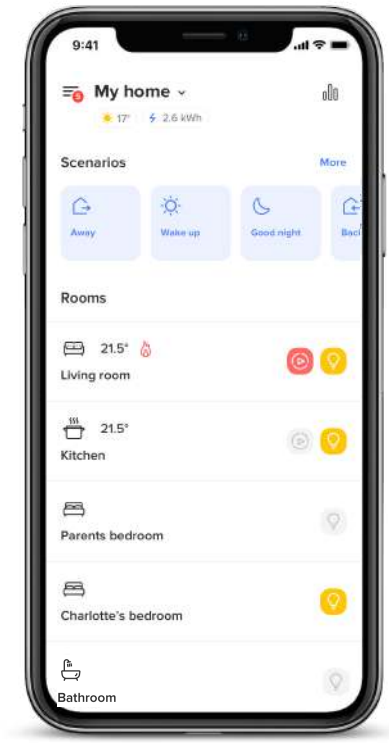


Alexa built-in voice control

alexa | built-in

HOME+CONTROL APP

HOME+CONTROL is the new App with which your customer can manage and customise in full autonomy their MyHOME system.
Using the simple and intuitive interface, both inside and outside the house, it is possible to:
- Control the lights, shutters and loads connected to the sockets;
- Adjust the temperature;
- Check home electricity consumptions;
- Receive notifications on the load and system status;
- Control the loads to avoid blackouts;
- Create and manage customised scenarios as well as enabling or disabling those set by the installer with the HOME+PROJECT app.



HOME + CONTROL

HOME+SECURITY APP

VIDEO DOOR ENTRY SYSTEM

For systems with Classe 300EOS, the customer uses this App to manage the video door entry system. It also answers calls remotely, so as not to miss any mail, parcels, etc.

For systems with MyHOMEServer1 and HOMETOUCH, use the Door Entry App for HOMETOUCH to operate the video door entry system.

HOME + SECURITY

Control **My**HOME as you wish

CONTROL USING THE CLASSE 300EOS WITH NETATMO INTERFACE

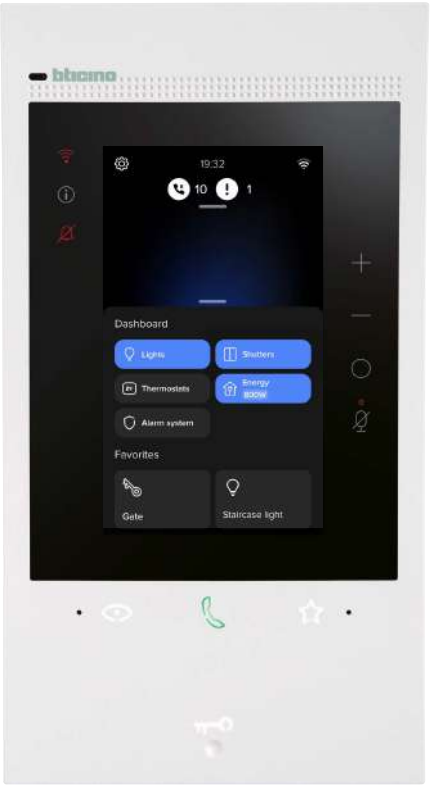
When used as a gateway for the MyHOME system, the Classe 300EOS with Netatmo interface allows to control and manage all the system functions such as:

COMFORT
- light management (general and room commands);
- shutter management (general and room commands);
- management of individual devices and scenarios using the favourites menu

ENERGY MANAGEMENT
- energy consumption display;
- control of anti black-out absorption;
- temperature display and thermostat management using the boost function

SAFETY
- display of the smart Netatmo cameras

VIDEO DOOR ENTRY SYSTEM (VDE)
- receiving calls;
- management of the electrical door lock.
- automatic switching on of the entrance panel



alexa built-in works with Google Home

Classe 300EOS with Netatmo
item 344842

CONTROL USING HOMETOUCH INTERFACE

In systems with the MyHOMEServer1 as gateway, the user can use the HOMETOUCH device to manage all the system functions.

The managed functions:

COMFORT
- light management;
- shutter management;

ENERGY MANAGEMENT
- energy consumption display;
- control of anti black-out absorption;
- temperature display and management of thermostats and programs

VIDEO DOOR ENTRY SYSTEM (VDE)
HOMETOUCH integrates the BTicino video door entry system and therefore can also be used as connected internal unit for the handling of calls both locally and from the Smartphone, using the free DOOR ENTRY for HOMETOUCH app.

HOMETOUCH grey colour **item 344842**
and white colour **item 3488W**

CONTROL USING MANUAL CONTROLS

Controls with silk-screen printed key covers

The range of manual control devices also includes products of the Living Now, Livinglight, Axolute and Matix ranges, to be completed with key covers with silk-printed function symbols. Also for these controls the association of the functions is completed using the HOME+PROJECT app.

Living Now digital controls

Available in the innovative Living Now full-button design and with capacitive pushbuttons with LED icons.

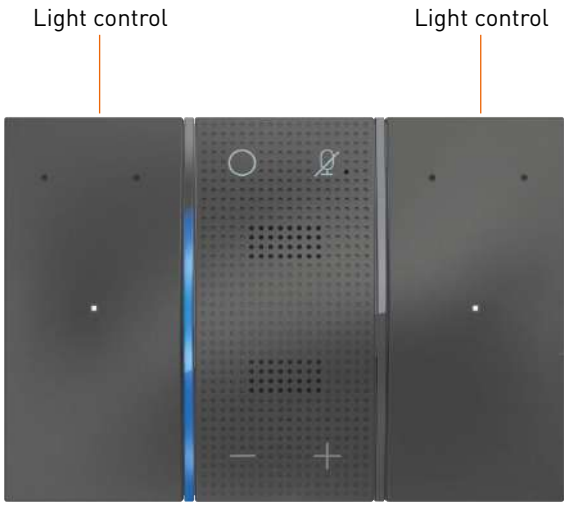
Three versions for each need:

- LIGHT control to manage the lighting (1 or 2 lights, groups and general control);

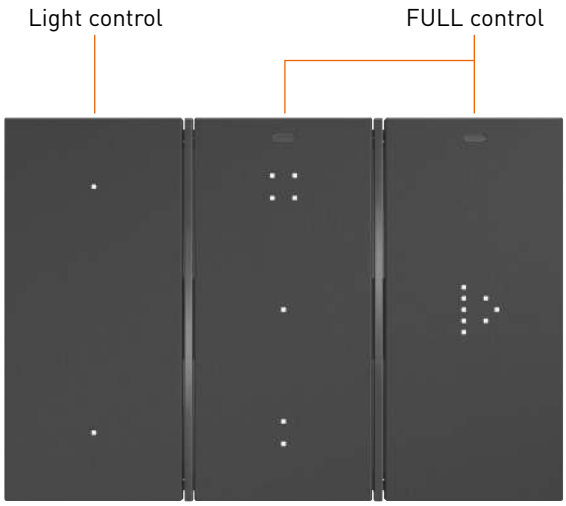
- FULL control to manage from 1 to 3 functions (lights, dimmers, shutters, load control, scenarios and coloured lights).

- VOICE control with Amazon Alexa built-in voice assistant including two LIGHT controls.

The function associated to the control device and the corresponding icon can be changed at any moment by the installer during the start up of the system and also by the user using the Digital Controls application.
In addition, the device may also be expanded for new functions, and moved around the home without any need for rewiring.



Alexa built-in voice control



Digital controls

An open system

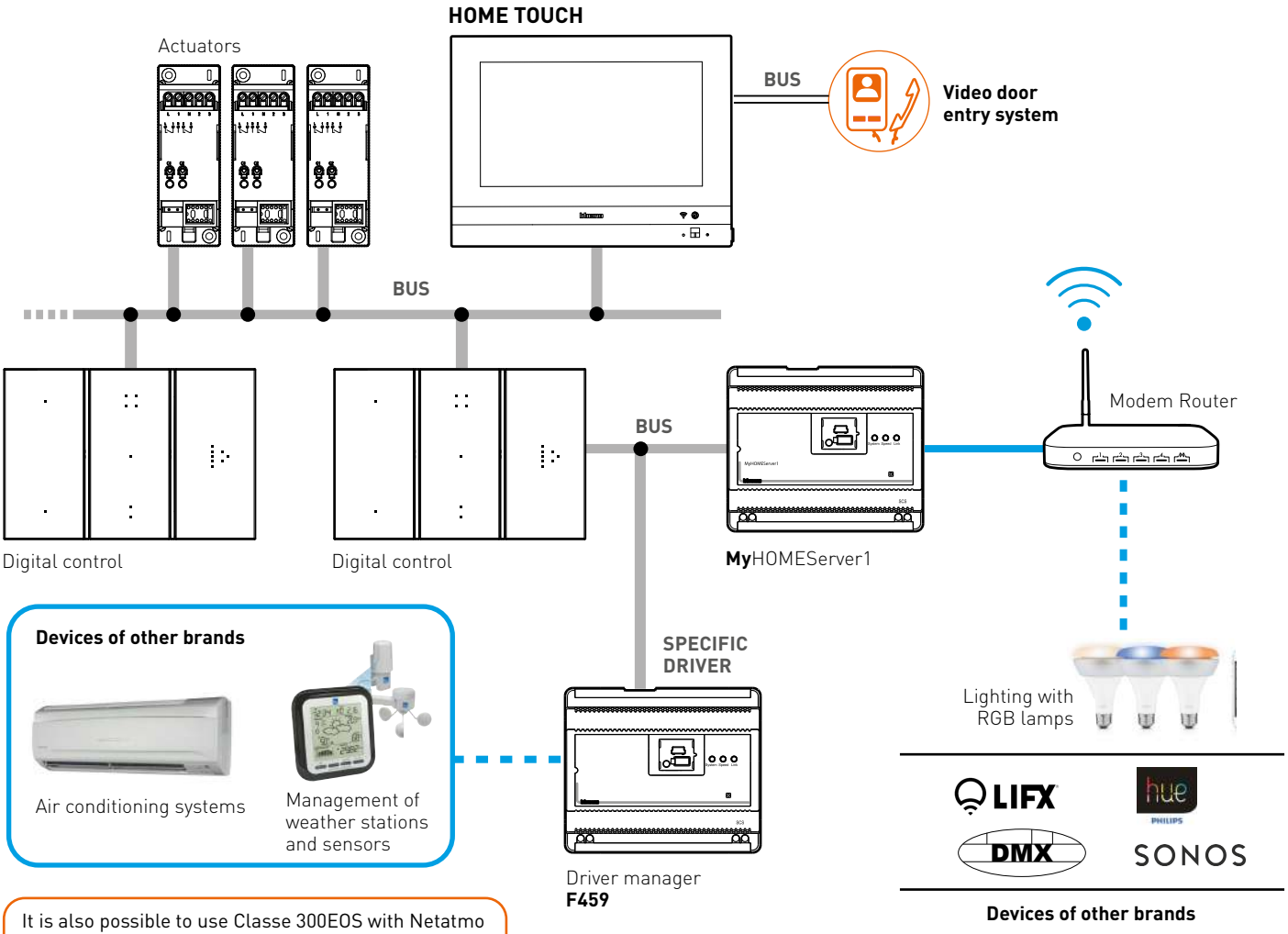
MyHome is an open system that can be easily integrated, without requiring any system changes, with the best third-party technologies, systems and devices in three different ways.

1. NATIVELY INTEGRATED WITH **MyHOMESERVER1 AND CLASSE 300EOS WITH NETATMO.**

The MyHOMEServer1 servers and the Classe 300EOS with Netatmo video door entry system internal unit allow the integration of MyHOME with other systems and products, including third-party products, using the LAN network and the TCP IP communication protocol.

As shown in the diagram below, it is easy to integrate MyHOME with third-party devices such as RGB lamps (Philips Hue, LIFX, DMX), Sonos audio devices, etc.

The integration allows the user to manage all the integrated automation functions through the Home+Control App and the security functions (video door entry system and burglar alarm) using the Home+Security App.



It is also possible to use Classe 300EOS with Netatmo as server of the MyHome system, as an alternative to MyHOMEServer1. In this case it is not possible to install the Hometouch touch.

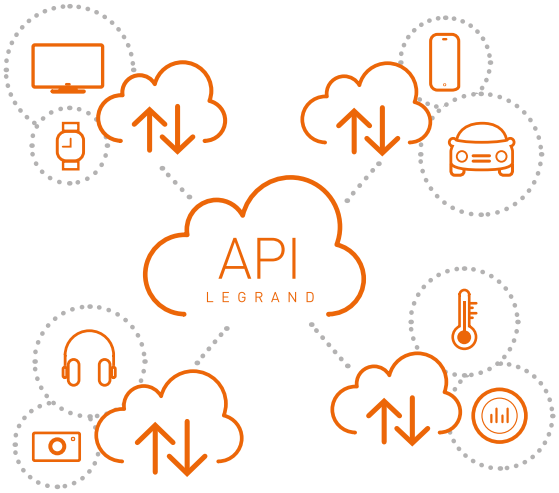
2. INTEGRATION WITH DRIVER MANAGER **ITEM F459** OR WITH **CLASSE 300EOS**:

This mode is achieved with the use of integration drivers purposely created based on the characteristics and functions of the system to integrate (for example to integrate MyHOME with HVAC Samsung and Mitsubishi systems, etc.);

It is a reliable, scalable and customisable solution for creating functions not available with the MyHOME system. Integration is possible both with MyHOMEServer1 and with Classe 300EOS with Netatmo.

3. INTEGRATION THROUGH THE USE OF **APPLICATION PROGRAMMING INTERFACES** (API).

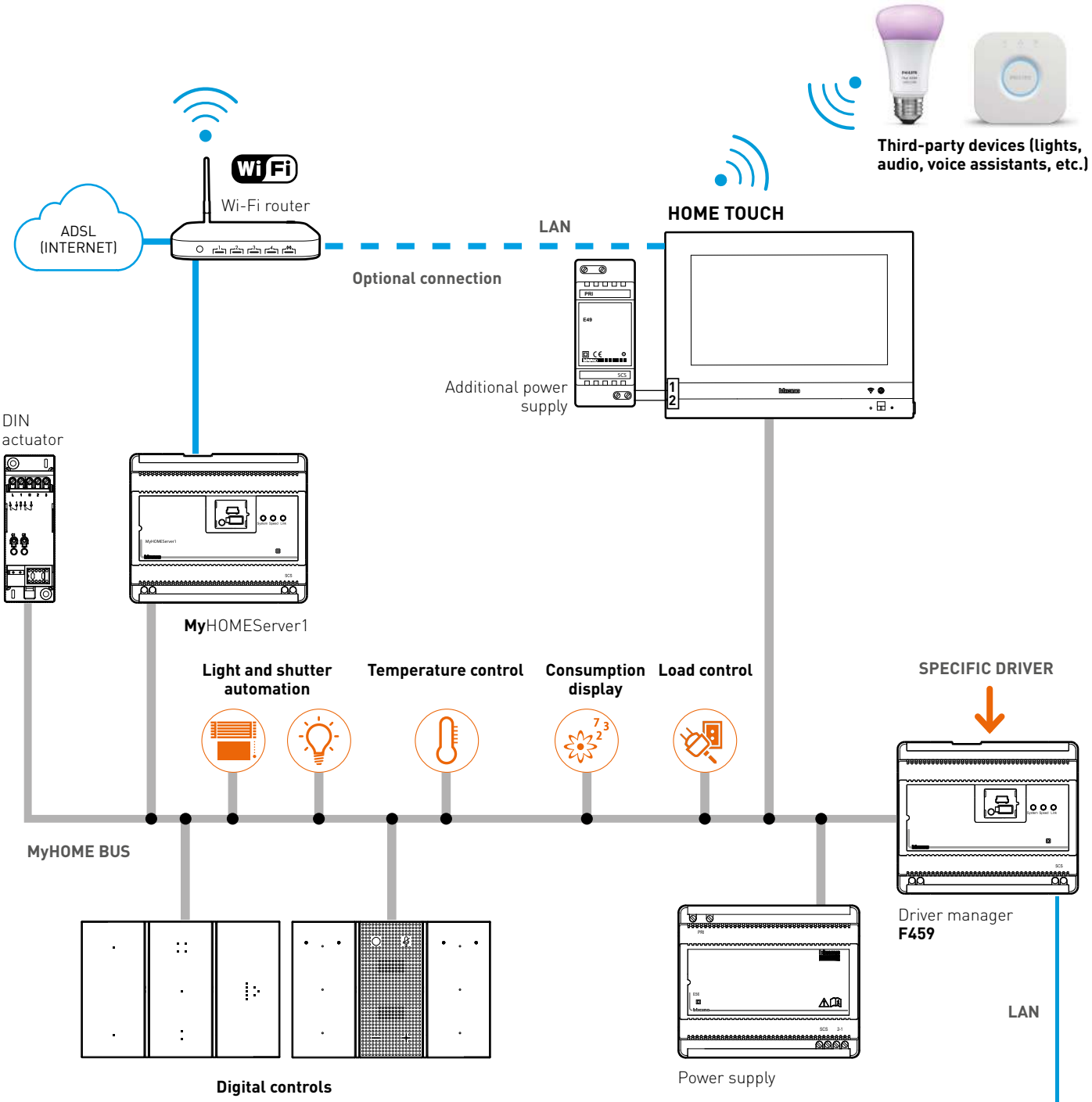
This is a type of integration that requires interoperability via Cloud IOT platforms such as the Google and Amazon platforms.
These solutions are available and developed by the "Works with Legrand" integration platform.
For details please consult the following site
https://developer.legrand.com/



Functional diagram of a **My**HOME system

The procedure for the creation of a **My**HOME system is similar to that for a traditional system.
The DIN modular devices must be installed in a general panel. All the others must be flush or wall mounted.

The grey 2 wire cable should be used for the wiring of BUS devices, while video door entry systems require the white cable.

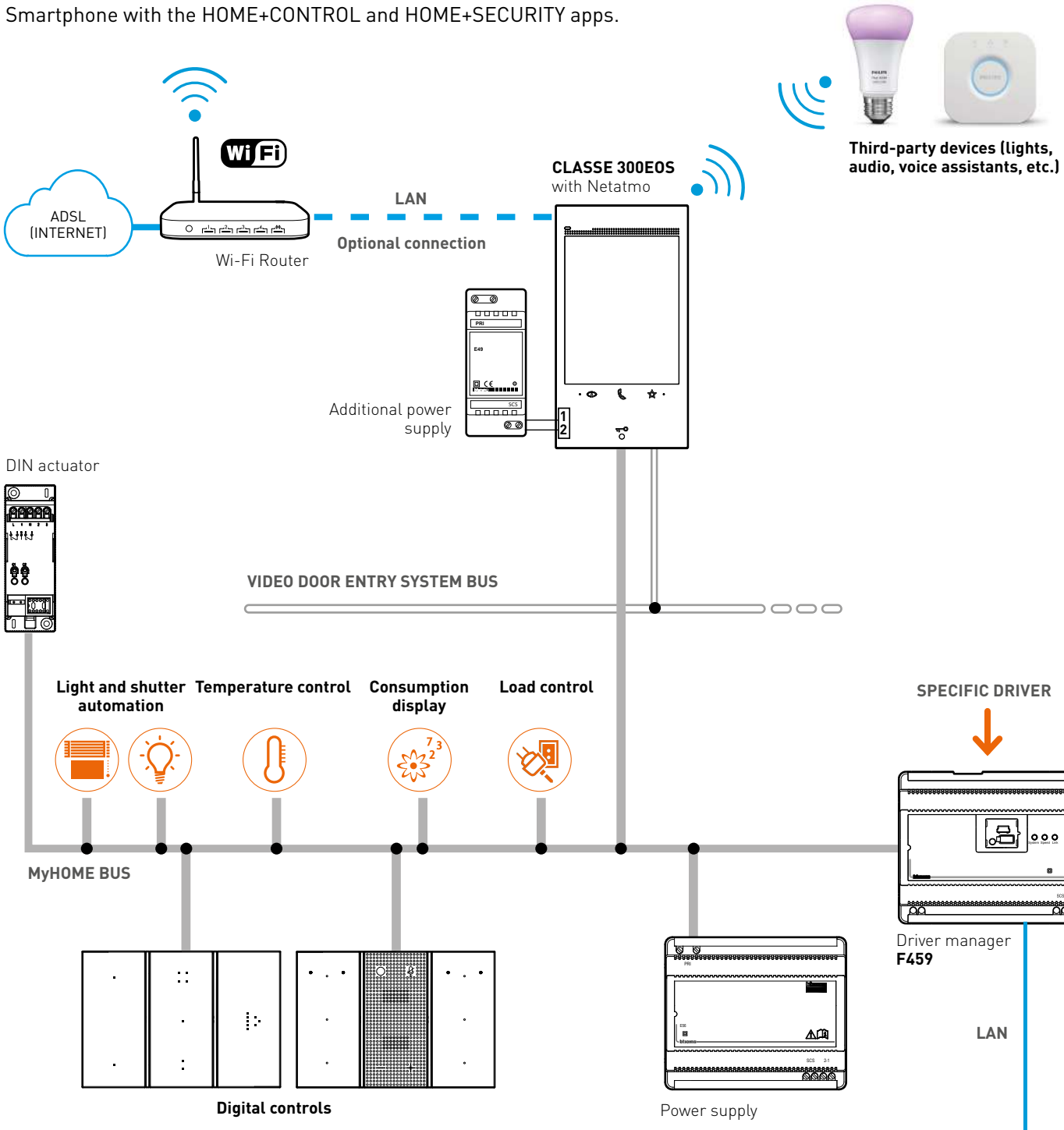


System with MyHOMEServer1 as server

LAN Wi-Fi network
Grey BUS cable
Network cable
White BUS cable

Note: for further technical information see the "APPENDIX" section at the end of the document

It will be necessary to install a wired and Wi-Fi network, for the integration of any installed third-party devices.
Internet connection is also required for the remote control of the system using a Smartphone with the HOME+CONTROL and HOME+SECURITY apps.



System with Classe 300EOS with Netatmo as server

LAN Wi-Fi network

Grey BUS cable

Network cable

White BUS cable

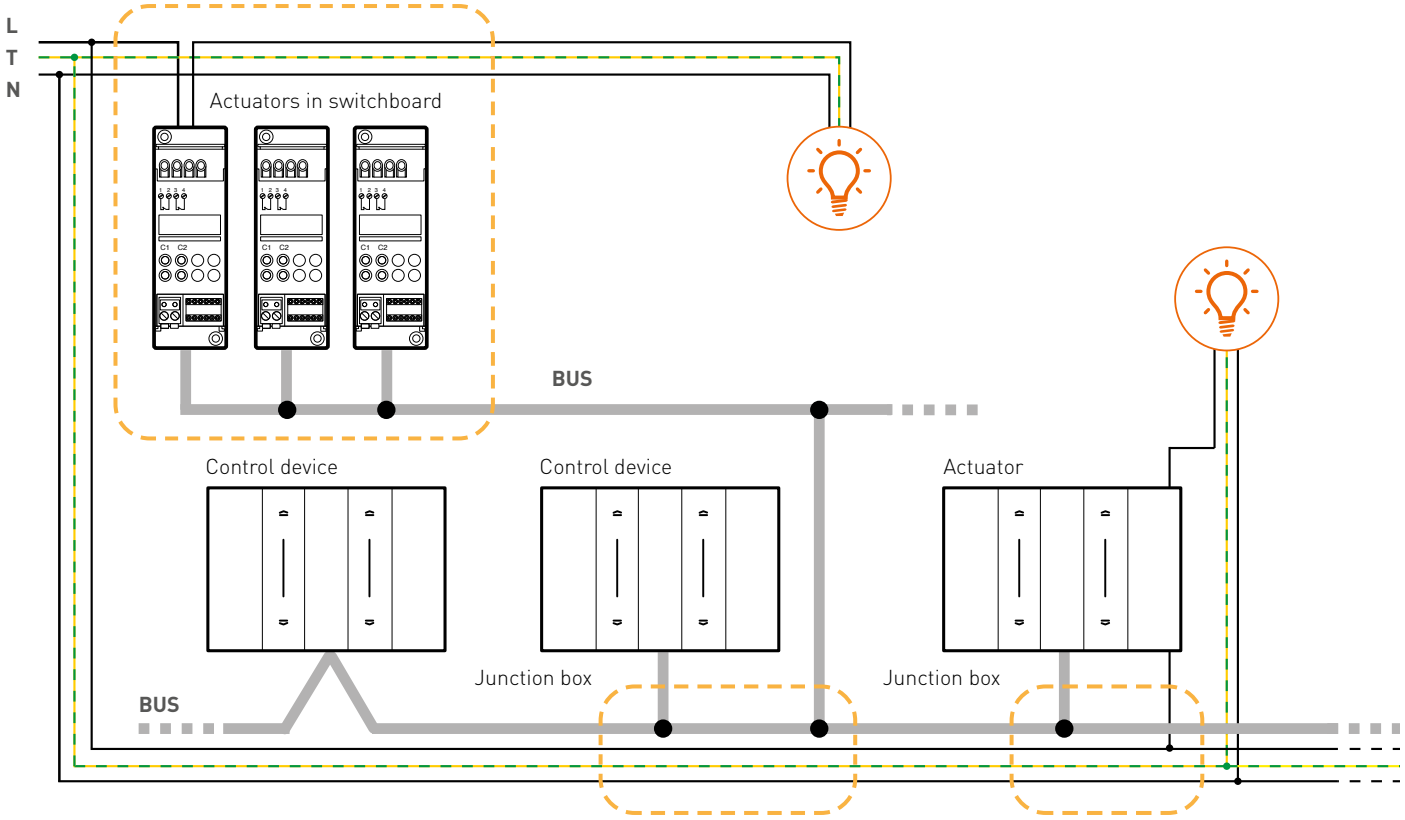
Note: for further technical information see the "APPENDIX" section at the end of the document

The installation of a BUS system

FEATURES OF THE **My**HOME WIRING

The **My**HOME system uses BUS installation technology: all the devices are connected "in parallel" by means of a two-conductor wire, used to transport the information and low-voltage electrical power supply (27 V d.c.).

As can be seen from the diagram given below, relating to the lighting system, the power line for the load power supply is free of the control line and the control line is independent of the functional wiring.



MAKING THE WIRING

The wiring distribution can be made with:

- **Free structure**
- **Star structure**

The selection must be made in relation to the installation needs, the functions required, wall limitations, refurbishments or new buildings.

Wiring with free structure

This wiring is usually used in traditional distributions.
If the building already has energy system conductors with suitable diameter they can be used to insert the BUS pair because it has an isolation voltage of 300/500 V.
These indications also apply to the installation of the junction boxes which must be arranged in suitable number and positions to the "in parallel" connection of the various stretches of pair.

Wiring with star structure

This wiring should be used when the system will be integrated with the data transmission, video door entry, CCTV, sound, telephony and TV/SAT systems in a single conductor.
The wiring structure is made up of a central point called the "star centre" made with a switchboard or an electrical board in which all the peripheral branches of the various wirings converge. The conductors must be installed providing junction boxes every 10 metres for the pulling of the wires.

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 E56 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 connection length between the power supply and the furthest device must not exceed 250 m.
- The total length of the connections must not exceed 500 m (cable extended).
- For optimum division of the currents on the bus line, it is recommended that the power supply is installed in an intermediate position.

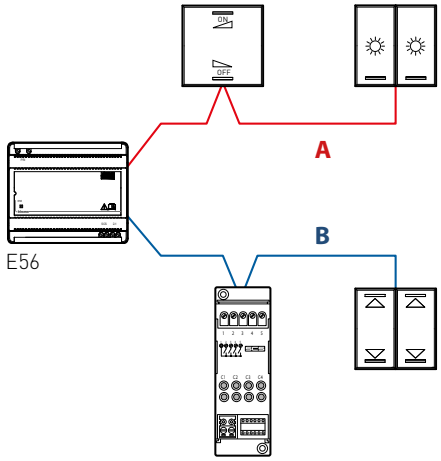
With power supply E56:

A = 250 m max

B = 250 m max

A + **B** = 500 m

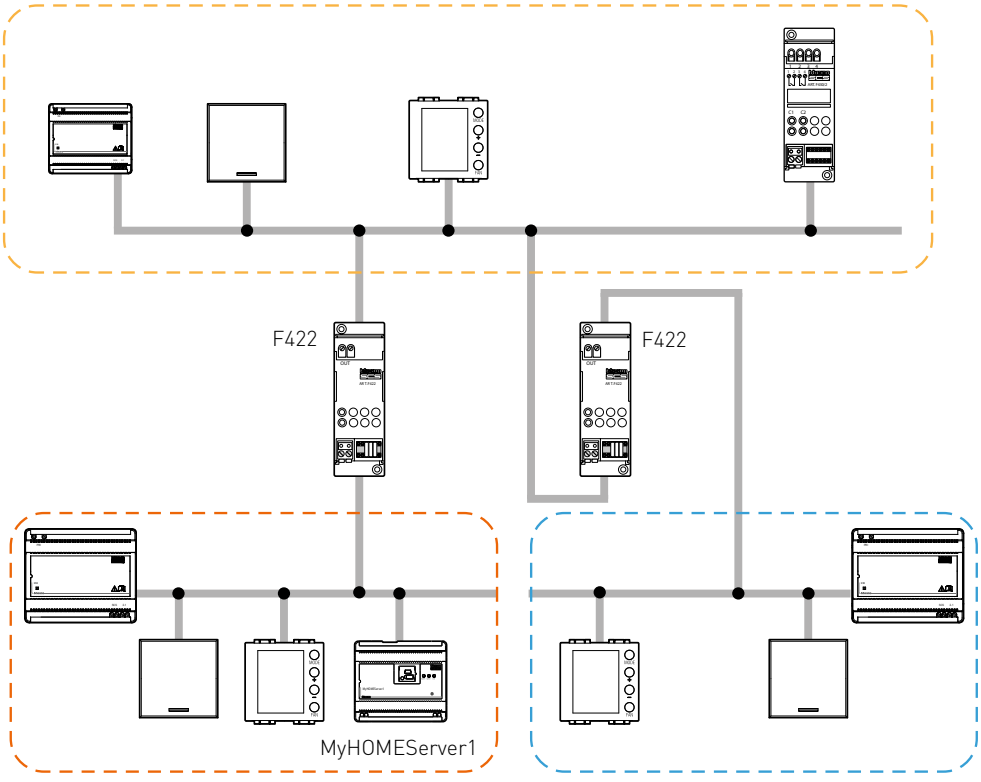
NOTE: If a UTP5 cable is used in alternative to the L4669 BUS cable, distances are halved.



SYSTEM PHYSICAL EXPANSION

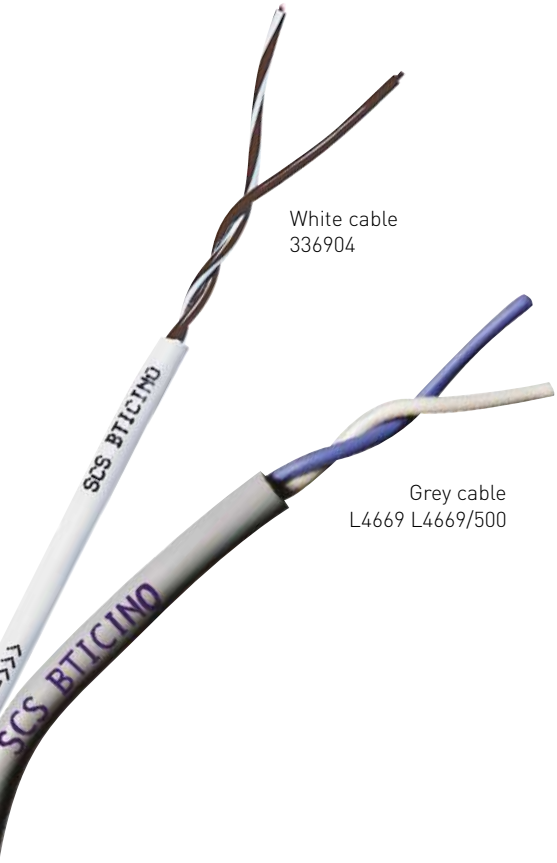
Particularly extended systems, or systems with overall device absorption exceeding 1200mA supplied by power supply E46ADCN, can be split into several sections powered with their own power supply unit and connected to each other using the F422 interface, configured in "physical separation" mode.

When sizing the system, consider that it is possible to install up to 4 interfaces to split the system into 5 separate sections.
For further indications and for different system topologies, please refer to the technical data sheet of the F422 interface, available at professionisti.bticino.it



The installation of a BUS system

CHOICE OF THE WIRING CABLES



BTicino cable 336904 and 336905

cable made of 2 twisted conductors It can be used for video door entry systems, and also for MyHOME systems when underground installation is required, running inside appropriate conduits.
The cable item 336905 is a low toxicity cable, halogen-free, to be used where fire safety is particularly critical.

Technical features

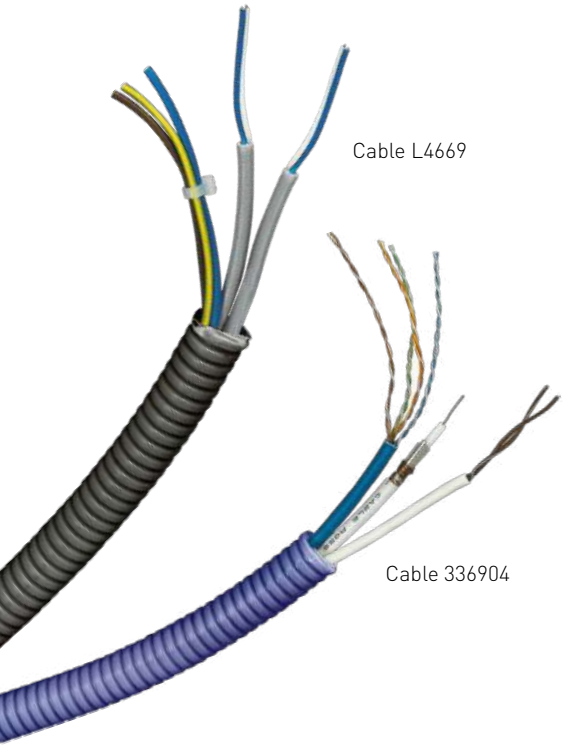
- SCS sheathed pair made up of 2 flexible conductors with unshielded twisted sheath
- Insulation voltage: 400V
- Coil length: 200 metres

BTicino cable l4669

This cable is used for BUS systems in the following applications: Automation, Energy control and Temperature control. Thanks to the BUS cable with 300/500 V insulation and the cover for the protection of the clamps with which all devices are equipped, BTicino systems can also be installed in the same boxes and conduits as the power line (230 Vac).

Technical features

- SCS sheathed pair made up of 2 flexible conductors with unshielded twisted sheath
- Insulation voltage: 300/500 V
- Coil length:
  - 100 metres (item L4669)
  - 500 metres (item L4669/500)



Cable coexistence

Although the construction of the cables guarantees 300/500 V electrical insulation, there is no guarantee of immunity from disturbance, which may occur when the cable is installed inside the same conduits as the 230 V power supply cables. These types of installation are strongly NOT recommended.

However, in case of refurbishment, the grey cable, items L4669 and L4669/500, and the white cable, item 336904/..5, can be routed inside the same conduits of the traditional electric system. This solution ensures significant savings, both in terms of masonry works and financial.

The video door entry system **WHITE BUS** can be routed inside the same conduits of the data transmission, telephone and TV-SAT cables. However, it must be kept separate from the power line.

The separation of the power lines from the signal lines MUST also be ensured inside the junction boxes and the electrical panel.
Therefore, attention must be paid to the point of entry of the conduits in junction boxes and the electrical panel.

The following table can help to select the type of cable to use based on the MyHome application.

		MYHOME APPLICATIONS					
		COMFORT			SAVING	COMMUNICATION	
		Lighting	Automation	Temperature control	Energy Management	Video door entry system	Data network
	BTicino 336904 and 336905	🟡 (*)	🟡 (*)	🟡 (*)	🟡 (*)	🟢	
	BTicino L4669 and L4669/500 (grey)	🟢	🟢	🟢	🟢	🟡	
	BTicino L4668CM UTP 5	🟡	🟡	🟡		🟡	🟢
	Multi-pair UTP 5E BTicino C9881U/5E C9882U/5E						🟢

🟢 Cables recommended by BTicino (meeting the installation regulations)

🟡 Cables that may be used (for every system check against the installation regulations)

NOTE (*): Mandatory for the underground sections of the individual systems

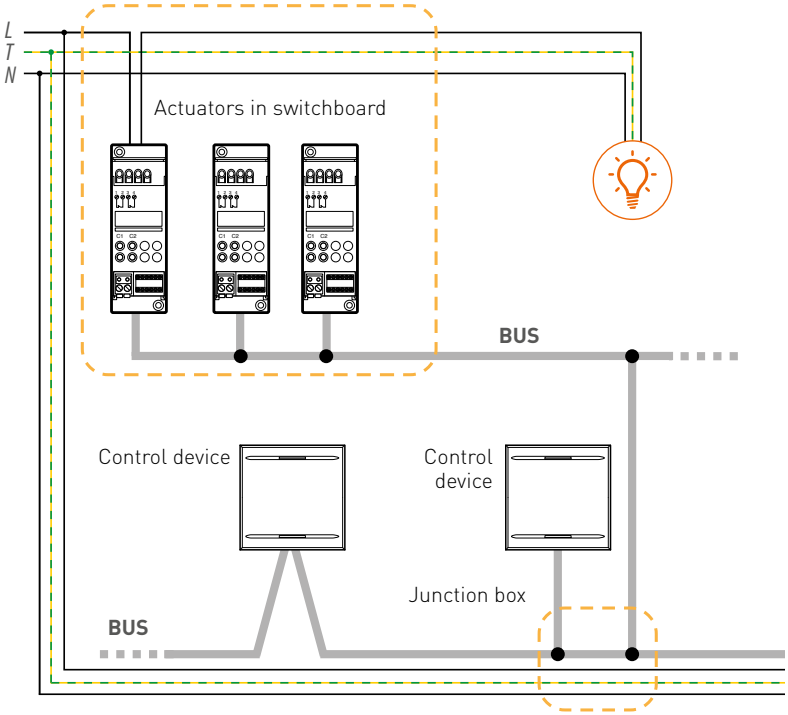
Light and automation system

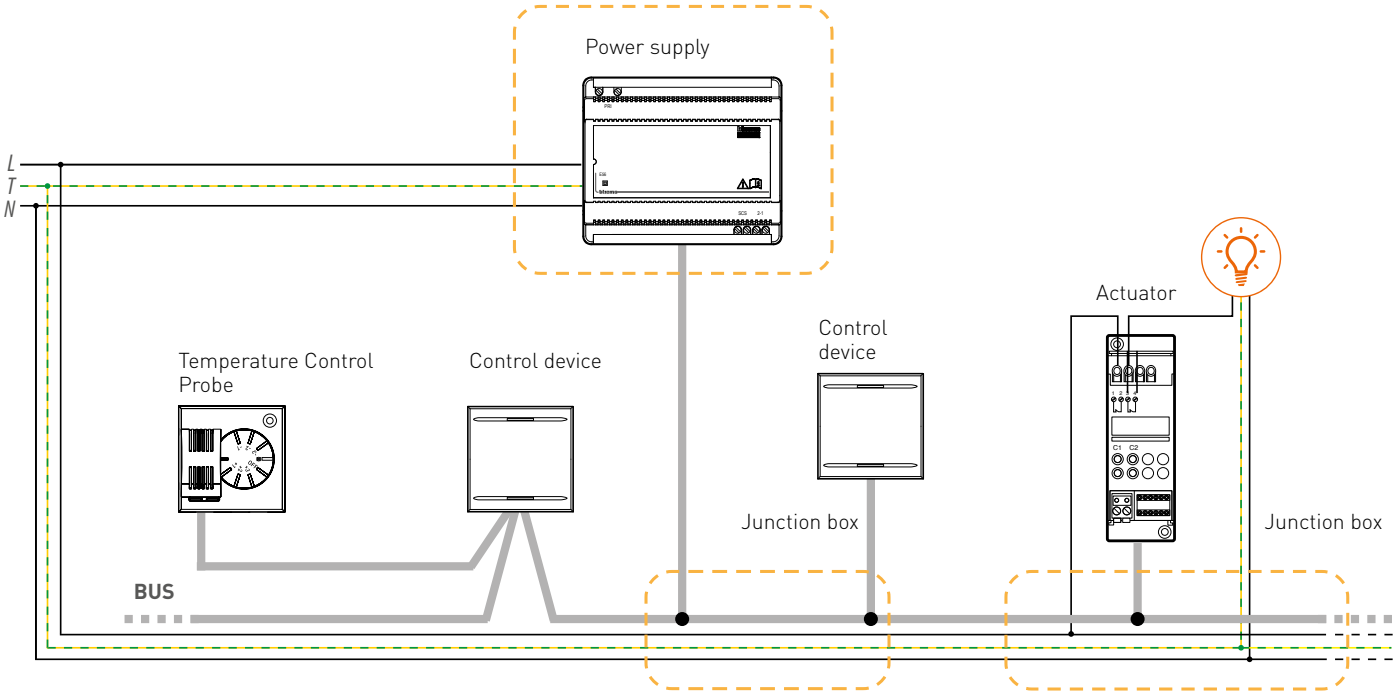
POSITIONING OF DEVICES (POWER SUPPLIES AND ACTUATORS) DEPENDING ON LOCATION

Comply with the following recommendations:

- **1, 2 or 3 rooms:** group the DIN actuators together in the electric/home automation panel, and distribute flush mounted actuators.
- **more than 3 rooms:** group together and, when convenient, distribute the actuators inside junction boxes. A "flush mounted" actuator should be preferred for the shutters.
- **several floors:** install an electrical panel for each floor, for grouping the actuators together. Where it is convenient to install the actuators in junction boxes.

Centralised installation: the actuators are grouped together in the electrical panel





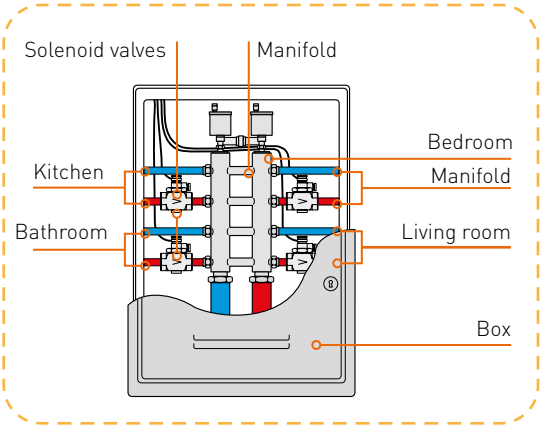
Distributed installation: actuators and control devices are installed in device or junction boxes.

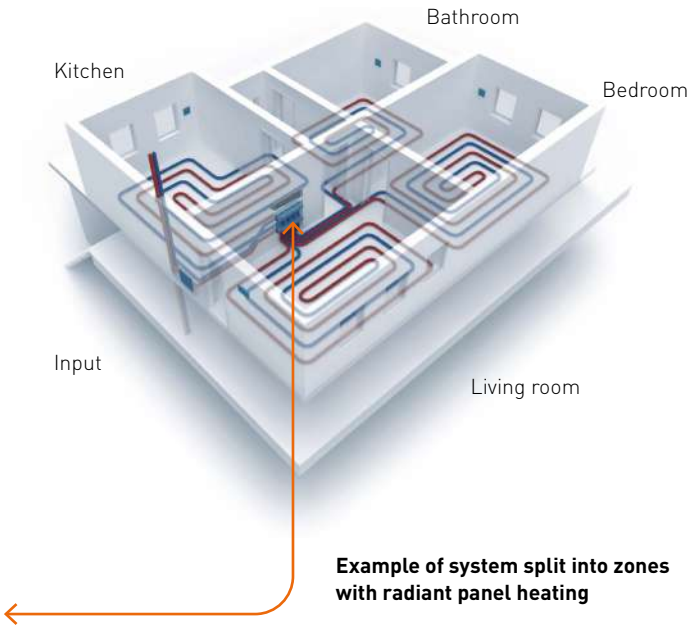
Temperature control system

The design of a temperature control system must be completed with the help of the temperature control system/water system designer, in order to allow for the following requirements:

SEPARATION OF THE SYSTEM INTO ZONES

To allow zone temperature control of the home, the solenoid valves for the management of each individual zone must be installed on the distribution manifold.



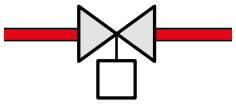


Example of system split into zones with radiant panel heating

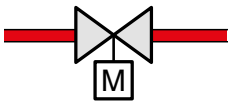
TYPES OF MANAGEABLE SOLENOID VALVES

The solenoid valves for the management of the zones must be of three types:

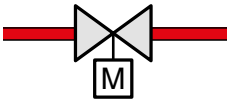
- with ON/OFF contacts



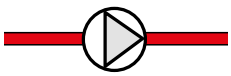
- with open/close contacts



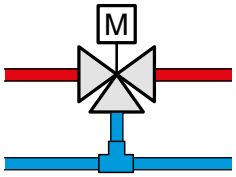
- with open/close contacts 0÷10 Volt



The MyHOME temperature control system can also manage circulation pumps.



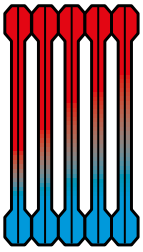
WARNING: proportional mixing valves cannot be directly managed by the MyHOME temperature control system. They require an external control unit supplied by the radiant panel system manufacturer.



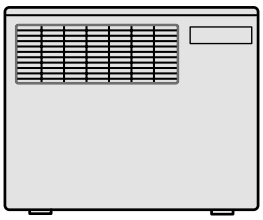
Temperature control system

TYPES OF SYSTEMS THAT CAN BE MANAGED

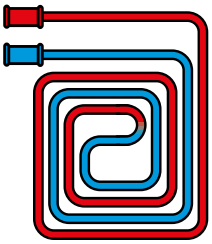
a. Radiators



b. Fan-coil



c. Radiant panels



d. Systems:

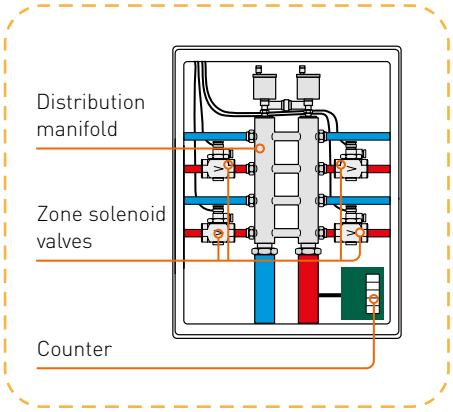
Heating Cooling Both

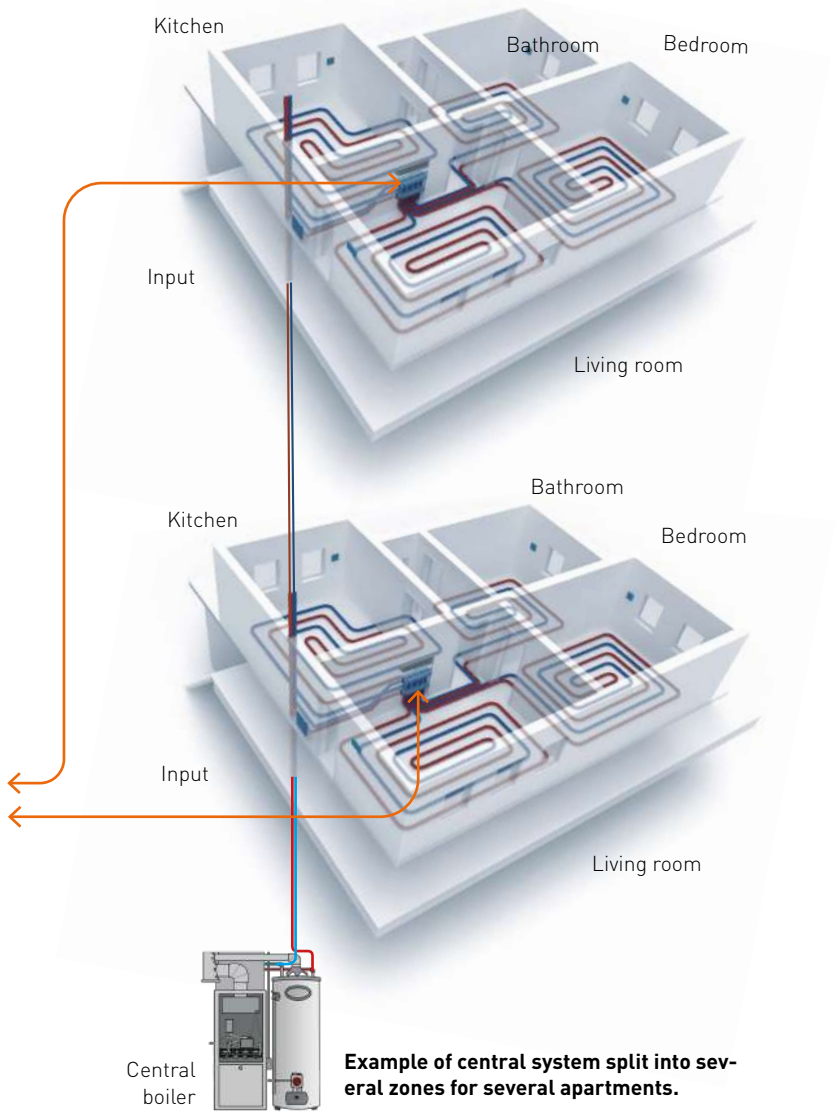
NOTE:

In central systems with each home fitted with a distribution manifold, it will be possible:

- To install at the manifold input a meter for the measurement of the quantity of heat used;

- To install solenoid valves for managing the different zones of the home.

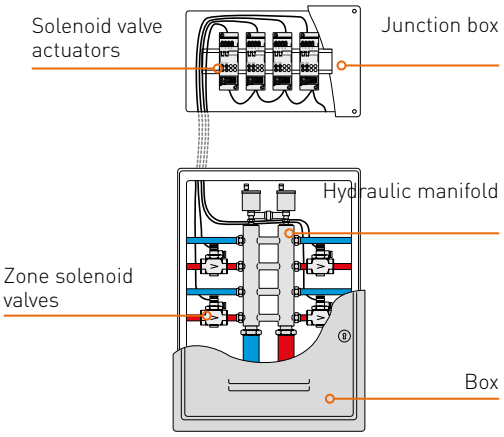




Example of central system split into several zones for several apartments.

DISPOSITION OF SOLENOID VALVES AND ACTUATORS

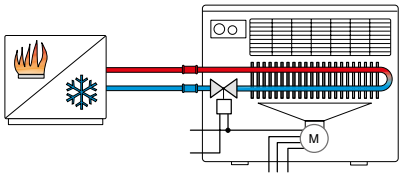
The typical setup requires all the solenoid valves to be installed on the manifold, grouped in a box in the boiler room. In this case, it is recommended to group all the actuators in a switchboard and install this near the box itself.
In homes with several floors this solution can be replicated for each floor.



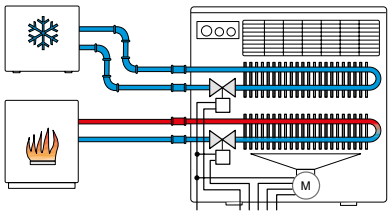
Fan-coil systems

In fan-coil systems the solenoid valve may be installed inside the fan-coil itself. In 2-tube systems there is one single solenoid valve for both the heating and cooling function. In 4-tube systems there are 2 solenoid valves, one for heating and one for cooling.

Installation of the solenoid valve in 2-tube fan-coils

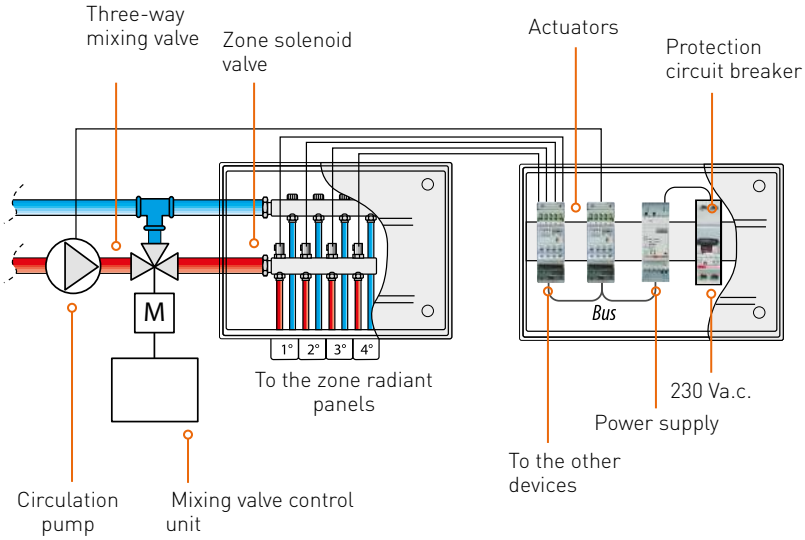


Installation of the solenoid valve in 4-tube fan-coils



Radiant panel systems

In radiant panel systems, after the pump it will be necessary to install a three-way mixing valve capable of mixing the water so that it does not exceed the maximum set temperature limit. The mixing valve is managed by the control unit supplied by the radiant panel system manufacturer.



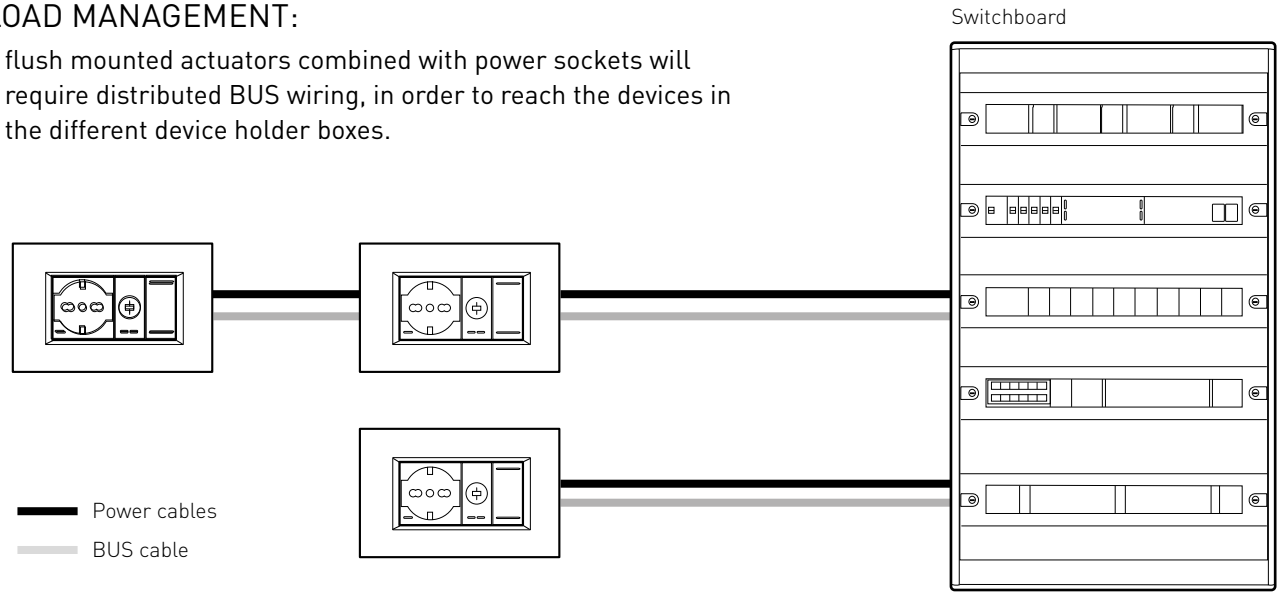
Consumption display and load control system

TYPE OF WIRING

The selection of the way the load is managed (forced reactivation in case of disconnection) and the mode for the display of the energy consumption levels define the characteristics of the electric wiring.

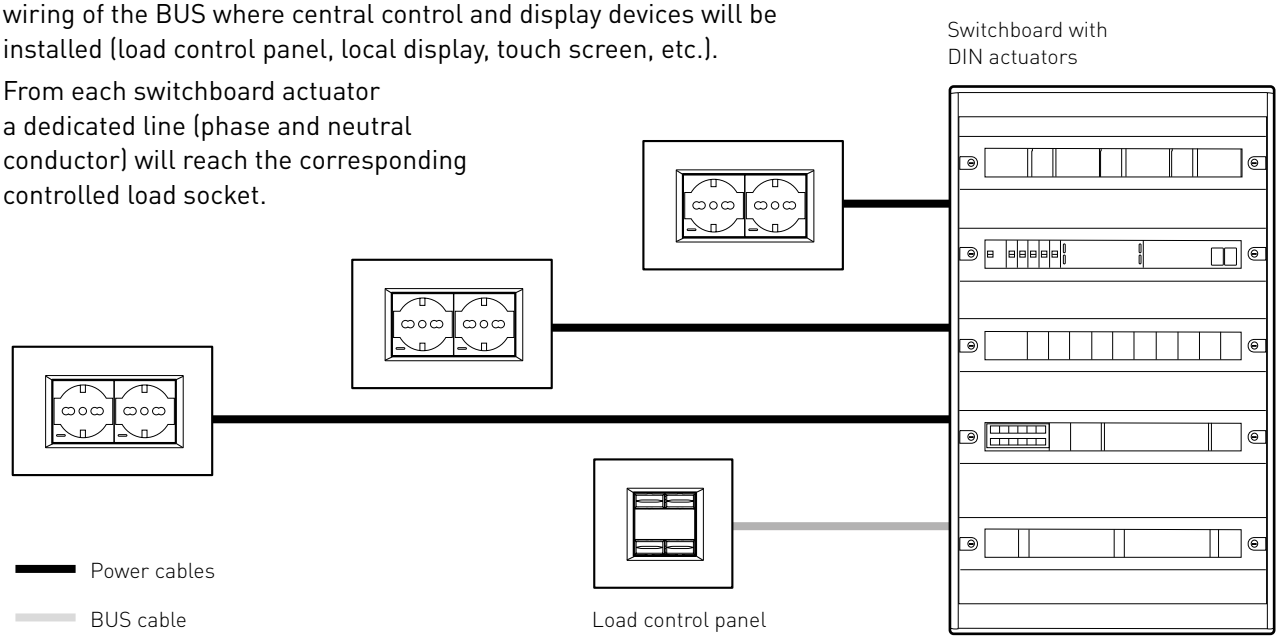
LOAD MANAGEMENT:

- flush mounted actuators combined with power sockets will require distributed BUS wiring, in order to reach the devices in the different device holder boxes.



- in case of DIN actuators grouped in the switchboard, allow for the wiring of the BUS where central control and display devices will be installed (load control panel, local display, touch screen, etc.).

  From each switchboard actuator a dedicated line (phase and neutral conductor) will reach the corresponding controlled load socket.



CONSUMED AND PRODUCED ENERGY DISPLAY

Group the DIN module meters in the switchboard. Install energy meters, with their toroids, for each electric line for which the display of consumption is required.

Selection of electrical panels and junction boxes

The integration of different **My**HOME systems inside the building brings the need to group all the active (power supply units, interfaces, telephone switchboards, etc.) or passive devices in wall or flush mounted control panels or switchboards of the Multiboard and Idroboard series.

Overview of switchboards for surface and flush mounted installation

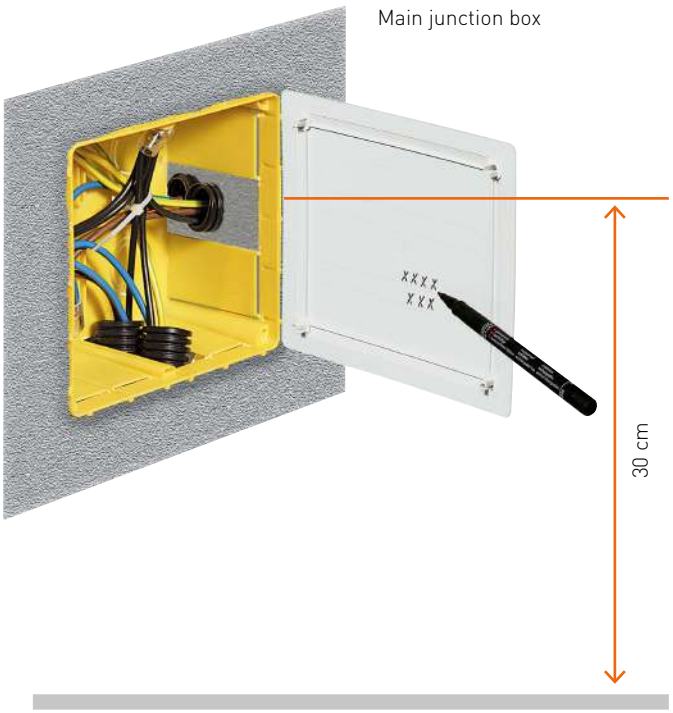
The position and the quantity of junction boxes must be assessed based on the type of building.

Apartment on 1 floor

- 1, 2 o 3 rooms + bathroom and kitchen: junction boxes are in minimum number and intended for cable joints. All DIN devices are grouped in a central position.
- More than 3 rooms + bathroom and kitchen: junction boxes are also used for housing the DIN devices of the home automation system. DIN devices are partly centralised and partly distributed.

Apartment on several floors

Allow for a junction box underneath each electrical panel, and other junction boxes around the home for housing the DIN devices of the home automation system.
DIN devices are partly centralised and partly distributed.
As an alternative, where appropriate install MyHOME FLATWALL in order to group all the DIN devices together in a central position.



NOTE: For the installation of the boxes refer to the IEC 64-50 standard.
The guide recommends a height from the floor exceeding 17.5 cm.
We recommend approximately 30 cm.

Support for design

SMART HOME CONFIGURATOR WEB APP

The Smart Home configurator is a tool that helps the installer or the final use to correctly estimate an electric system, either traditional, traditional with connected Smart devices, or **My**HOME BUS.

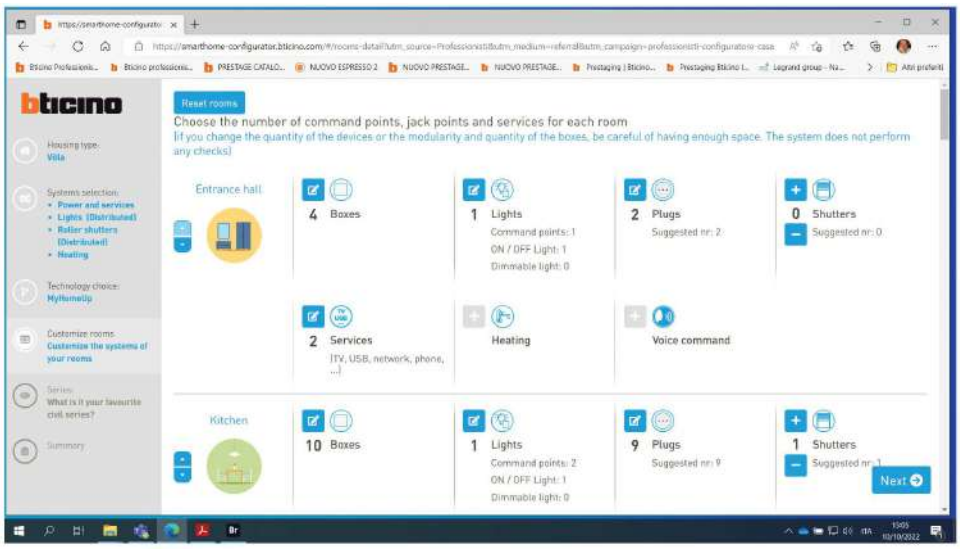
The application, available after free registration on the https://my.bticino.it website, offers a range of "standard homes" that can be modified based on specific needs. For each home, it is also possible to define the main functions based on the level from 1 to 3 for electric systems as contemplated by the CEI 64-8 standard:

- Driving force and services;
- Light;
- Shutters;
- Temperature control;
- Consumption display;
- Electrical panel;
- Protections.

After selecting the function, the application requires the definition of the system technology:

- traditional;
- traditional with connected Smart devices;
- **My**HOME BUS, and to customise the control/device points in the various finishes: Axolute, Màtix, Livinglight and Living Now.

With this simple information, the application will provide the value for the total system, or split into rooms, which can be changed at any time, and saved in the MyBTicino personal area. If the system is a **My**HOME system, also the total system current consumption will be supplied, for the appropriate checks at the design stage.



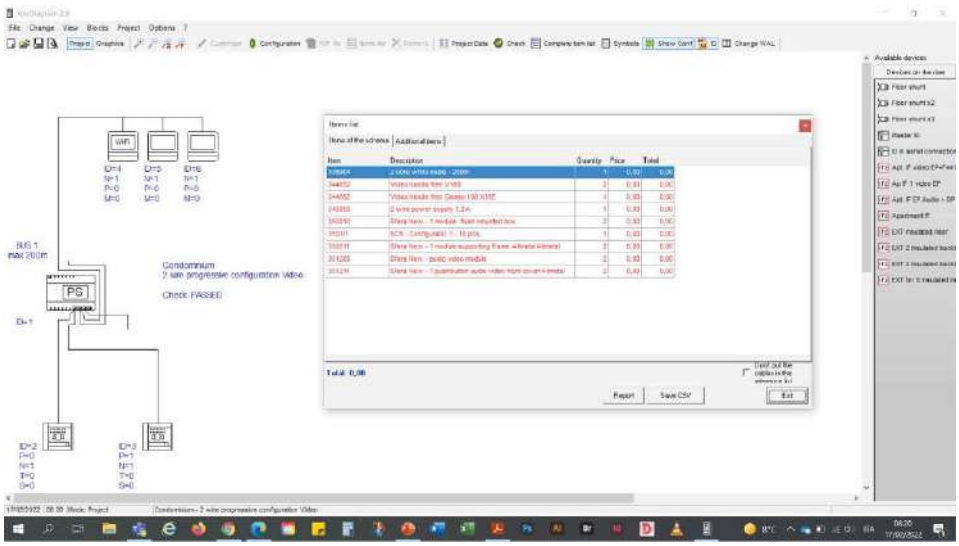
Definition of the type of building

YOUDIAGRAM SOFTWARE

YouDiagram is the software for the design and configuration of 2 wires Video door entry systems.

It allows to draw the system diagram, select the finish of the devices and their configuration.

It also quickly provides the total value of the current absorption of the system, for the appropriate design checks.



Example of a video door entry system design

NOTE: to ensure constant product improvement, this software may be subjected to revision.
We therefore recommend to consult the **bticino.com** website in the TOOLS section to obtain the most recent version of the web application.

MyHOME – Lights and automation

Light and shutter automation system

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

LIGHTING

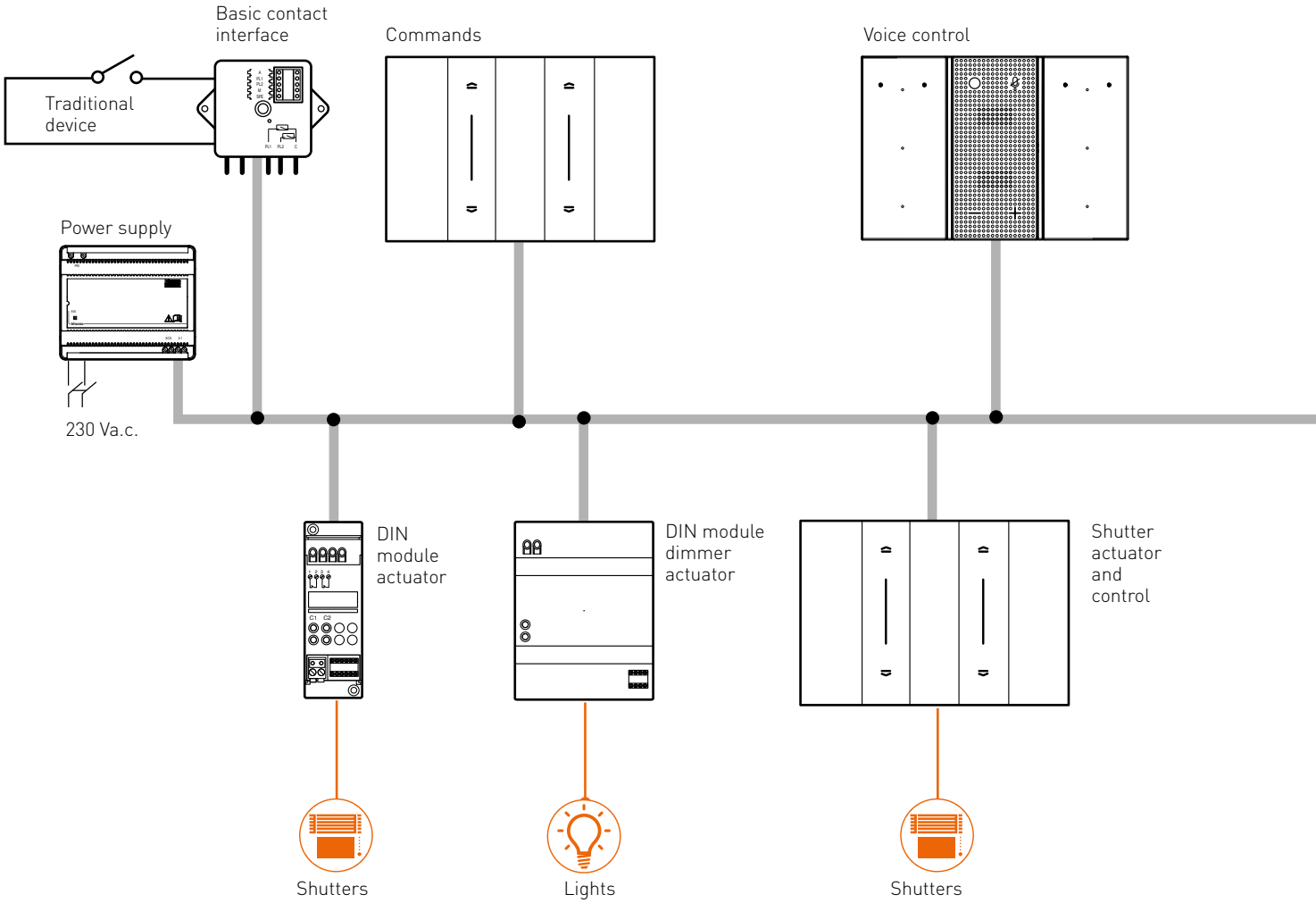
Management of traditional incandescence lamps, and LED, fluorescent and halogen lamps, with ON/OFF and DIMMER mode.

AUTOMATION OF SHUTTERS, CURTAINS AND MOTORISED DEVICES

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

LIGHT AND AUTOMATION SCENARIOS

Lights and automations can also be managed with scenarios. Depending on the configuration, they can be associated and managed: using a physical button, the touchscreen, the App, or voice commands.



It is also possible to use Classe 300EOS with Netatmo as server of the MyHome system, as an alternative to MyHOMEServer1.

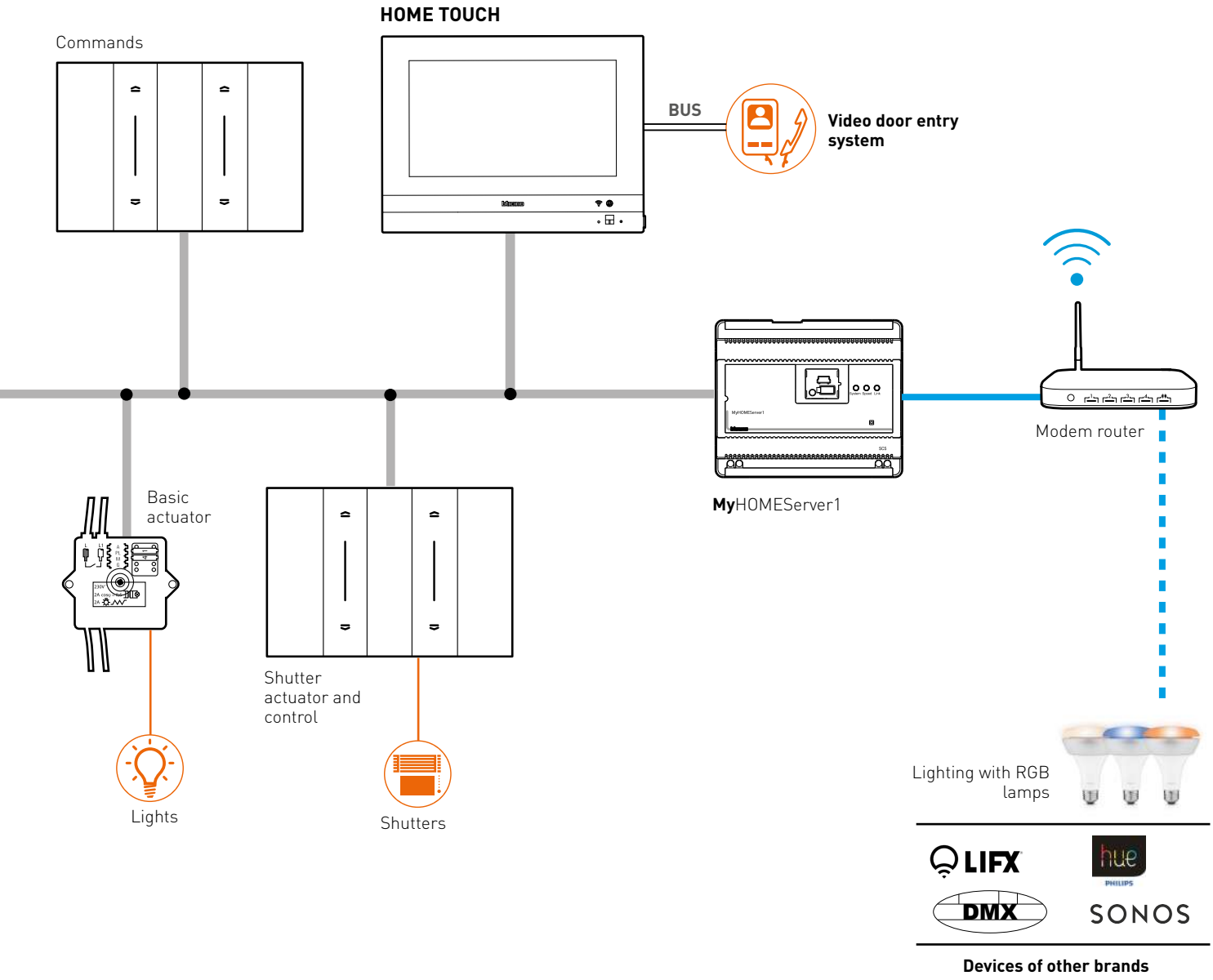
In this case it is not possible to install the Hometouch touch.

SYSTEM COMPOSITION

In the system there are two types of device:

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

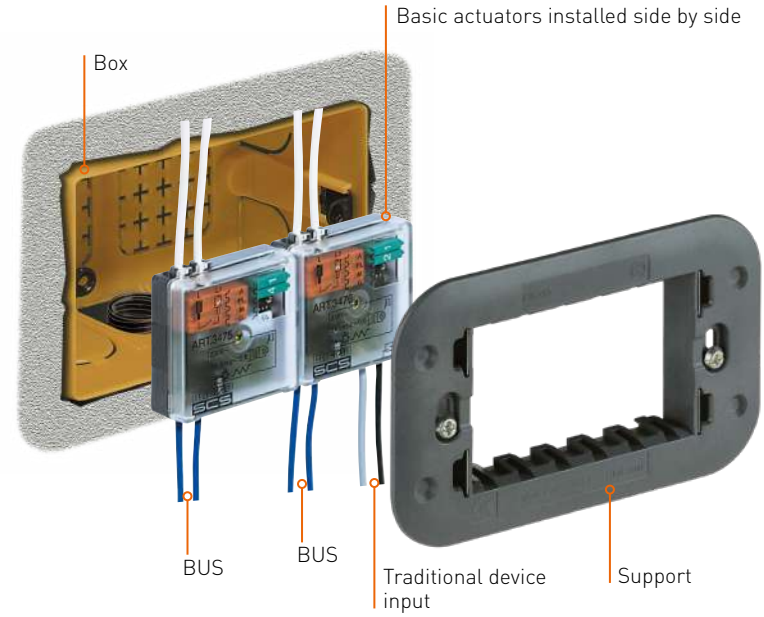
Both devices are available in the advanced digital version, with Living Now finish, or in the version with silk-screen printed key covers, and with Living Now, Axolute, Livinglight and Matix finish.
The range of control devices is completed with other capacitive sensor and IR infrared products.



Light and shutter automation system

LIGHT ACTUATORS

Basic modularity device for 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.

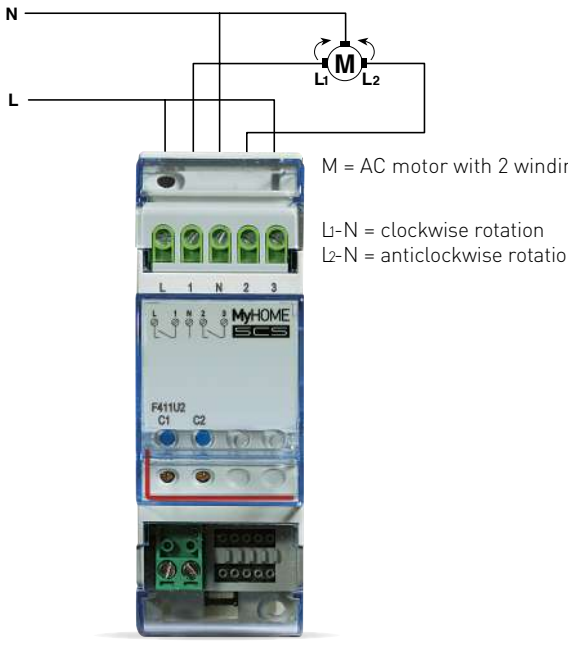
ON/OFF actuator, item BMSW1003 with "Zero Crossing" technology, 4 independent outputs for 16 A maximum loads at 230 V a.c. The device is powered directly from the 100/240 Va.c. mains 50/60 Hz.

NOTE: for the complete range see "Catalogue" section

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.

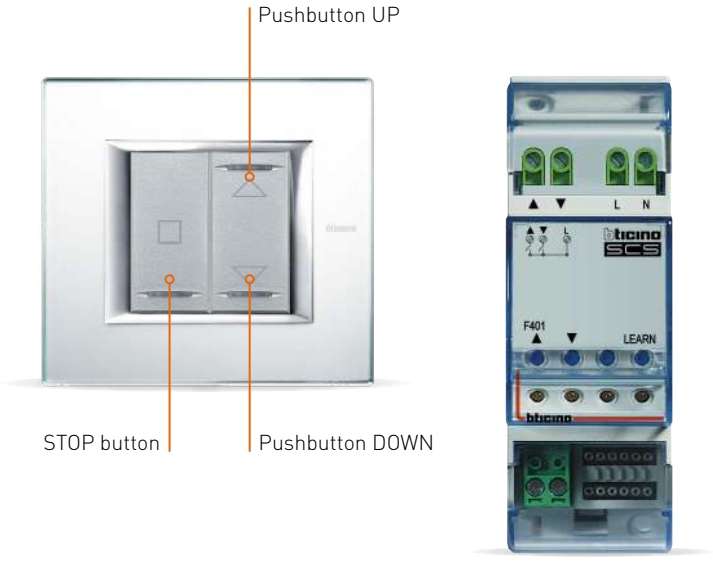


Actuator, item **F411U2** with 2 relays for ON/OFF lighting control. In the diagram, the device is wired for the control of a motor-driven shutter, and must be set in "relay interlock" mode.

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.

NOTE: for the complete range see "Catalogue" section

Light and shutter automation system

ACTUATORS AND CONTROL DEVICES TO BE COMPLETED WITH KEY COVERS

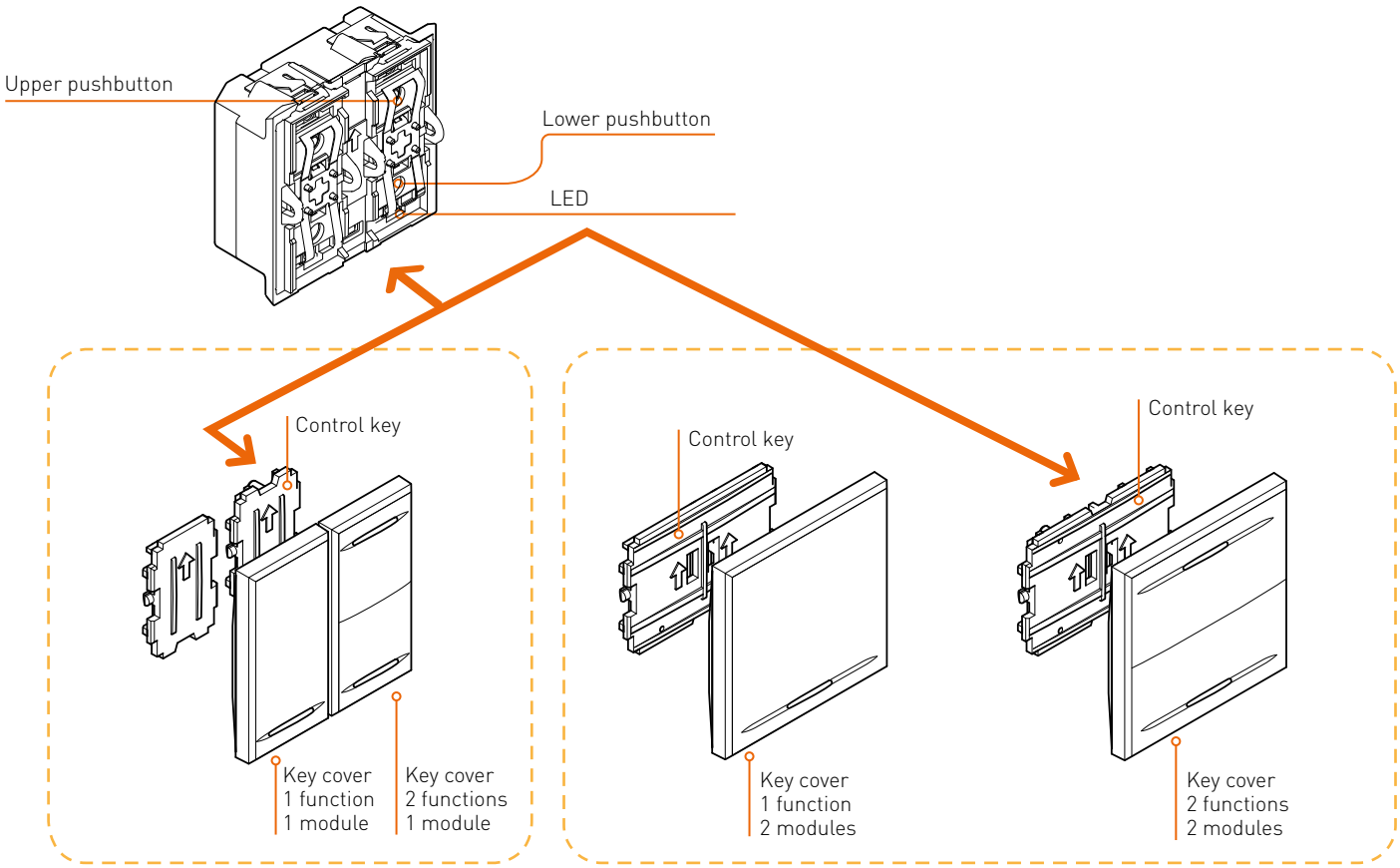
These devices are completed with their respective key covers showing the graphic representation of the function performed.

The range of flush-mounted actuators and controls includes devices for managing lights, general loads and motorised shutters.

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.

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.

OTHER CONTROL DEVICES

8-key multifunction control item H/LN4652

With 8 backlit keys, this device manages lighting, shutter automation and scenarios.

Control item **H4652**

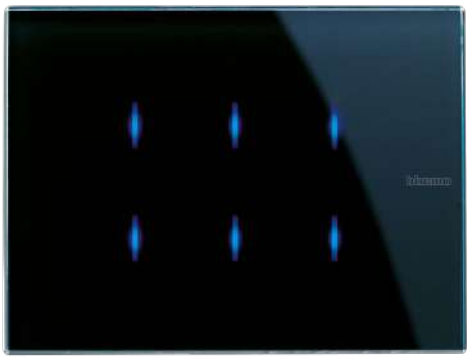
Presence and lighting sensors item ....4658 and item 4659

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**

Contact interfaces

These devices integrate the traditional control equipment (switch, pushbutton, etc.) in the MyHOME 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 basic module item **3477**

Light and shutter automation system

SELECTION OF THE BUS CONTROL DEVICE BASED ON THE FUNCTION TO MANAGE

		Basic control	Special command	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		●	●		●

ASSOCIATION OF THE DEVICES

This operation defines:
- the logic link between a control device and the corresponding actuator that must be managed;
- the operating mode (ON/OFF, UP/DOWN) based on the functions to manage.

Pairing is done during the first activation of the system and using the HOME+PROJECT App.

For the list of the devices compatible with this mode, refer to the MyHOMEServer1 and Classe 300EOS with Netatmo technical sheets.

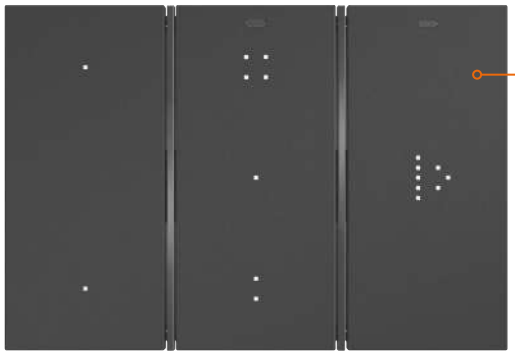
	8-Key control	Brightness and movement/ presence sensor	Nighter e Whice capacitive control	Contact interface	
	 H/LN4652	 HC/HD/HS4658 HC/HD/HS4659 L/N/NT4658 L/N/NT4659 BMSE3001 BMSE3003 048834 K4659	 HD4657M3/4 HC4657M3/4 HS4657M3/4	 F428	 3477
				●	
	●	●	●	●	
		●		●	
				●	
				●	
	●	●	●	●	

(*) for a description of these devices, see the following pages.

Light and shutter automation system

LIVING NOW DIGITAL CONTROLS

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.



Function indication LED matrix

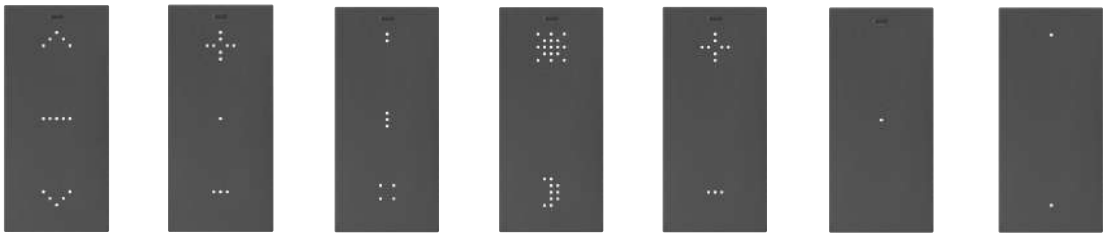
Control devices

Compared with the 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 device of reduced size that can be installed without front cover plate.
The function to be managed can be recognised by the appearance of a customisable LED graphic.

The control devices are available in two versions:

- **FULL controls**: equipped with a LED matrix with 3 indicators for the definition of a wide range of functions, such as ON/OFF and Dimmer lighting, shutter management, scenarios, coloured light, load management etc.
- **LIGHT controls**: equipped with 2 LED indicators, top 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.

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



Shutter UP/DOWN | Dimmers | Group control | Night and day scenario | Colored light | Management of one light | Management of two lights

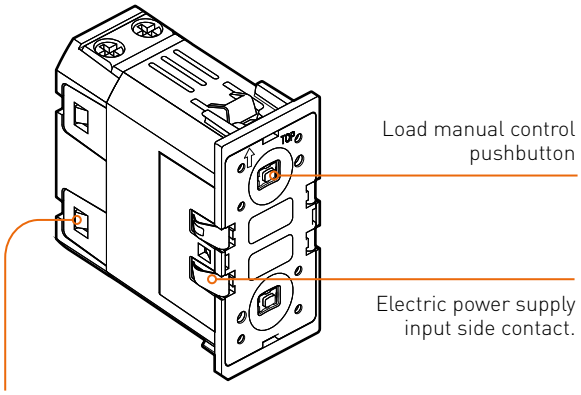
Actuator devices

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

- item K8002L for the ON/OFF control of two lamps;
- item K8002S for the control of a shutter electrical motor.

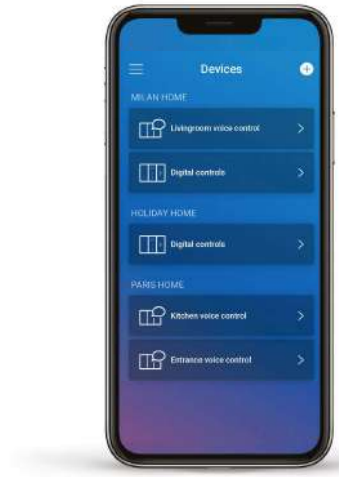
Both devices are flush mounted using the K470... support and are equipped with side contacts for the 27 Vd.c. electric power supply input directly from the connection module, or through a second actuator.

The association with the corresponding digital control requires the HOME+PROJECT application.



ALLOCATION OF THE FUNCTIONS TO MANAGE AND CONFIGURATION OF ICONS

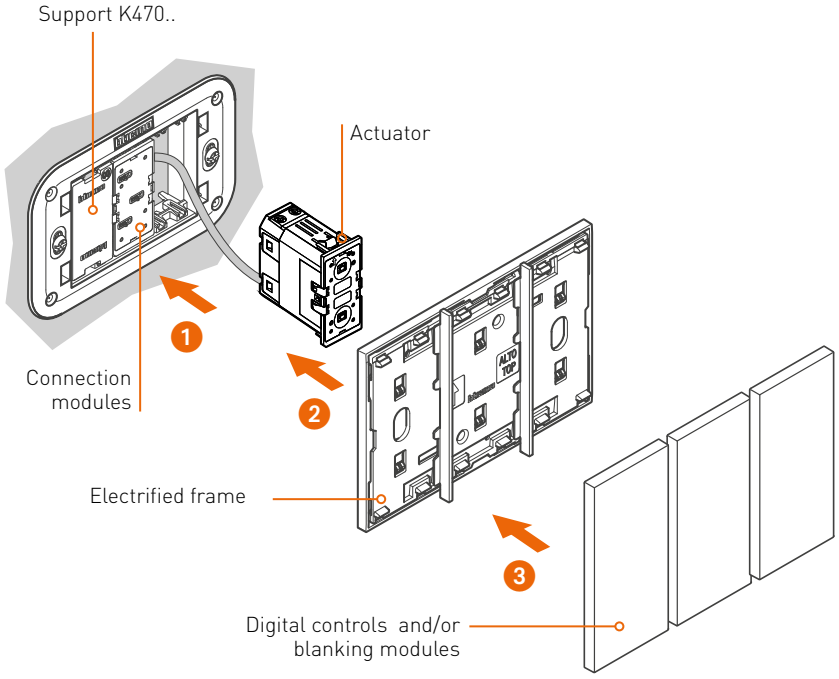
Like all the **My**HOME devices, also with digital control devices the definition of the functions to manage and the association with the respective actuator require the HOME+PROJECT App, while the graphic style of the LED icons can also be set by the user with the Digital Controls App.

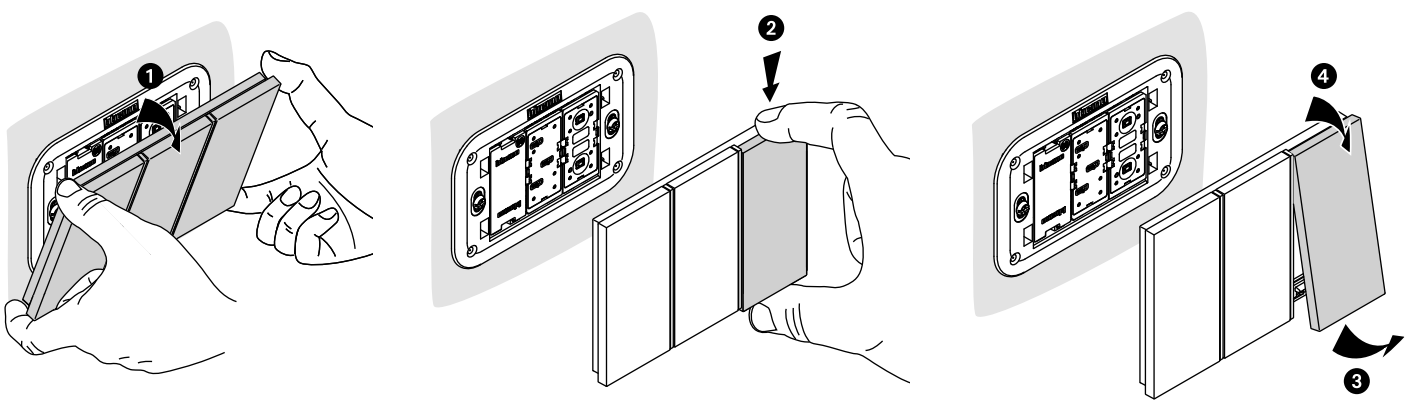


Digital Controls

INSTALLATION OF THE DIGITAL DEVICES

Digital devices are installed in their respective flush mounted box and support, item K470..., using an appropriate "frame" equipped with 27 Vd.c. power supply contacts of the control devices.
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 screw	 **K4704** with screw
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			
			
			

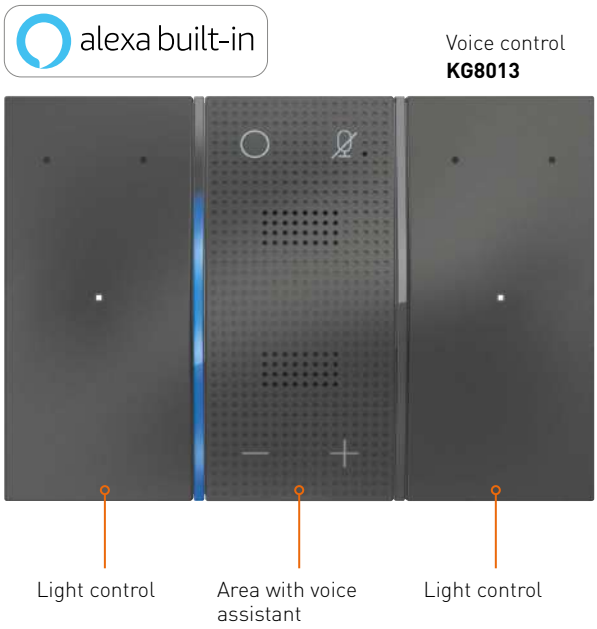
WARNING FOR THE SELECTION OF THE DEVICES:

1. * 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 control, item ....8013 (see the MyHOME 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.

LIVING NOW DIGITAL CONTROL DEVICES WITH AMAZON ALEXA VOICE ASSISTANT

The "Voice control", item KG/KS/KM8013, brings together the functions of two LIGHT digital controls, with a built-in voice assistant exploiting the Amazon Alexa technology.
Using this device the installer can offer to the customer an added value service, setting "by default" each room of the home for "voice" control of the MyHOME functions and to request any information, news, weather conditions, timetables, and so on, using the Amazon Alexa platform.

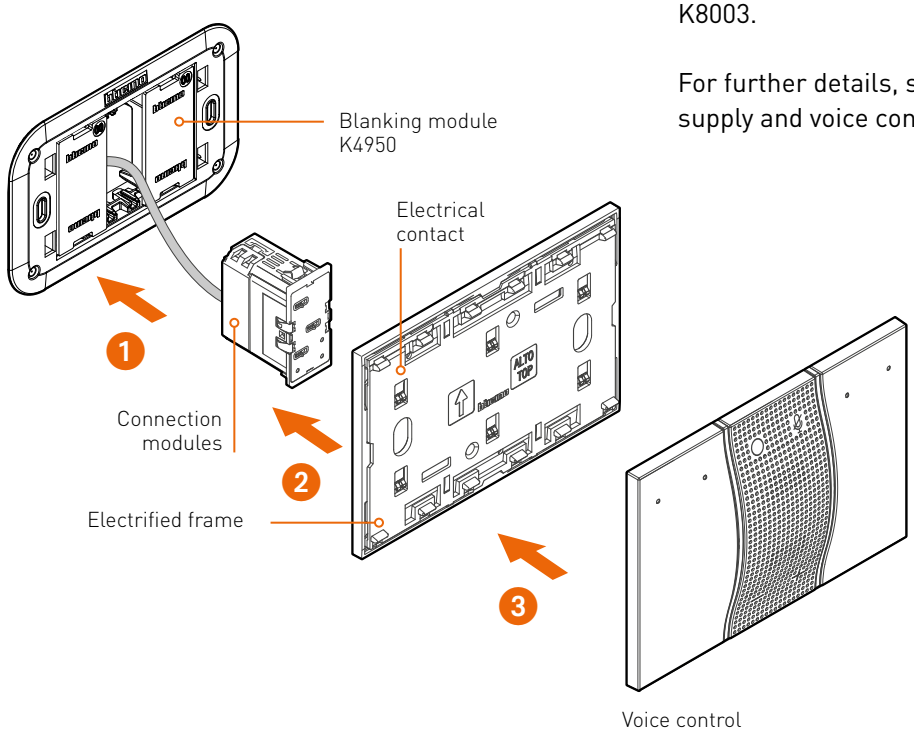


Installation features

The voice control is installed in the flush mounted box and support, item K470... using the "electrified frame" item 8103/P1 or item 8104/P1.

Using a special connection module, item K8001, a 27V d.c. power supply is provided from the BUS to the electrified frame and from there to the voice control.
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.



Light and shutter automation system

Due to the high flexibility of use of the control devices and actuators, it is possible to create different systems for every need. On these pages are some diagrams for the most typical and frequently used applications.

DIAGRAM 1

SWITCHING ON AND OFF OF 2 LAMPS WITH 3 LIGHT POINTS WITH GENERAL ON/OFF CONTROL

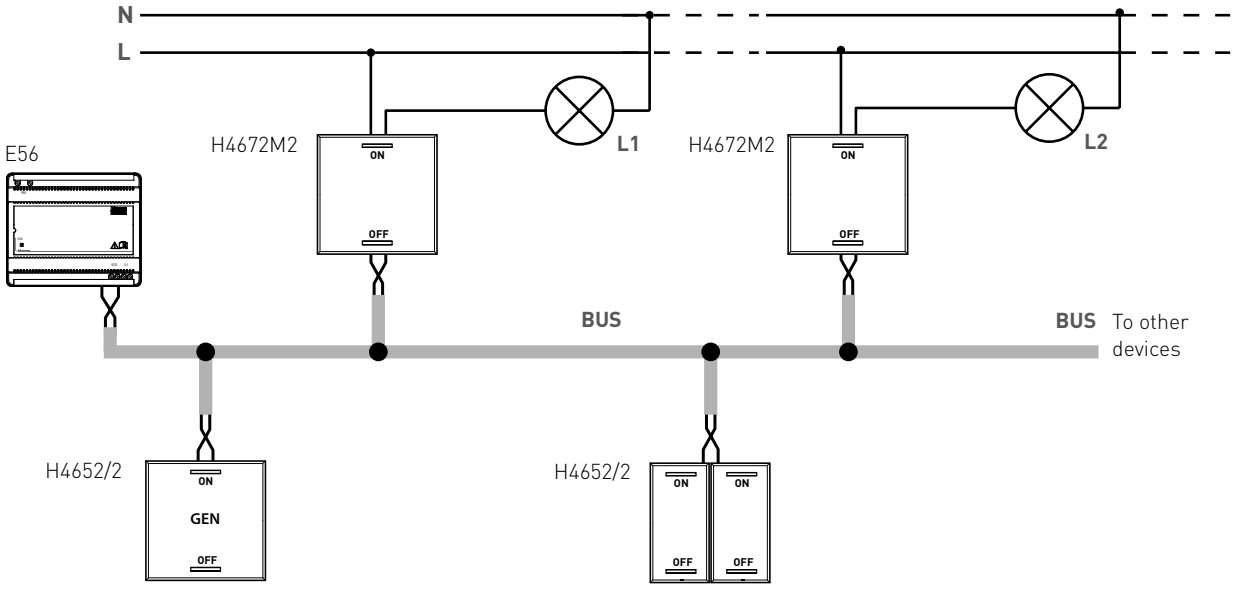
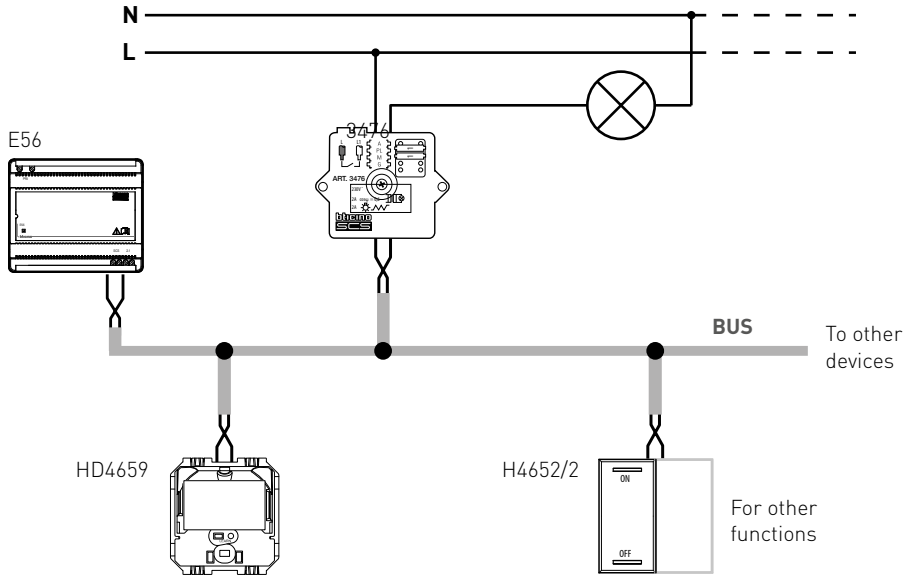


DIAGRAM 2

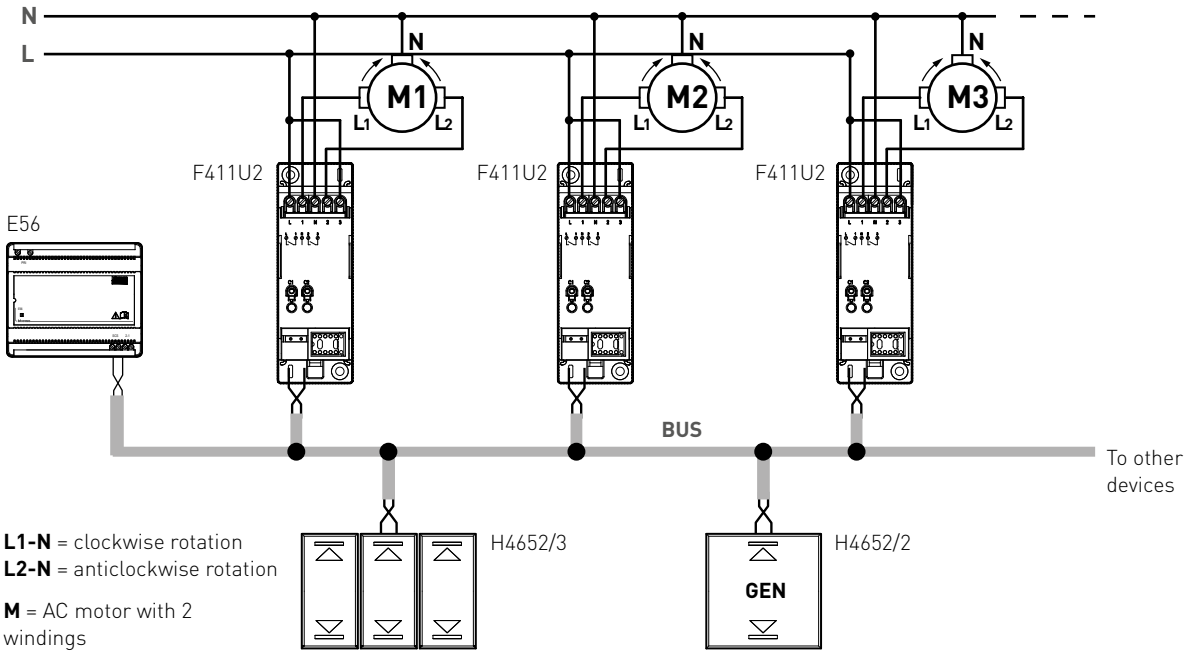
AUTOMATIC SWITCHING ON OF THE LIGHT WITH PASSIVE INFRARED CEILING SENSOR



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). When a user switches the light off manually with a command, this disables the motion sensor when no movement is detected for a time indicated by T.

DIAGRAM 3

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

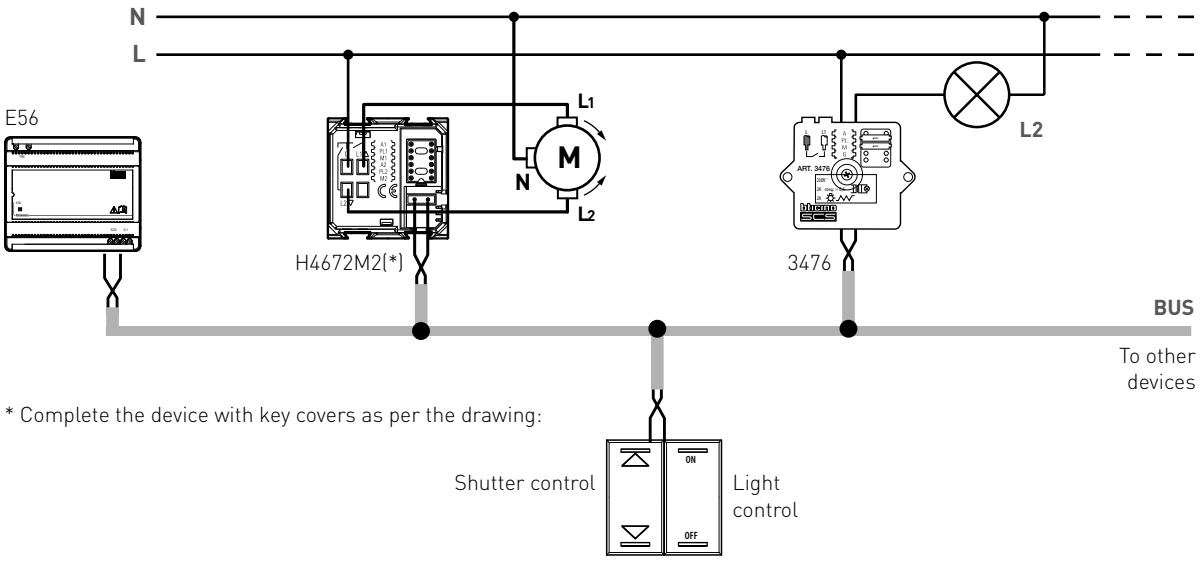


L1-N = clockwise rotation
L2-N = anticlockwise rotation

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"

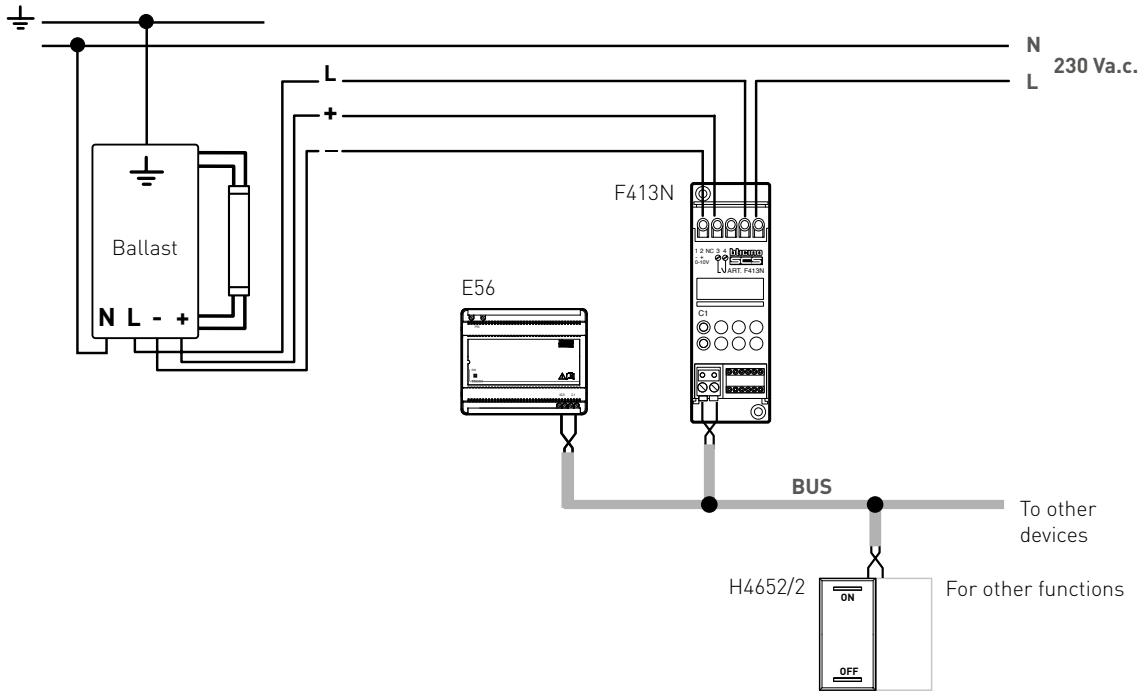


DIAGRAM 6

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

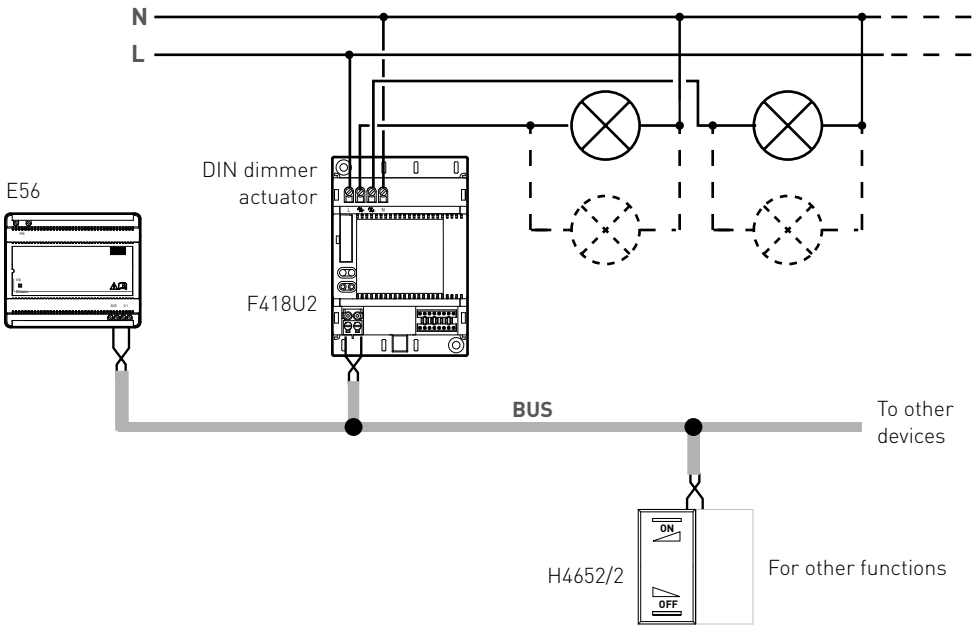


DIAGRAM 7

LIGHTING SYSTEM WITH PRESENCE AND LIGHTING SENSORS - LARGE MEETING ROOM

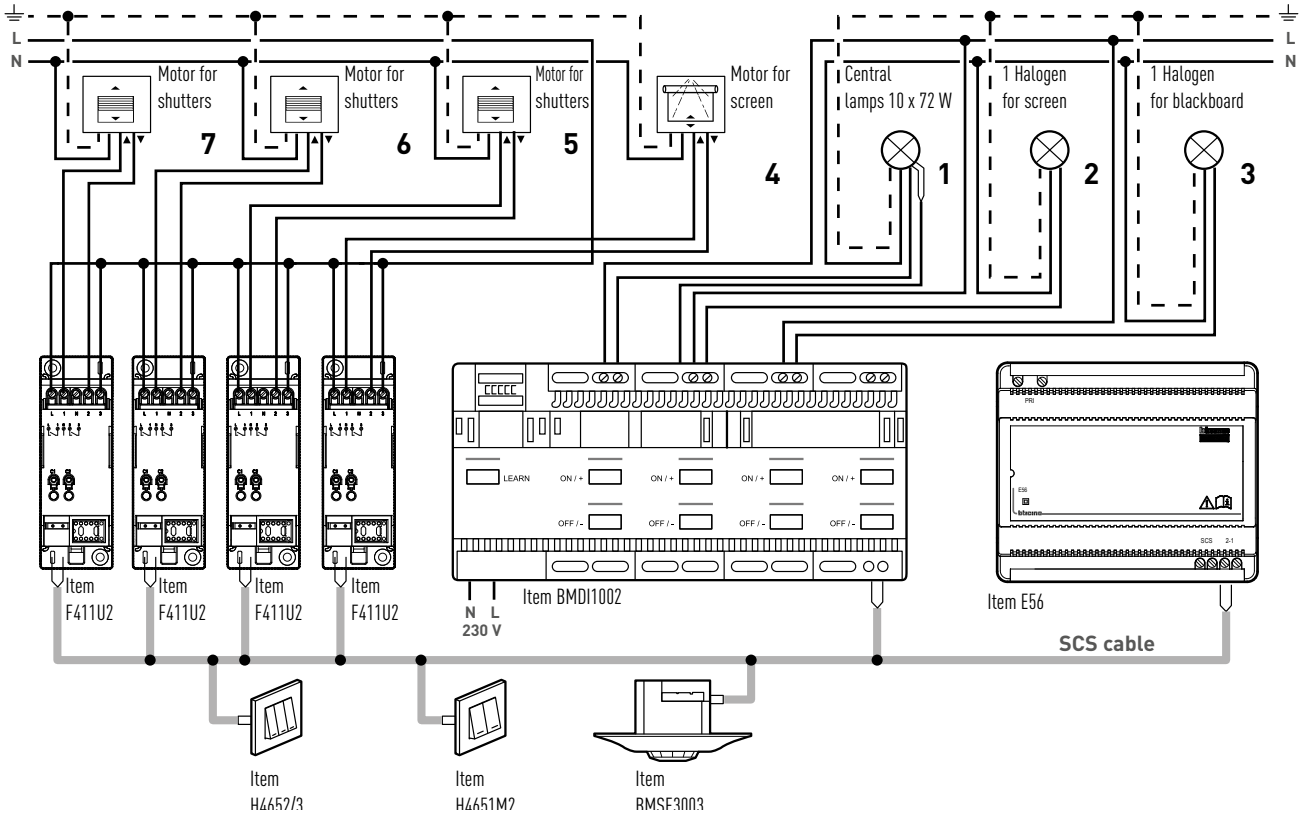
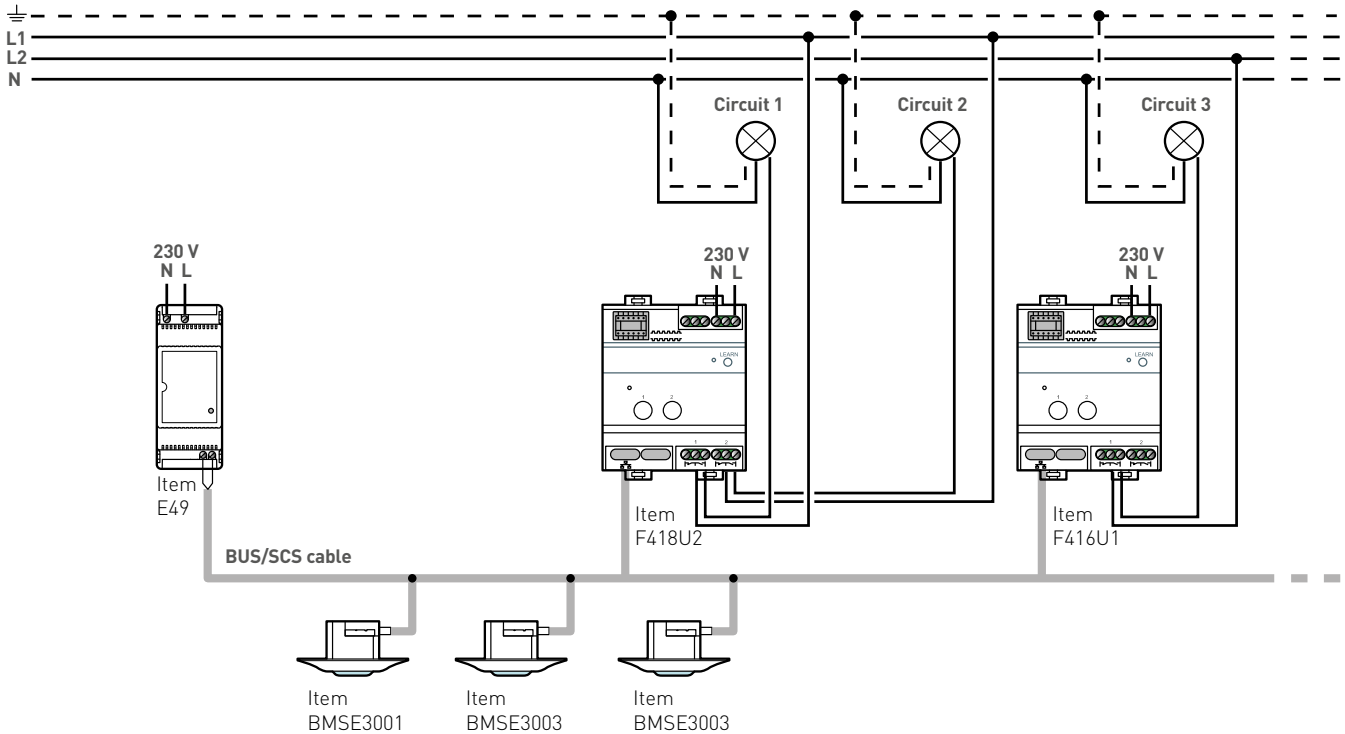
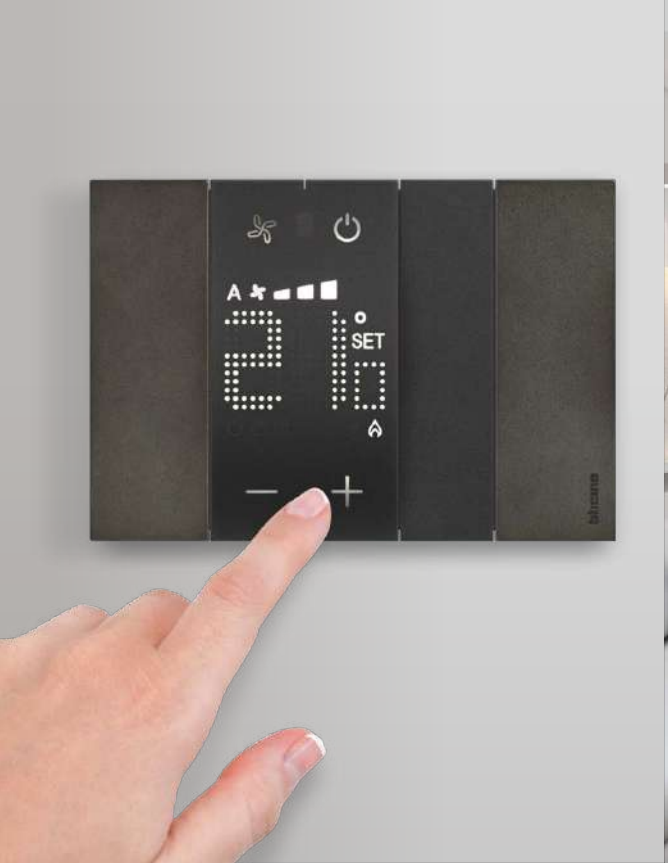


DIAGRAM 8

LIGHTING SYSTEM WITH PRESENCE AND LIGHTING SENSORS - HALL AND RECEPTION





MyHOME – Temperature control

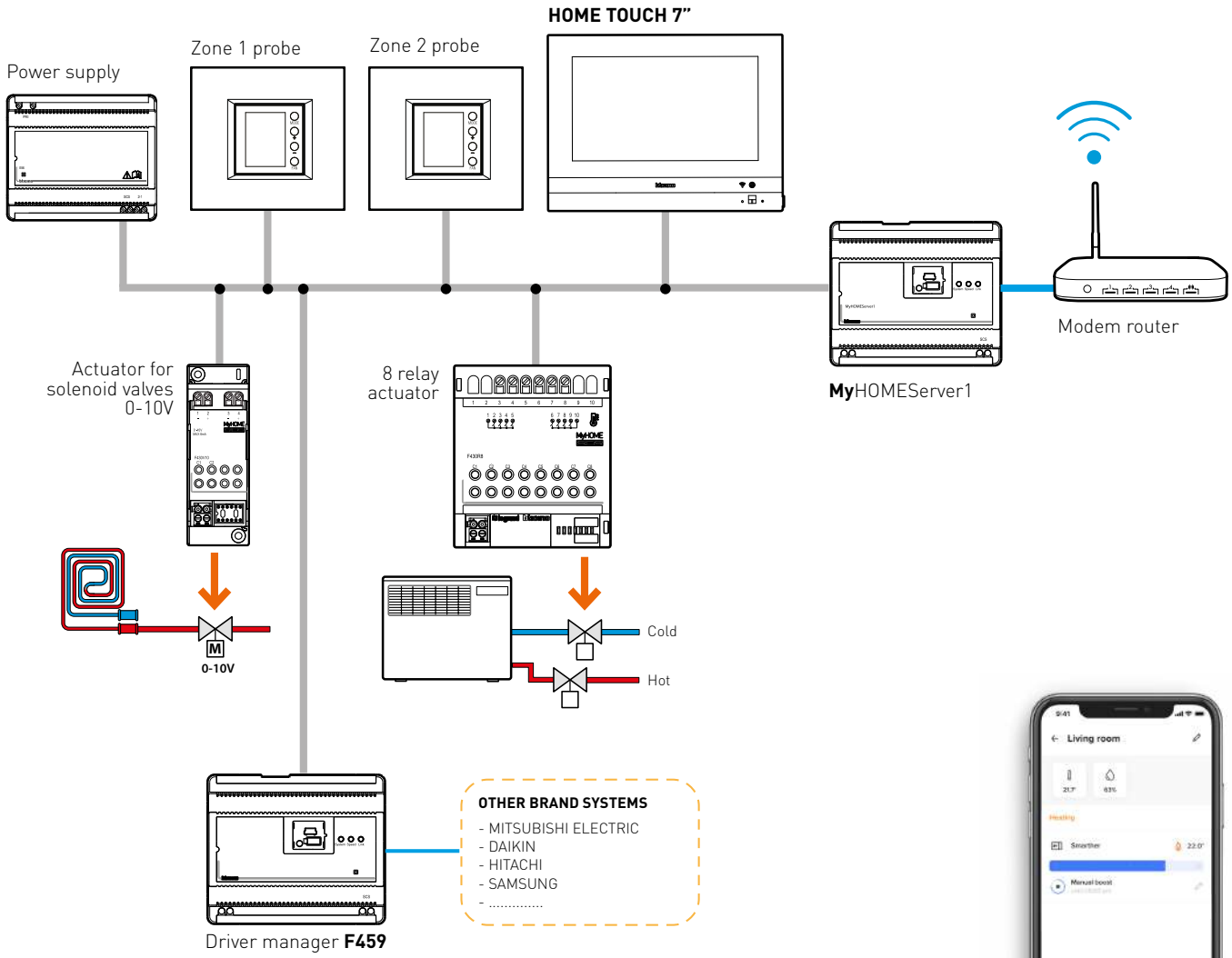
Temperature control

The MyHOME temperature control system allows to define programs for the activation of the heating system based on custom profiles.
The system is made up of:

- Probes with and without display;
- Actuator devices to manage the solenoid valves.

With the installation of the MyHOMEServer1 gateway, the system can also be managed using the HOMETOUCH touch screen, or the Smartphone with the HOME+CONTROL app.

As an alternative to MyHOMEServer1, it is possible to use the Classe 300EOS internal unit of the video door entry system; by also integrating the Driver Manager device, item F459, it will be possible to manage third-party heating and cooling systems.



HOME + CONTROL App

It is also possible to use Classe 300EOS with Netatmo as server of the MyHome system, as an alternative to MyHOMEServer1.
In this case it is not possible to install the Hometouch touch.

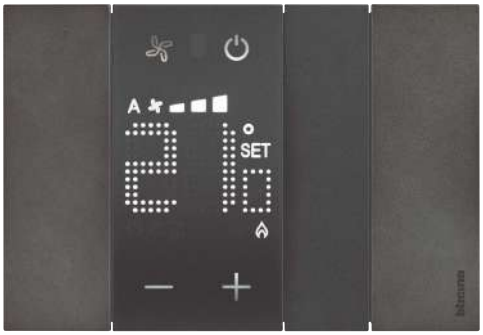
Temperature control

THE PROBES

Probe with display

Fitted with front controls for the selection of the desired temperature and of the operating mode: automatic, manual, preset Eco, comfort, Antifreeze-thermal protection and OFF.
In systems with fan-coil, it is also possible to set the fan speed, and it can be used in mixed systems with both heating and cooling functions.
It can be connected to a NC/NO window contact, useful for changing the operating modes based on the status (open or closed) of the window itself.

It is possible to automatically switch OFF the heating if a window is opened in a room managed by the probe. This condition, notified by the opening of the NC type contact, is detected by the probe, which transfers the information to the temperature control system, for the appropriate actions. Living Now probes, item KW/KG/KM4691, are internally equipped with a humidity probe, the measured value of which can be used for advanced applications possible thanks to the integration with third-party systems through Driver manager, item F459.



Probe item KG4691

Basic probe

Device for the installation of junction boxes, to be combined with an external temperature sensor, item 3457, for the measurement of the room temperature in the 0 - 40 °C range.
In addition to the SCS clamp used for connection to the SCS bus, and the PROBE clamp for the connection of the external temperature sensor, the probe also has a REMOTE clamp for connection to a remote contact

for different applications (e.g.s to change the operating mode when a window is open, and to change the operating function...).
The probe is also equipped with a mechanical pushbutton for the configuration of the device and 2 LEDs, one red and one green, which provide information on the correct installation and configuration of the device, and the status of the temperature control zone.

Basic probe item 3454

Probe without display

Flush mounted probe to measure the temperature between 3 – 40°C. The device has no temperature adjustment knobs, which makes it suitable for installation in public places /small service sector.

It can be used with slave probe configuration for operation in conjunction with the probe with display, item .....4691, or as master probe.

SLAVE probe item HC4693

THE ACTUATORS

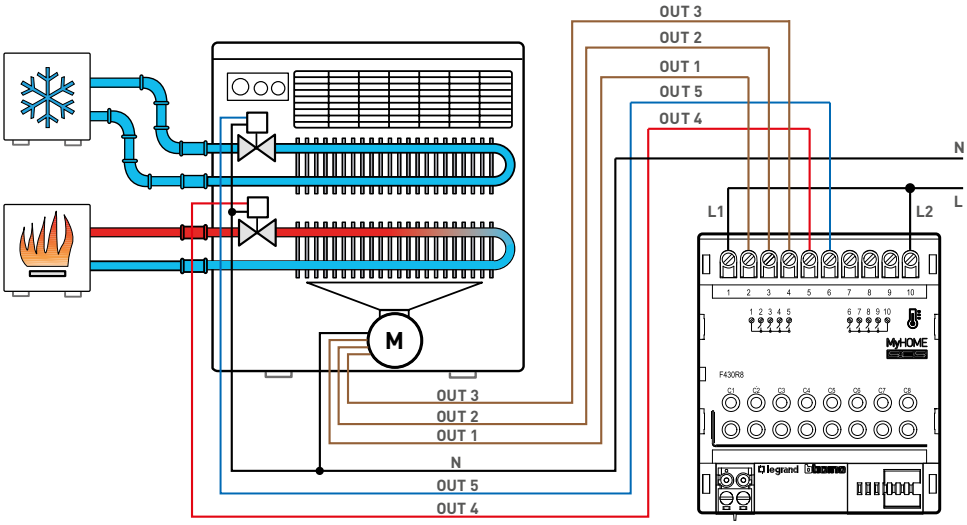
Manufactured for installation in DIN switchboards, these devices control the solenoid valves and the pumps of the temperature control system.

The types are below:

Actuator
with 2 contacts
item F430/2

With NA contact relay output,

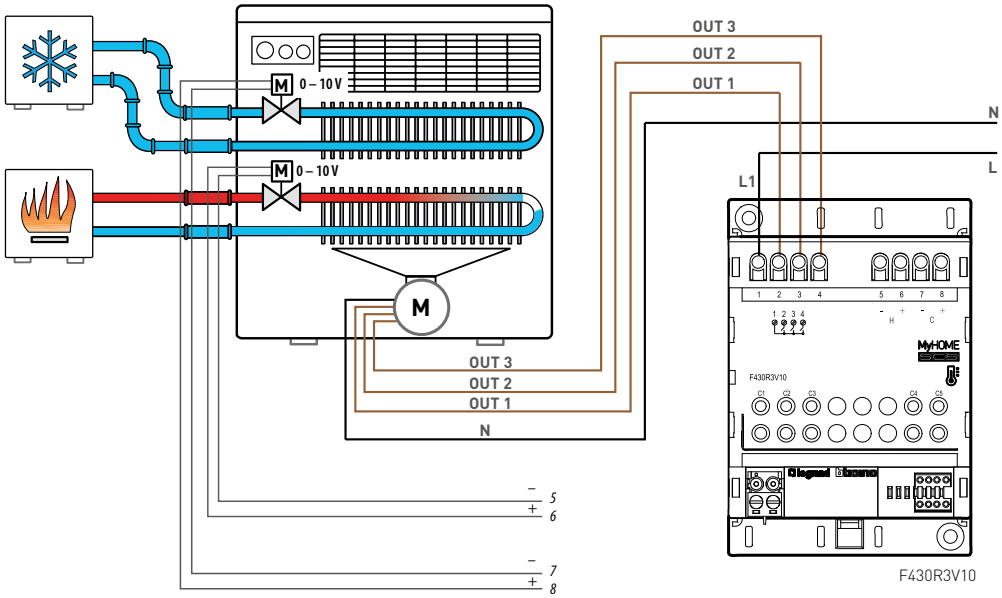
item F430/2 (2 contacts), item F430/4 (4 contacts) and item F430R8 (8 contacts), for the control of ON/OFF valves and pumps. If the system includes fan-coils, the fan speed can also be adjusted.



Use of the F430/8 actuator, for the control of a 4-tube and 3-speed fan-coil.

With output voltage 0-10 V

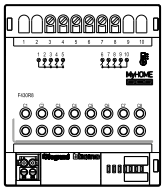
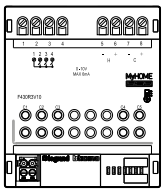
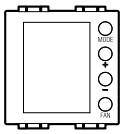
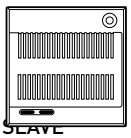
item F430R3V10 (also with 3 NC contacts) and item F430V10, for the control of proportional solenoid valves, type 0-10.



Use of the F430R3V10 actuator for the control of one 4-tube fan-coil with 0-10 3-speed valves.

Temperature control

SELECTION OF THE DEVICES BASED ON THE SYSTEM TO CONTROL

		Actuators					Probes	
		 F430/2	 F430/4	 F430R8	 F430R3V10	 F430V10	 H4691 LN4691 KW4691 KG4691 KM4691  3454	 SLAVE PROBE HC/HS4693 L/N/NT4693
VALVES	ON/OFF	●	●	●			●	●
	OPEN/CLOSE	●	●	●			●	●
	3 POINTS			●			●	
	0-10V					●	●	
FAN-COIL	2 ON/OFF TUBES		●	●			●	● 1)
	4 ON/OFF TUBES			●			●	● 1)
	2 TUBES 3 POINTS			●			●	
	4 TUBES 3 POINTS			●			●	
	2/4 TUBES 0-10V				●		●	
ELECTRICAL HEATING		●	●	●			●	●
CLIMAVENETA							●	● 1)
MIXED ON/OFF + FAN-COIL								

Note 1): Changing the speed using the probes is not possible

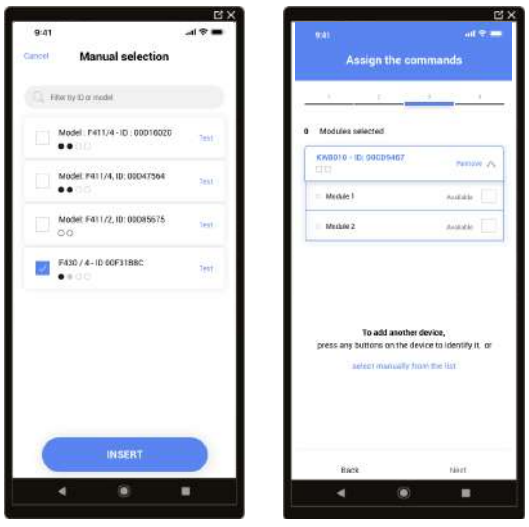
ASSOCIATION OF THE DEVICES

This operation defines:

- the logic link between a probe and the corresponding actuator that must be managed;
- the operating mode of probes and actuators based on the type of temperature control system to manage.

As for the light and shutter automation system, this function is carried out when putting the system into operation and using the HOME+PROJECT app.

For the list of the devices compatible with this mode, refer to the MyHOMEServer1 and Classe 300EOS with Netatmo technical sheets.

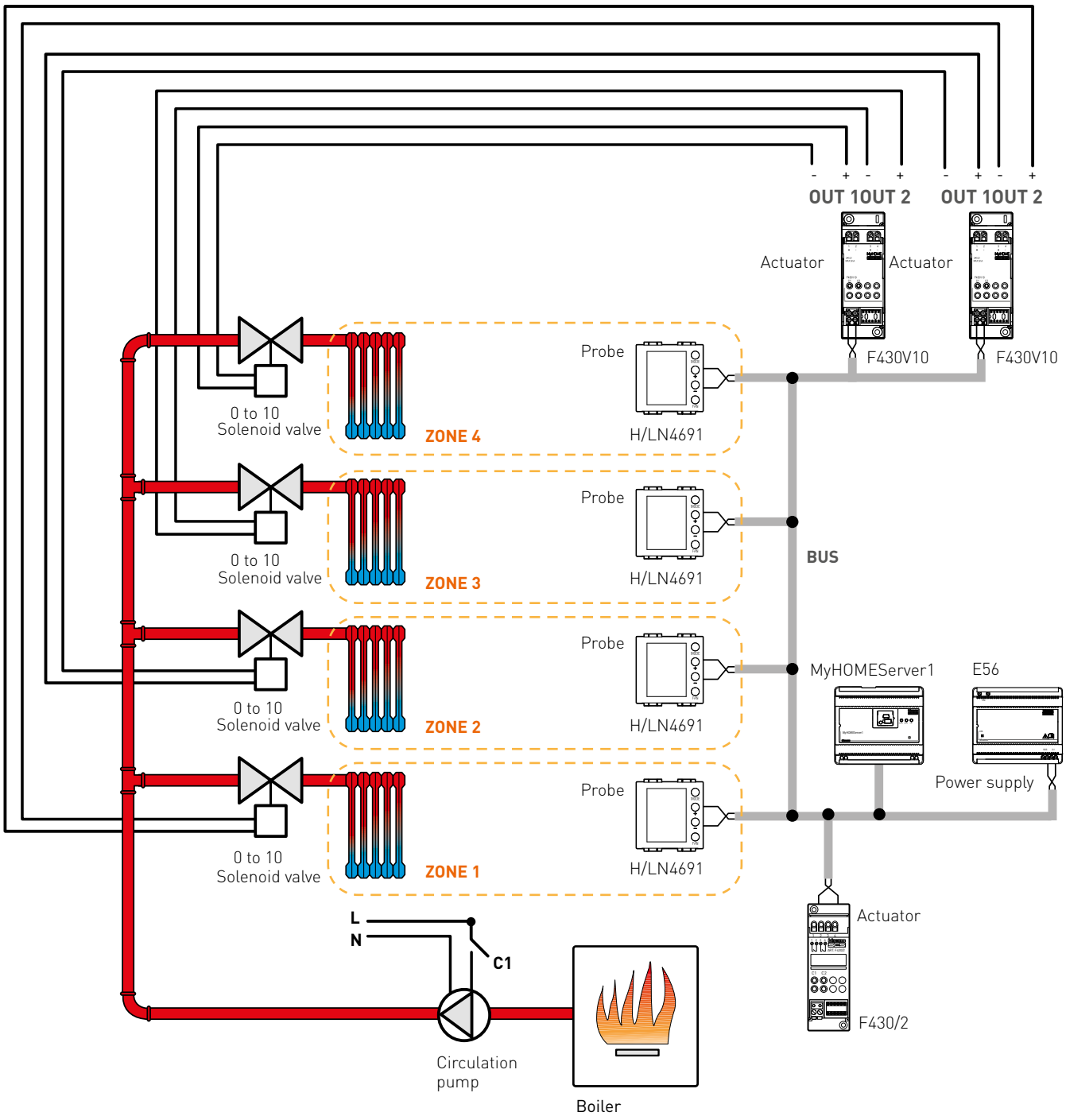


Association of a thermostat to the corresponding actuator

Due to the high flexibility of use of the devices, it is possible to create different systems for every need. On these pages are some diagrams for the most typical and frequently used applications.

DIAGRAM 1

4 ZONE VILLA - HEATING BY MEANS OF RADIATOR WITH 0-10 V SOLENOID VALVES



WARNING: The diagrams, showing Axolute and Livinglight, also apply, when possible, to **My**HOME products, Living Now series. For further information, see the Technical sheets of every item available in the bticino.professionisti.it site.

Temperature control

DIAGRAM 2

4 ZONE VILLA - HEATING BY MEANS OF RADIATORS WITH ON/OFF SOLENOID VALVES

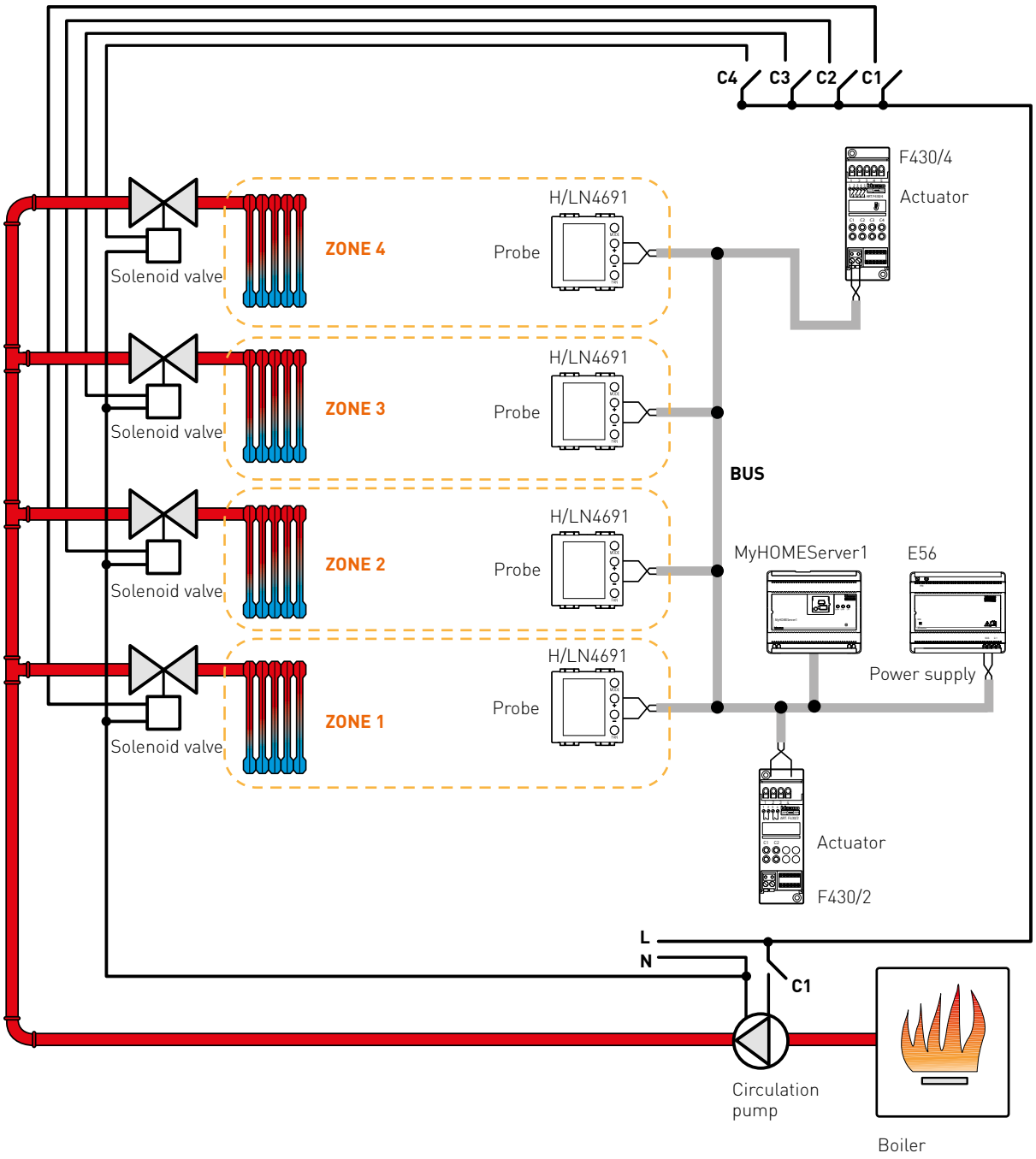
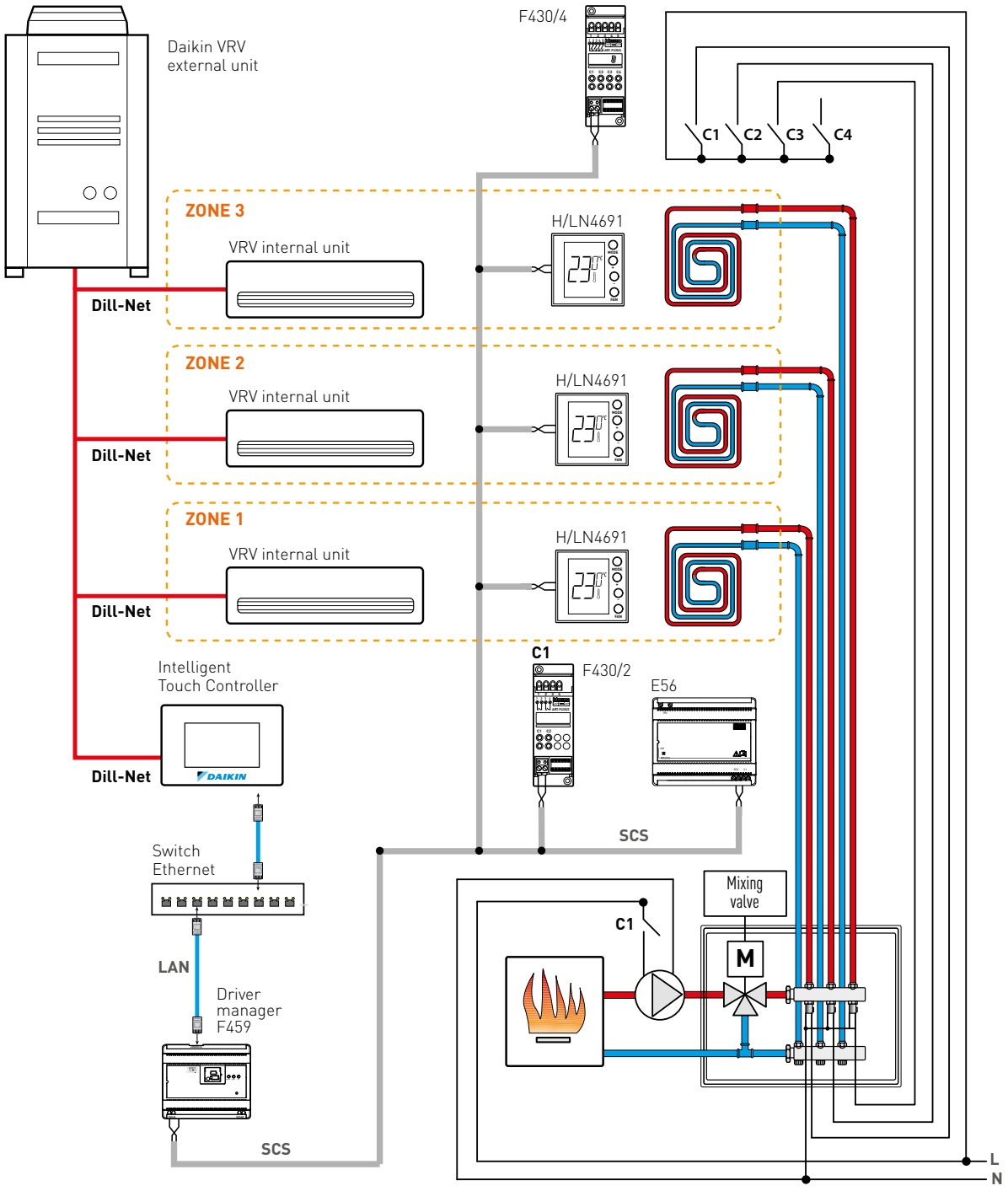


DIAGRAM 3

3-ZONE VILLA - INTEGRATION OF THE TEMPERATURE CONTROL SYSTEM WITH RADIANT PANEL HEATING SYSTEMS AND DAIKIN VRV COOLING (IP PROTOCOL)

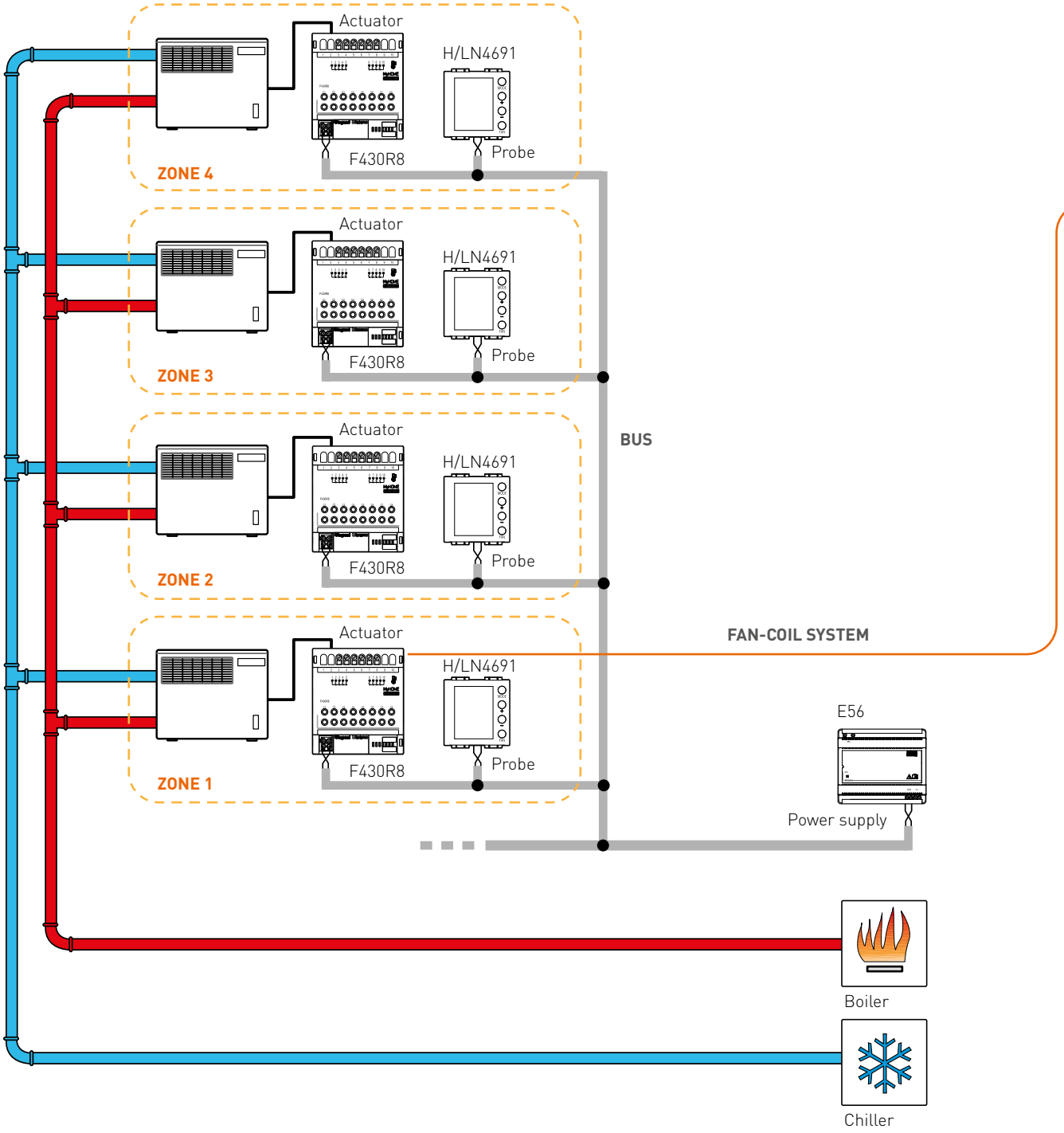


In these systems the Daikin local controllers must not be installed.

Temperature control

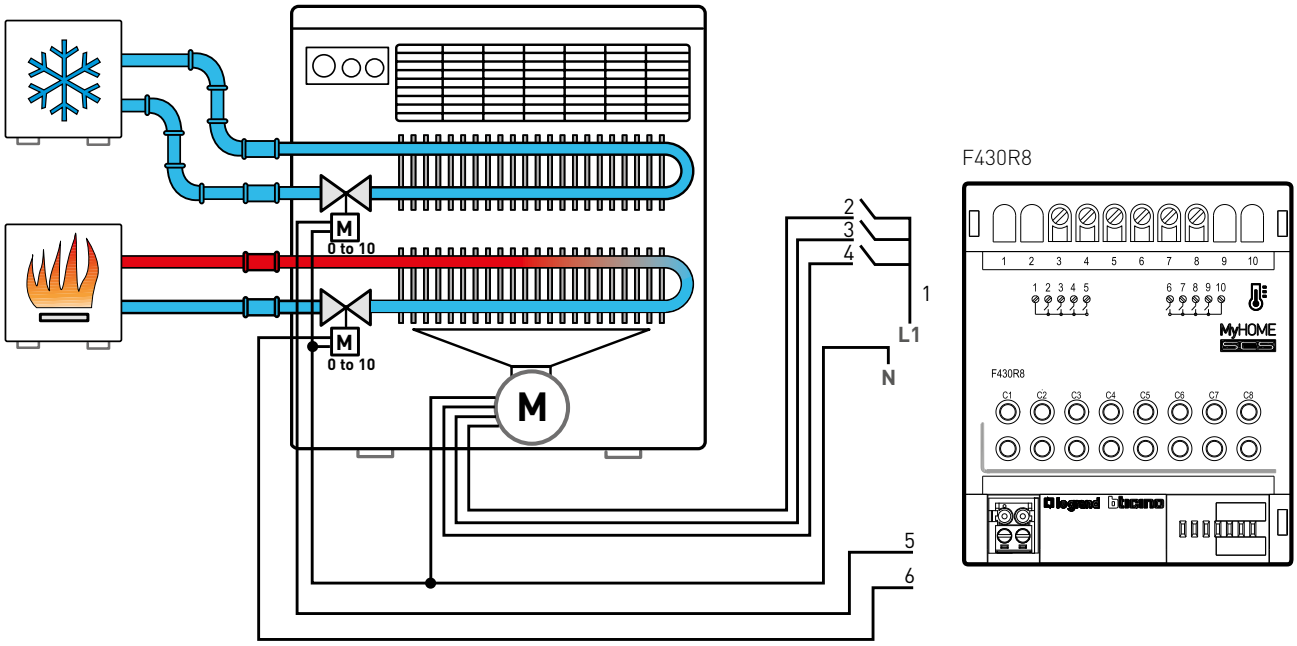
DIAGRAM 4

4-ZONE VILLA - HEATING AND COOLING WITH 4-TUBE FAN-COILS, WITH 0-10V SOLENOID VALVES OR WITH 0-10 SPEED ADJUSTMENT.

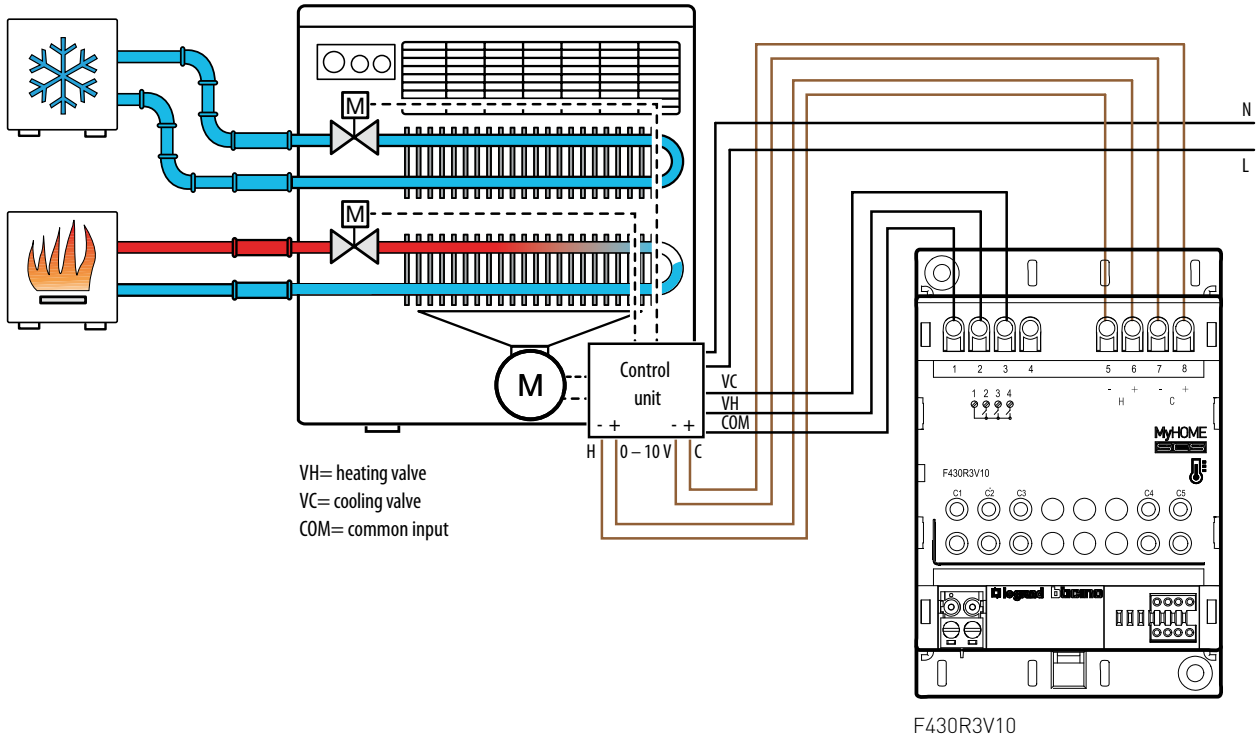


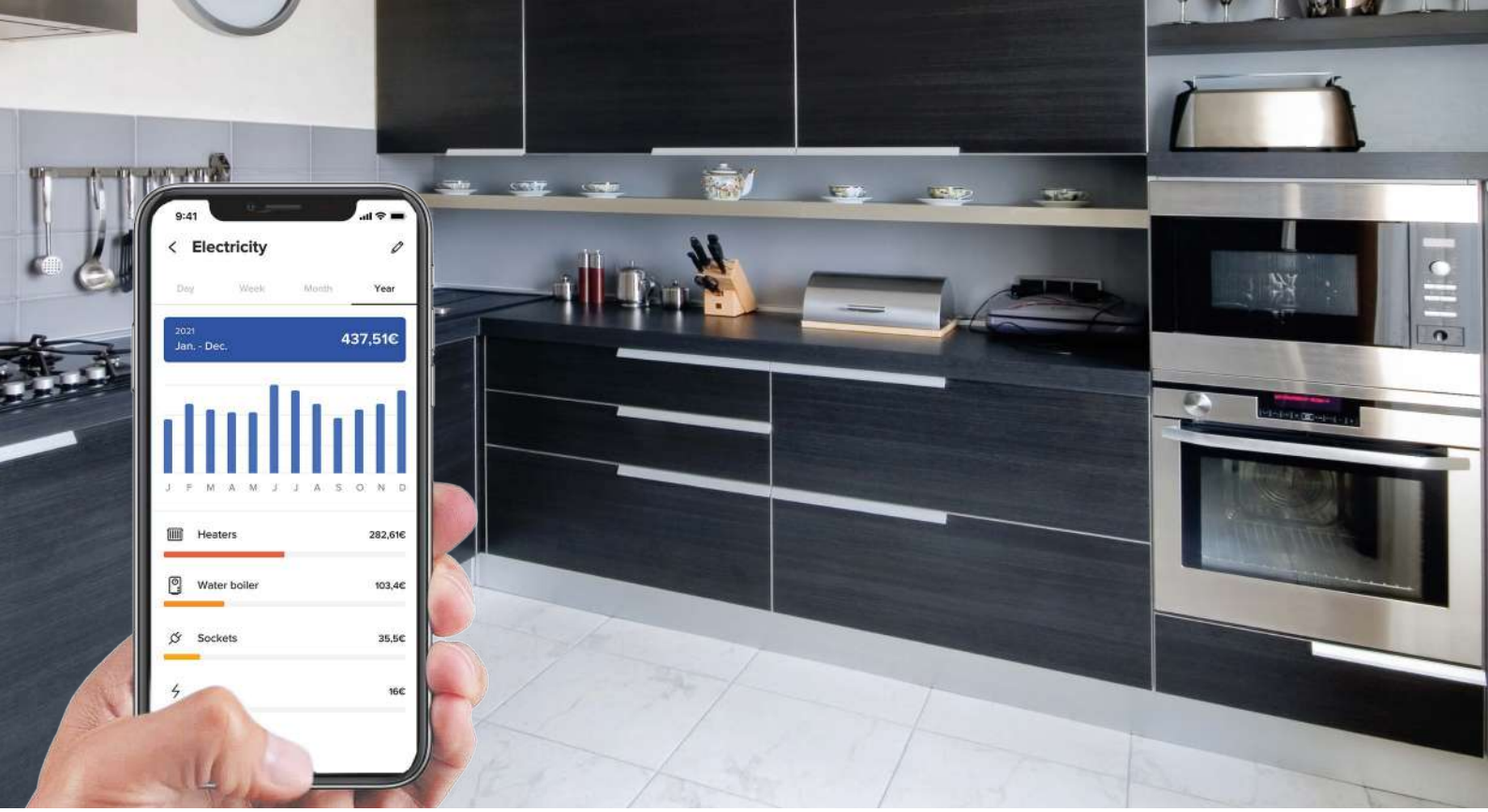
Note: 0-10V valves are not managed in proportional mode, but in ON-OFF mode

Actuator connection



Variation for the connection of a 4-tube fan-coil with 0-10 V speed adjustment - use of two 0–10 V outputs (set LOAD = 3 in case of physical configuration).





MyHOME - Load control and consumption display

Management and load control system

The load control Management system manages the maximum power used, by automatically disconnecting the least important appliances in case of overload.

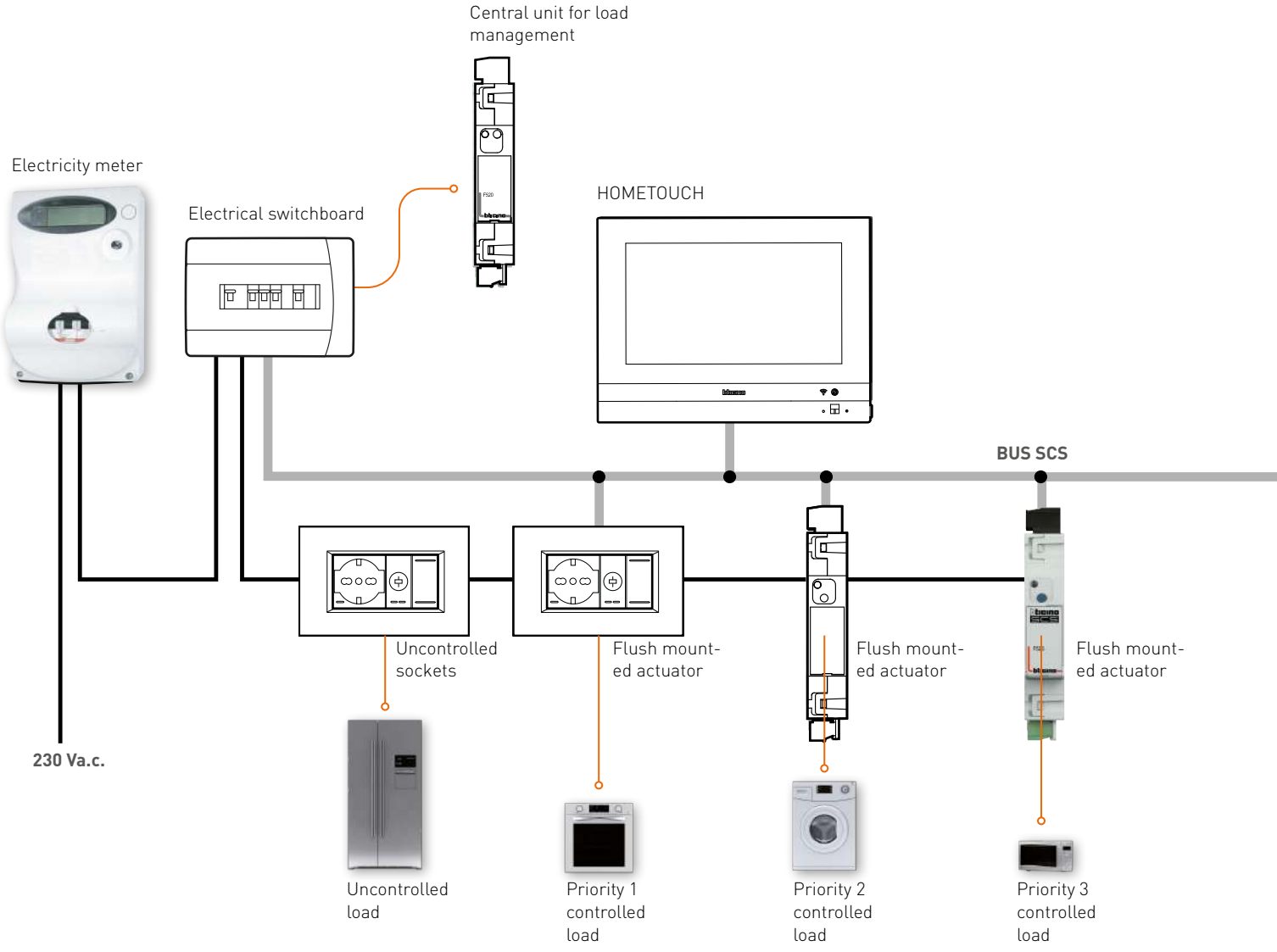
OPERATION

The control unit manages the actuators associated with the loads to be managed, measures the power absorbed by these and compares it with the preselected value (between 1.5 and 18 kW +/- 20%). If the set threshold is exceeded, the control unit disconnects the loads following the sequence (priority) set during the installation.

In the example shown, the oven, microwave and washing machine are connected to the respective actuators for control purposes, while the refrigerator is always powered.

In the event of overload, the first appliance to disconnect is the oven, which is considered the least important, and therefore configured with priority 1.
The microwave is on the other hand the appliance with the highest importance, with priority level 3, and only disconnects after the oven and the washing machine.

The status of the disconnected appliance is displayed on the 7" HOMETOUCH touch screen, on the digital controls, item KW/KG/KM8011, through LED pictograms and, if present, the Classe 300EOS internal unit as gateway, even in its graphical interface. The disconnected device can be reactivated using the button on the actuator or using the above-mentioned devices; if the overload still persists, the control unit will disconnect the subsequent loads with priority 2 and 3, until the overload condition is eliminated.

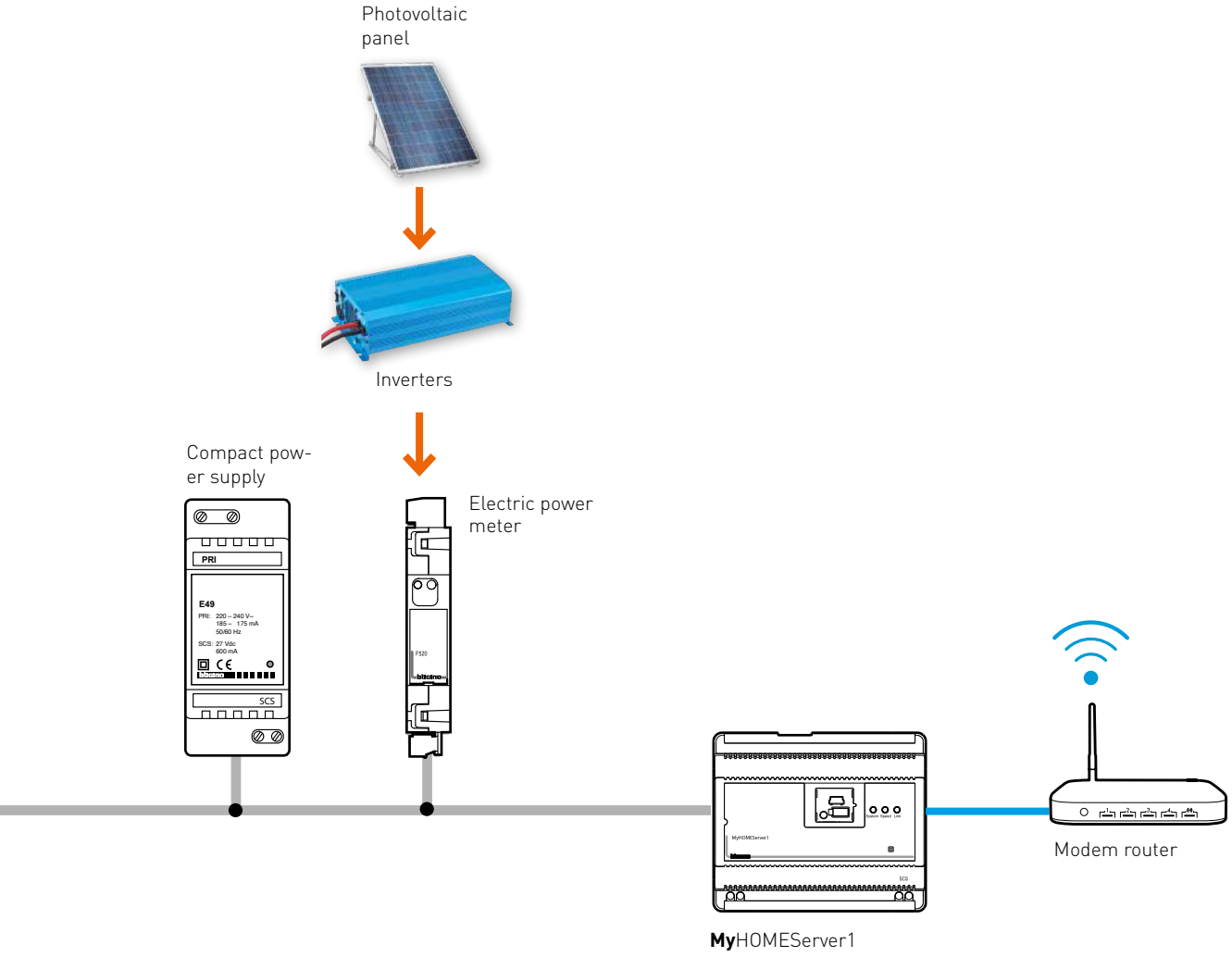


NOTA: the load control management central unit is positioned inside the electrical switchboard.

Consumption display and energy production

An important function offered by MyHOME is the possibility of real time display and filing of the home energy consumption data.
The measurement is carried out using toroid electricity meters, item F520. The display is through the Smartphone and the HOME+CONTROL App.

For the control and display of consumptions through the HOME+CONTROL App, either the MyHOMEServer1 device or the Classe 300EOS internal unit of the video door entry system must be installed as gateway.



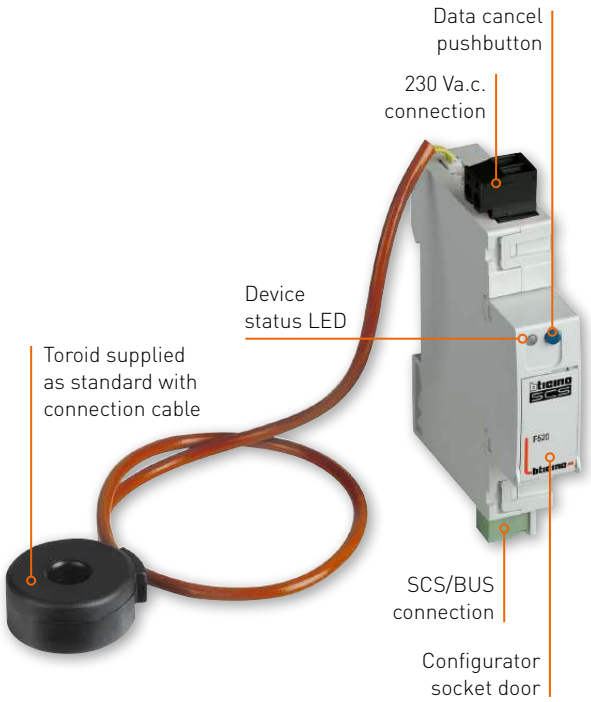
It is also possible to use Classe 300EOS with Netatmo as server of the MyHome system, as an alternative to MyHOMEServer1.
In this case it is not possible to install the Hometouch touch

Load control and consumption display

CONTROL AND MEASUREMENT DEVICES

Electricity meter item F520 with 3 toroid inputs

The device measures up to three separate electricity lines through the corresponding measurement toroids.
The intended processing and accounting functions are:
- Instantaneous consumption or production of maximum 3 lines;
- Instantaneous consumption or production on hourly basis for the last 12 months, on daily basis for the last 2 years, on monthly basis for the last 12 years.



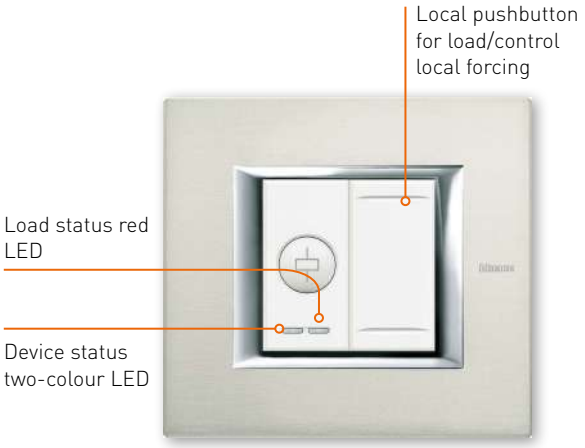
Central unit for load management art. F521

Device for the measurement of the power absorbed by the electric system, and the management of the load management system actuators.
The control unit manages up to 63 appliances or electric loads for each phase, making available the following data:
- instantaneous consumption of the controlled line;
- cumulative consumptions on hourly basis for the last 12 months, on daily basis for the last 2 years, on monthly basis for the last 12 years.

Flush mounted 16A actuator item 4672N

Flush mounted device with internal 10A relay for load control management and/or automation.
Load control mode manages the load disconnection priority based on the settings of the load control unit, item F521.
A front pushbutton allows to:
- force the priority of the load during normal operation. In this case the central unit cannot disable the load for 4 hours.
- re-enable a load disabled by the central unit (the duration of this operation lasts for 4 hours, unless the disabling key is pressed manually).

In light automation mode, it carries out all the operational activities that can be configured on the control devices, with the exclusion of shutter control.

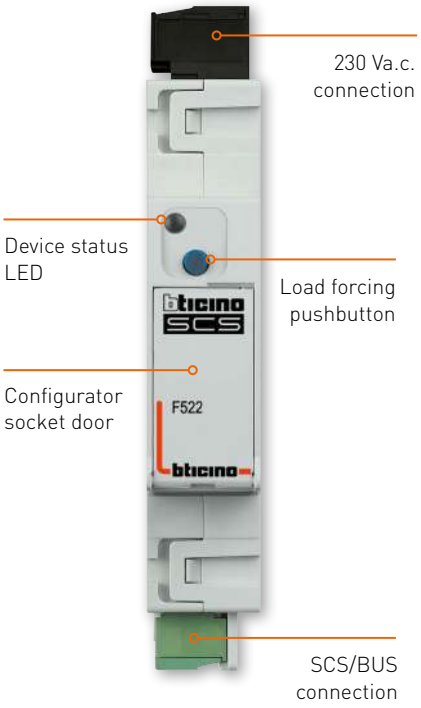


16A actuator with current sensor item F522

Device equipped with 1 10A bistable relay with zero crossing functionality for the load control management and/or automation functions, with the same modes of the flush mounted actuator, item .....4672N.
The actuator can be used for the measuring of the electricity, as it is fitted with an internal current sensor for the measurement of the consumptions of the controlled load and, in conjunction with the external optional toroid, item 3523, for the measurement of the earth leakage current of the diagnostic system.

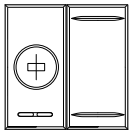
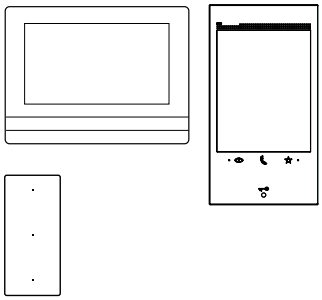
16A actuator item F523

Device equipped with 1 bistable relay with zero crossing functionality for the load control management and/or automation functions, with the same modes of the flush mounted actuator, item .....4672N.



Central unit for load management item **F522**.
The device has a similar construction to actuator **F523**.

DEVICE SELECTION

Available functions	Devices					
	Energy meter item F520	**Central unit for load management item F521**	**Actuator 16A with current sensor item F522**	**16A actuator item F523**	**Flush mounted 16A actuator item ...4672N**	**Living Now Full control item ...8011, HOMETOUCH touch screen and Classe 300EOS with Netatmo internal unit**
						
Display	●	●	●			●
Load control		●	●	●	●	●
Diagnosis 1)			●			

Note [1]: in combination with optional toroid 3523

Management and load control system

Due to the high flexibility of use of the control devices and actuators, it is possible to create different systems for every need. On these pages are some diagrams for the most typical and frequently used applications.

DIAGRAM 1 - MANAGEMENT AND LOAD CONTROL

CAUTION

A It is possible to install the following flush mounted 2-module 16A actuators:
- HC/HS/HD4672N AXOLUTE
- L/N/NT4672N LIVING/LIGHT/LIGHTECH

B The TMG circuit breakers must be selected based on the load absorption.

C The IG general circuit breaker (TMG+EARTH LEAKAGE) must be selected based on the general absorption. For better safety and comfort it is recommended to install also the STOP&GO additional device.

D Supplied with each F521 is a 3523 toroid for the reading of the current

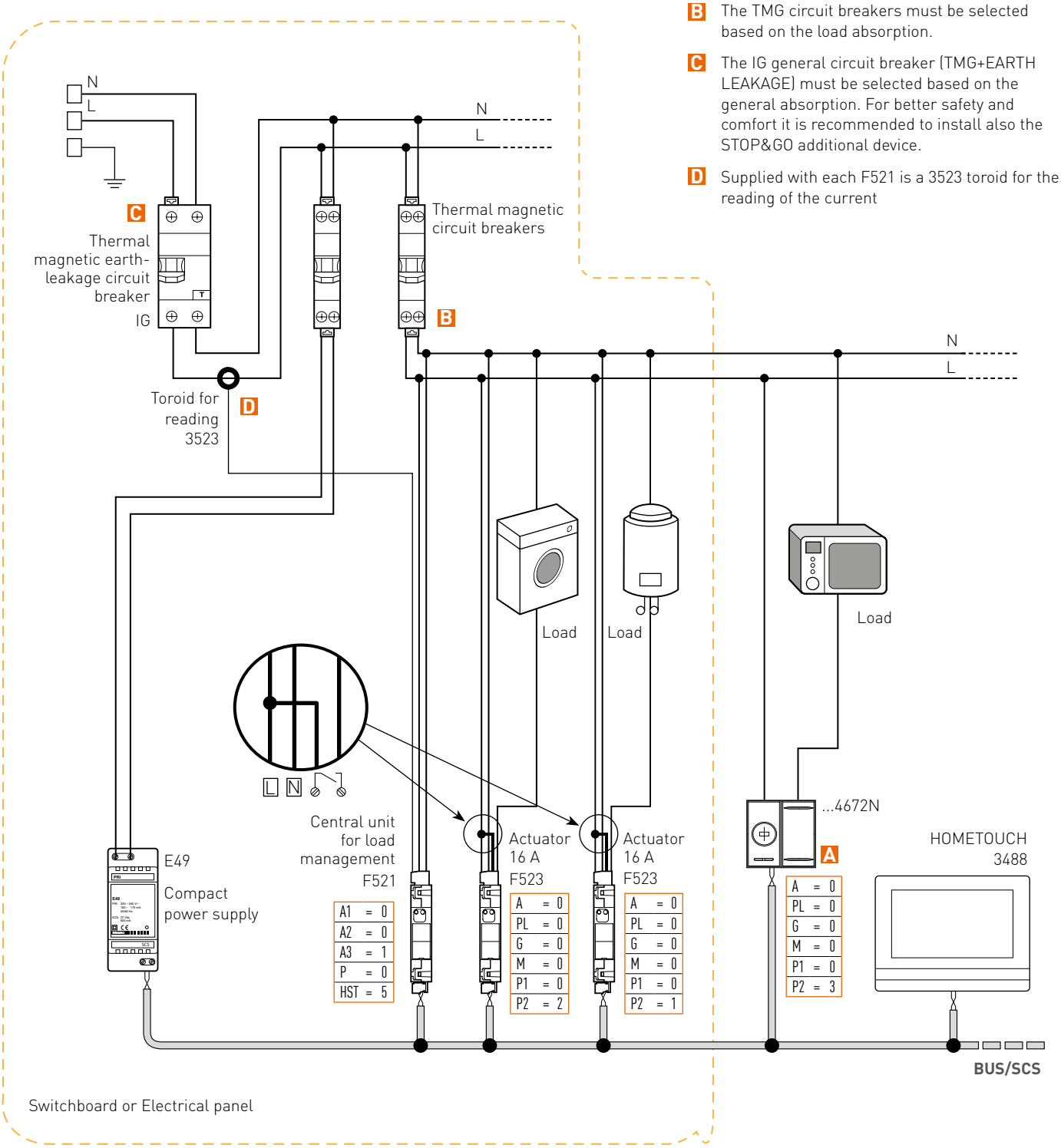
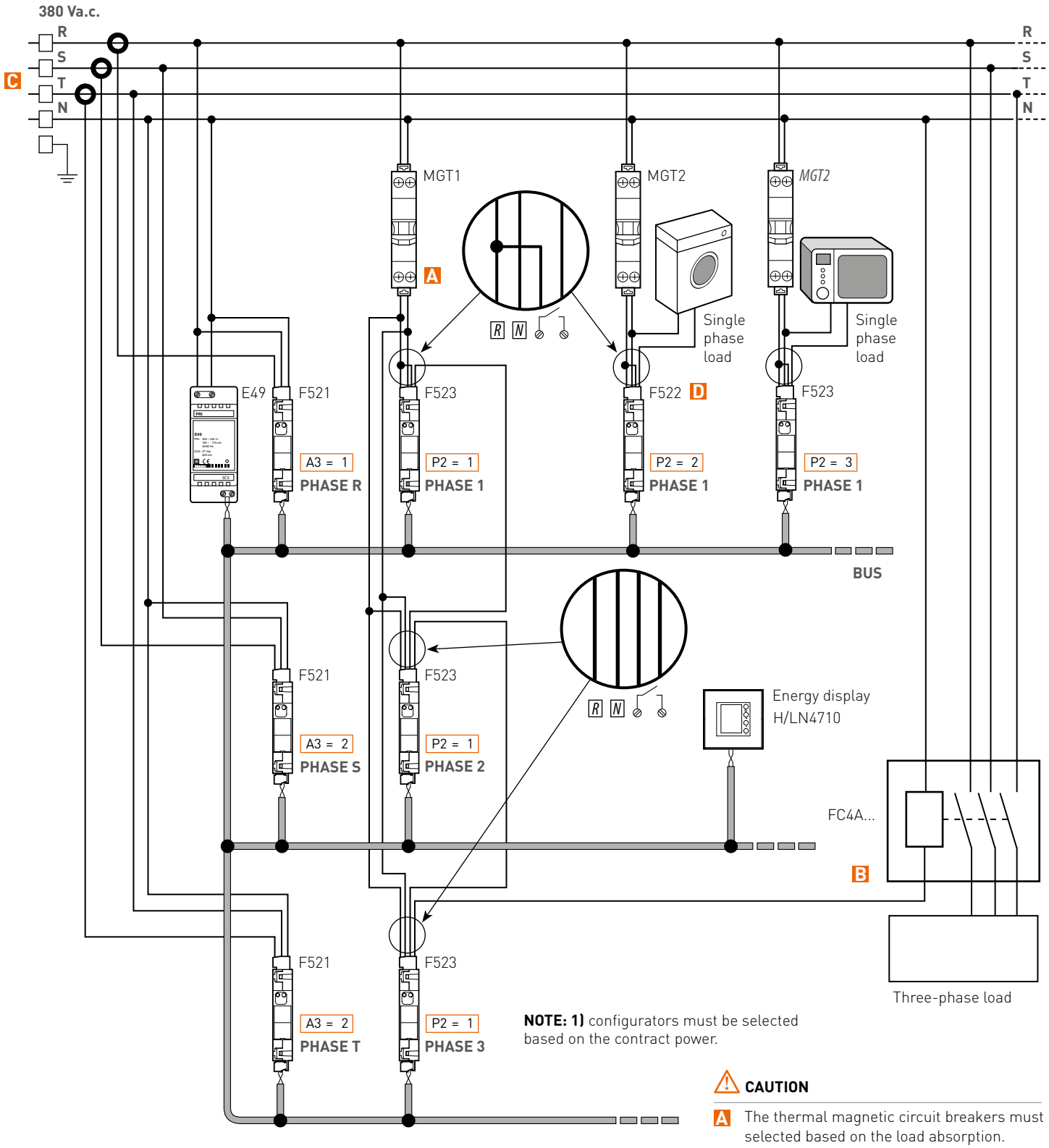


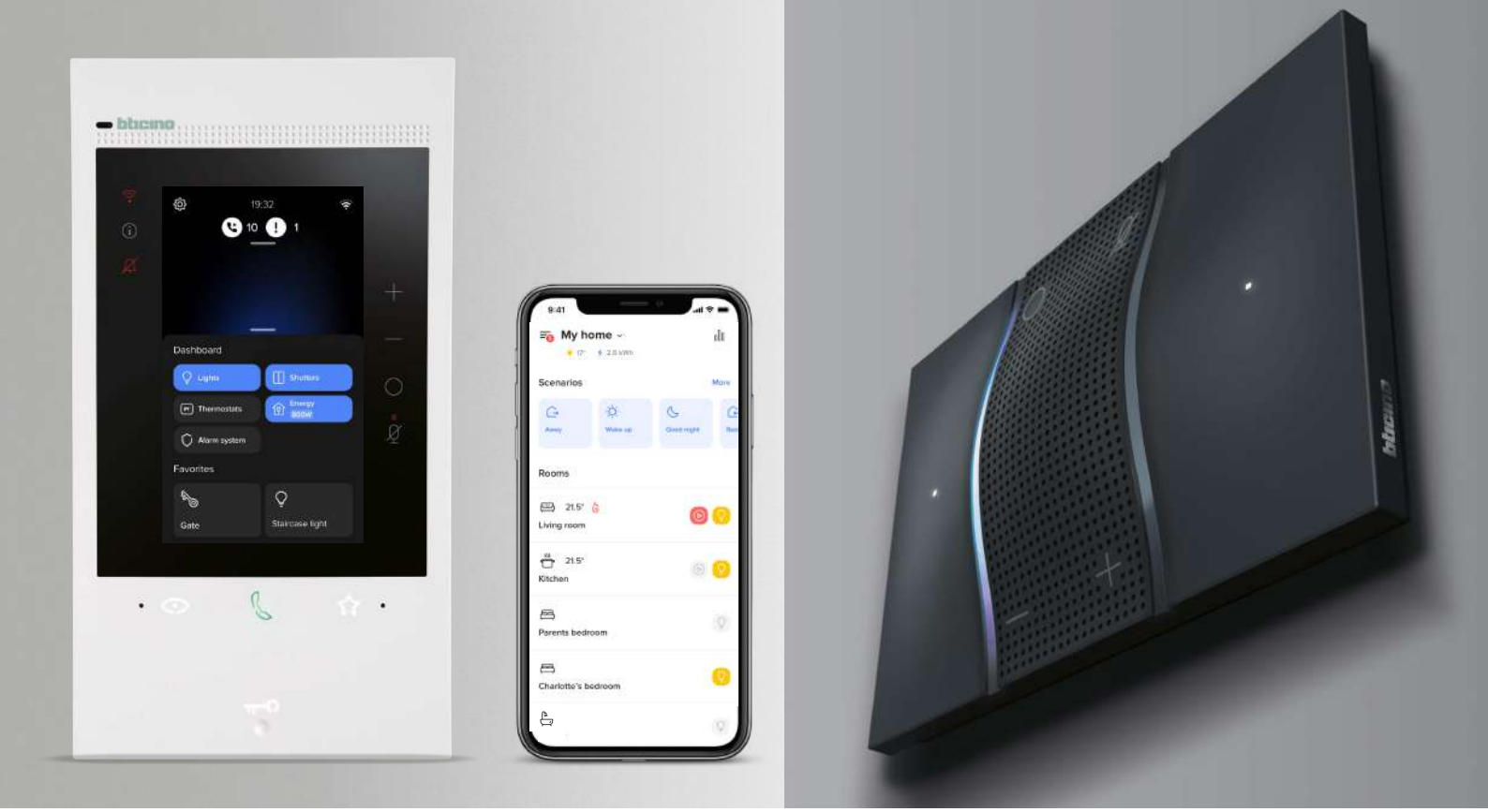
DIAGRAM 2 - THREE-PHASE LOAD CONTROL MANAGEMENT AND SINGLE PHASE LOAD WITH BUS SCS IN COMMON



NOTE: 1) configurators must be selected based on the contract power.

CAUTION

- **A** The thermal magnetic circuit breakers must be selected based on the load absorption.
- **B** The contactor must be selected based on the load absorption
- **C** The three-phase line must be balanced
- **D** F522: to be positioned where the single-phase load must be measured



MyHOME catalogue

MyHOME - INTEGRATION AND CONTROL DEVICES

344842

344844

346020

MYHOMESERVER1

3488

Item	CLASSE 300EOS WITH NETATMO CONNECTED VIDEO INTERNAL UNIT
344842	2 wires/Wi-Fi handsfree connected video internal unit with built-in Amazon Alexa voice assistant, 5" vertical touch screen LCD display and video door entry answering machine. It has a physical key for door lock release and capacitive keys for the control of the main video door entry functions: handsfree communication, entrance panel activation /camera scrolling and Favourite key (can be configured to activate the quick actions most frequently used – e.g. additional door locks, staircase light control, intercom). There are notification LEDs for: Wi-Fi network connection status, info / notifications and call exclusion. It is possible to easily interact with the built-in Alexa voice assistant, either using the dedicated capacitive keys or with your voice, and activate several functions, such as the video door entry functions, Smart Home, scenarios, reminders etc. Using the touch display, it is possible to access the notification list, as well as your favourite door entry, security and Smart Home controls (if any). The Home Page contains Smart Home function panels that allow to simultaneously control all the lights, shutters and fancoils of the house or individual rooms, to manage the thermostats and display the energy consumption of the home. Possibility of voice communication with the switchboard - if present in the system - after a specific call. The device must be configured by physically connecting the configurators, or using the menu, which will give better possibilities of customisation of associated functions and texts. Thanks to the Wi-Fi connection, you can associate the video internal unit to the Home + Security App (available for Android and iOS). The App allows to use the main video internal unit functions (receiving calls, door lock release, display of the event timeline and activation of the entrance panel/camera cycling). With the Home + Security App, it is also possible to manage the products of the Netatmo security range (outdoor and indoor cameras, door and window sensors, indoor siren and smoke detector). This allows you to quickly and easily create a Smart security system. The installer can configure the MyHOME system using the Home + Project app. Users can manage their homes: remotely with the Home + Control App, using the display interface and with Alexa® and Google voice commands. Wall mounted installation using the supplied bracket Possibility of Wi-Fi connection or using RJ45 ethernet cable with the dedicated accessory 344844.
	ETHERNET ACCESSORY
344844	accessory cable for the wired connection of the Classe 300EOS with Netatmo video internal unit using an RJ45 Ethernet cable. To be purchased separately.
	2 DIN ADDITIONAL POWER SUPPLY
346020	additional 2 DIN power supply to be used to supply the connected CLASSE 300EOS with Netatmo video internal unit (344842) locally, when required.

APP:

Home + Control

Home + Security

Scarica su App Store

DISPONIBILE SU Google Play

Item	HOMETOUCH - TOUCH SCREEN 7"
☐ 3488 W ■ 3488 Compatible with Netatmo	HOMETOUCH - Touch Screen 7" for the management of all MyHOME functions, that can be integrated with the video door entry system, to be used as connected internal unit. To use the home automation functions, configuration is not necessary. It is possible to display the MyHOME system status and control the integrated functions (lights, automation, scenarios, temperature management, Nuvo music system, ...). Thanks to the "DOOR ENTRY for HOMETOUCH" application, available both for Android and iOS operating systems, it is also possible to manage the video door entry functions of a BTicino 2 wires system using the 7" capacitive display or the Smartphone. Flush mounted installation with box for masonry walls (item 3487) or wall mounted installation with the supplied metal bracket. Available in tech grey and in white.
	BOX FOR FLUSH MOUNTED INSTALLATION
○ 3487	Box for flush mounted installation of the HOMETOUCH Touch screen item 3488 and 3488W. Width 197 mm, height 148 mm and depth 53 mm.
○ 3487AP	support for flush mounted installation on plasterboard walls of the HOMETOUCH Touch screen item 3488 and 3488W.
	CONTROL SERVER USING THE APP
○ MYHOMESERVER1	server to associate devices during the system starting-up through the HOME + PROJECT app and for the local and remote management of the functions by the user with the specific HOME+CONTROL application for Android and iOS smartphones or tablets.
	MyHOMEServer1 KIT
○ MHSERVERKIT	kit containing MyHOMEServer1 and Access Point for communication between the MyHOME system to which it is connected, and a smartphone or tablet where the HOME+CONTROL App is installed.

Note: For the details of the products managed by MyHOME and the compatible products, see the corresponding guide.

	DRIVER MANAGER
○ F459	integration platform with other brand systems - 6 DIN modules

Contact BTicino for a quote for an available driver or to request new integrations.

NOTE: ☐ **White** device ■ **Anthracite** device ○ Neutral item

LIVING NOW MyHOME
Digital devices for lights and shutters


KG8013


K8003


KM8010

KW8011


KG8100


KW8103


K8002L


K8002S


K8001

Item		VOICE CONTROL
☐ KW8013 ■ KG8013 ☐ KM8013		Amazon Alexa digital control device with voice assistant, including two capacitive controls for lighting management. 27 Vd.c. power supply from BUS through connection module item KW8001 or additional power supply unit, item K8003- 3 modules

		POWER SUPPLY
○ K8003		voice control additional power supply unit, item KW/KG/KM8013 - 2 modules

		LIGHT CONTROL
☐ KW8010 ■ KG8010 ☐ KM8010		capacitive control for the management of one or two controlled socket and light ON/OFF type functions. It can also be used as group or general control - 1 module

		FULL CONTROL
☐ KW8011 ■ KG8011 ☐ KM8011		capacitive control for the management of one to three functions among the following: on/off, dimmer, coloured lights, up/down without preset, scenarios, Nuvo multi-room sound system and load control. It can also be used as group or general control. On-board proximity sensor that allows the display of function icons when approaching the control - 1 module

		ON/OFF ACTUATORS FOR LIGHTS AND FOR SHUTTERS
○ K8002L		actuator with 2 independent relays for single or double 230 V a.c. loads: 16 A - 1 module
○ K8002S		shutter actuator with 2 internal relays 2 A 250 Va.c. In addition to the monostable and bistable UP/DOWN function, the actuator also places the shutter in a stored (PRESET) position - 1 module

		CONNECTION MODULES
○ K8001		Device for the power supply of control through electrified frame item KW/KG/KM8103.....8104.....

Item		BLANKING MODULE.
☐ KW8100 ■ KG8100 ☐ KM8100		covers for blanking modules item K4950 - 1 module

		ELECTRIFIED FRAME
☐ KW8102P1 ■ KG8102P1 ☐ KM8102P1		electrified frame with intermediate control separators (removable). For the installation of up to 3 digital controls or covers, item KW/KG/KM8100 in 2-module box with support K8102
☐ KW8103 ■ KG8103 ☐ KM8103		electrified frame with intermediate control separators (removable). For the installation of up to 3 digital controls or covers, item KW/KG/KM8100 in 3-module box with support K4703
☐ KW8103P1 ■ KG8103P1 ☐ KM8103P1		electrified frame with intermediate control separators (removable). For the installation of up to 4 digital controls or covers, item KW/KG/KM8100 in 3-module box with support K4703
☐ KW8104 ■ KG8104 ☐ KM8104		electrified frame with intermediate control separators (removable). For the installation of up to 4 digital controls or covers, item KW/KG/KM8100 in 4-module box with support K4704
☐ KW8104P1 ■ KG8104P1 ☐ KM8104P1		electrified frame with intermediate control separators (removable). For the installation of up to 5 digital controls or covers, item KW/KG/KM8100 in 4-module box with support K4704

		2-MODULE SUPPORT FOR ELECTRIFIED FRAME ITEM 8102P1
○ K8102		support for the installation of the electrified frame item .....8102P1 in 2 module box

NOTE: ☐ **White** device ■ **black** device ▫ **sand** device ○ Neutral item

Light and shutter automation

K4652M2

K4652M3

K4672M2L

K4672M2S

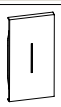
Item	CONTROL DEVICES
○ **K4652M2***	control for the management of one or two ON/OFF functions, the shutter UP/DOWN function and the adjustment of a dimmer load. It can also be used as scenario control and for the call to the floor, staircase light switching on and door lock activation functions. It manages advanced shutter functions. - 2 modules. To be completed with 1 or 2-module covers.
○ **K4652M3***	control for the management of up to three separate functions as described above - 3 modules. To be completed with 1 or 2-module covers.
	ACTUATOR/CONTROL FOR LIGHTS AND GENERIC LOADS
○ **K4672M2L***	actuator/control with 2 independent relays for single or double loads: The device can be also configured to manage a remote actuator with the same functions of the K4652M2 and K4652M3 controls - 2 modules. To be completed with 1 or 2-module covers.

Item	ACTUATOR/CONTROL FOR SHUTTER
○ **K4672M2S***	shutter actuator with 2 internal relays 2 A 250V a.c. In addition to the monostable and bistable UP/DOWN function, the actuator also places the shutter in a stored (PRESET) position. The device can be also configured to manage a remote actuator - 2 modules. To be completed with 1 or 2-module covers.

(*) DEVICE TO BE COMPLETED WITH APPROPRIATE COVER AS INDICATED IN THE BELOW TABLE

NOTE: the devices on this page can be completed also with the "covers with symbols".

FUNCTION

			K4652M2 (*)	K4652M3 (*)	K4672M2L (*)	K4672M2S (*)	
COVER COLOUR	MODULES						
White	1 MODULE	COVER CODE	KW01	KW01	KW01	KW05	KW06MH
Black			KG01	KG01	KG01	KG05	KG06MH
Sand			KM01	KM01	KM01	KM05	KM06MH
				—			
White	2 MODULES	COVER CODE	KW01MH2	—	KW01MH2	KW05MH2	
Black			KG01MH2	—	KG01MH2	KG05MH2	
Sand			KM01MH2	—	KM01MH2	KM05MH2	

NOTE: ☐ **White** device ■ **black** device ▫ **sand** device ○ Neutral item

LIVING NOW MyHOME
Movement and lighting IR sensor- Thermostat

K4659

KW4691

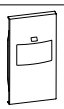
KG4691

KM4691

Item	PIR PASSIVE INFRARED SENSORS
○ **K4659***	Green Switch: passive IR movement sensor, suitable for the detection of presence in transit areas (corridors, toilets, service rooms). Operating mode (automatic or manual), time delay (5 s to 59min), and brightness threshold (20 to 1275 LUX) settable using the advanced/basic (BMSO4001/BMSO4003) configuration remote control - 2 modules

Item	THERMOSTAT
□ **KW4691** ■ **KG4691** □ **KM4691**	probe with backlit display that controls the temperature of an individual zone. It features an input for the connection of a contact line (e.g. window contact). It can be used for the management of different types of systems, and the adjustment of the fan speed when fan coils are used. Possibility of automatic operation (summer/winter), with compatible systems - 2 modules

(*) DEVICE TO BE COMPLETED WITH APPROPRIATE COVER AS INDICATED IN THE BELOW TABLE

		FUNCTION
		K4659 (*)
COVER COLOUR		
White	COVER CODE	KW17
Black		KG17
Sand		KM17

NOTE: □ **White** device ■ **black** device ▫ **sand** device ○ Neutral item

LIVING NOW MyHOME
Key covers

COVER FOR ACTUATOR ITEM K4672M2L, CONTROLS ART. K4652M2 AND ITEM K4652M3

KW01


KG01MHAG


KM19MH

KW01A


KG01MHGEN


KM01MHBACK

KW01MHBED


KG01D

KM01F

KW01X

COVER FOR ACTUATOR ITEM K4672M2S, CONTROLS ART. K4652M2 AND ITEM K4652M3

KW05


KG06MH


KG01RN


KW01PN


KG01SN

LIGHTABLE COVERS - 1 FUNCTION

		1 module
Description		Item
NEUTRAL	☐	KW01
	■	KG01
	▢	KM01
ON/OFF	☐	KW01MHAG
	■	KG01MHAG
	▢	KM01MHAG
+/- FOR DIMMER	☐	KW19MH
	■	KG19MH
	▢	KM19MH
LIGHT/WAKE UP	☐	KW01A
	■	KG01A
	▢	KM01A
OUTPUT	☐	KW01MHGEN
	■	KG01MHGEN
	▢	KM01MHGEN
COMING IN	☐	KW01MHBACK
	■	KG01MHBACK
	▢	KM01MHBACK
BED	☐	KW01MHBED
	■	KG01MHBED
	▢	KM01MHBED
DOORBELL	☐	KW01D
	■	KG01D
	▢	KM01D
KEY	☐	KW01F
	■	KG01F
	▢	KM01F
HIGH BRIGHTNESS	☐	KW01X
	■	KG01X
	▢	KM01X

LIGHTABLE COVERS - 1 FUNCTION

		1 module
Description		Item
SHUTTERS UP/DOWN	☐	KW05
	■	KG05
	▢	KM05
SHUTTERS STOP	☐	KW06MH
	■	KG06MH
	▢	KM06MH

COVER FOR HEATING, FAN, BOILER CONTROL

		1 module
Description		Item
HEATING CONTROL	☐	KW01PN
	■	KG01PN
	▢	KM01PN
FAN CONTROL	☐	KW01RN
	■	KG01RN
	▢	KM01RN
BOILER CONTROL	☐	KW01SN
	■	KG01SN
	▢	KM01SN

NOTE: ☐ **White** device ▢ **sand** device ■ **black** device

LIVING NOW MyHOME
Key covers

COVERS FOR ACTUATOR ITEM K4672M2L AND CONTROL ITEM K4652M2

KW01MH2


KG01MH2AG


KM19MH2

KW01MH2A


KG01MH2GEN


KM01MH2BACK

KW01MH2BED


KG01MH2D


KM01MH2F

KW01MH2X

LIGHTABLE COVERS - 1 FUNCTION

		2 modules
Description		Item
NEUTRAL	☐	KW01MH2
	■	KG01MH2
	▭	KM01MH2
ON/OFF	☐	KW01MH2AG
	■	KG01MH2AG
	▭	KM01MH2AG
+/- FOR DIMMER	☐	KW19MH2
	■	KG19MH2
	▭	KM19MH2
LIGHT/WAKE UP	☐	KW01MH2A
	■	KG01MH2A
	▭	KM01MH2A
OUTPUT	☐	KW01MH2GEN
	■	KG01MH2GEN
	▭	KM01MH2GEN
COMING IN	☐	KW01MH2BACK
	■	KG01MH2BACK
	▭	KM01MH2BACK
BED	☐	KW01MH2BED
	■	KG01MH2BED
	▭	KM01MH2BED
DOORBELL	☐	KW01MH2D
	■	KG01MH2D
	▭	KM01MH2D
KEY	☐	KW01MH2F
	■	KG01MH2F
	▭	KM01MH2F
HIGH BRIGHTNESS	☐	KW01MH2X
	■	KG01MH2
	▭	KM01MH2X

COVERS FOR ACTUATOR ITEM K4672M2S AND CONTROLS ITEM K4652M2


KG05MH2

LIGHTABLE COVERS - 1 FUNCTION

		2 modules
Description		Item
UP/DOWN	☐	KW05MH2
	■	KG05MH2
	▭	KM05MH2

COVERS FOR GREEN SWITCH ITEM K4659

	2 modules
	Item
☐	KW17
■	KG17
▭	KM17

NOTE: ☐ **White** device ■ **black** device ▭ **sand** device ○ Neutral item

LIVINGLIGHT MyHOME
Lights and shutter automation


LN4652


L4652/2


L4652/3


L4680

MHKIT1116

Item		CONTROL FOR SPECIAL FUNCTIONS
○ L4651M2		special control – can drive an actuator performing all the standard functions of a control and in addition some special functions: activation of 4 scenarios, timings, activation of an actuator installed on a different bus than the control, selection of the fixed adjustment level and the dimmer soft-start and soft-stop speed, sound system, door lock switching on control, call to the floor and switching on staircase light control and management of auxiliary channels. To be completed with 1 or 2-module key covers with one or two functions - 2 modules
○ LN4652		8-KEY control for light management, shutter automation, sound system and scenarios - SCS-BUS connection - sizes: 2 modules
○ 3541		A5 sheets for the customisation of the control symbols item H4652 and LN4652. The sheets can be customised using the tool found in the MyHOME_Suite configuration software - black
○ 3542		as above - white
		CONTROLS FOR SINGLE OR DOUBLE LOADS
○ 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 - 2 modules
○ 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 - 3 modules
		CONTROL FOR SHUTTER MANAGEMENT
○ LN4660M2		2 module flush mounted control with reduced thickness with 3 pushbuttons. In addition to monostable and bistable UP/DOWN operation, the device also places the shutter in a stored (PRESET) position. Only suitable for operation with advanced actuators LN4661M2 and F401, specific for the management of shutters.
		HOME-AUTOMATION HINGE
○ 4911TDM		accessory for the installation of 2-module key covers on devices installed in 503E box

Item		SCENARIO CONTROL
□ N4680 ■ NT4680 ■ L4680		customisable scenario control for the activation of up to 4 Automation or Temperature Control independent scenarios saved in the F420 scenario module - 2 modules.
		KIT - SHUTTER AUTOMATION
○ MHKIT1013		solution for the automation of shutters. It gives the possibility of controlling 5 motorised shutters or curtains, or mixed shutter/curtain solutions, with individual and general controls. The kit includes: • 1 power supply item E49 • 1 shutter control item LN4660M2 • 5 shutter actuators item LN4661M2 • key covers with UP/DOWN and STOP symbols • various configurators. It can be expanded with other similar actuators or integrated with other MyHOME functions. LIVINGLIGHT aesthetic (White, Tech, Anthracite finishes)
		KIT - LIGHT AND SHUTTER AUTOMATION
○ MHKIT1116		solution for the control of 6 shutters or 6 lights and 3 shutters, or 12 light points, with general and individual controls. It is possible to save the shutter position. The kit includes: • 1 power supply item E49 • 1 shutter control item L4652/2 • 6 shutter actuators item LN4672M2 • various configurators. To be completed with LIVINGLIGHT key covers. It can be expanded with other MyHOME devices that share the BUS cable, item L4669.

Note: the following products are not included in the package and have to be purchased separately:
- cable (sheathed pair) art. L4669 sold in 100 m coil;
- flush and wall mounted boxes, supports and front cover plates of the LIVINGLIGHT range.

NOTE: □ **White** device ■ **Tech** device ■ **Anthracite** device ○ Neutral item

LIVINGLIGHT MyHOME

Lights and shutter automation - Temperature Control - Energy Management and Consumption display


L4658N


N4659N


LN4672M2


LN4691


N4693

Item	PIR+US DOUBLE TECHNOLOGY GREEN SWITCH
☐ N4658N ■ NT4658N ■ L4658N	Green Switch: double technology presence sensor, passive IR and ultrasound (PIR+US), suitable for the detection of presence in working areas (offices, meeting rooms). With manual ON/OFF pushbutton. Operating mode (automatic or manual), time delay (5 s to 59 min), and brightness threshold (20 to 1275 LUX) settable using the advanced/basic (BMS04001/ BMS04003) configuration remote control; physical or virtual configuration. 2 modules

	PIR PASSIVE INFRARED GREEN SWITCH
☐ N4659N ■ NT4659N ■ L4659N	Green Switch: passive IR (PIR) sensor, suitable for the detection of presence in transit areas (corridors, toilets, service rooms). Operating mode (automatic or manual), time delay (5 s to 59min), and brightness threshold (20 to 1275 LUX) settable using the advanced/basic (BMS04001/ BMS04003) configuration remote control; physical or virtual configuration. 2 modules

	FLUSH MOUNTED ACTUATORS
○ LN4672M2	actuator/control with 2 independent relays - for single, double or mixed loads: 1380 W resistive, 1380 W incandescence lamps, 460 W for reducer motors, 460 VA cosφ 0.5 for ferromagnetic transformers and 250 W for fluorescent lamps - logic relay interlock via configuration. The device can be also configured to manage a remote actuator - 2 modules.

	ACTUATORS FOR SHUTTER MANAGEMENT
○ LN4661M2	2 module flush mounted actuator with 2 internal relays and 4 pushbuttons. In addition to monostable and bistable UP/DOWN operation, the actuator also places the shutter in a stored (PRESET) position - to be combined with control devices LN4660M2

Item	TEMPERATURE PROBE WITH DISPLAY
○ LN4691	flush mounted device with backlit display. It can be used to control the temperature of an individual zone, irrespective of a temperature control central unit being installed as part of the system or not. It has a temperature probe and an input for the connection of a contact line (e.g. window contact). It can be used for the management of different types of systems, and the adjustment of the fan speed when fan coils are used. Possibility of automatic operation (summer/winter) with compatible systems. bus SCS connection – 2 modules.

	PROBES
☐ N4693 ■ NT4693 ■ L4693	probe to control the room temperature for heating and cooling systems – temperature measurement range 3–40 °C - 2 modules

	LOAD CONTROL MANAGEMENT
☐ N4672N ■ NT4672N ■ L4672N	1 relay actuator - 10 A for incandescence lamps and 4 A for fluorescent lamps or ferromagnetic transformers, and 500 W for compact fluorescent and LED lamps for the Automation and/or Load control management functions. Pushbutton for forced load operation - flush mounted version - 2 modules

	LOAD CONTROL KIT
○ MHKIT4015	This kit gives the possibility of managing the maximum power used and automatically disconnect the less important users in case of overload (based on set priority levels). It can easily be expanded and integrated with other MyHOME functions. The kit includes: • 1 power supply item E49 • 1 load control central unit item F521 • 1 x 16A actuator with measurement sensor item F522 • 2 actuators item F523 • 1 energy display item LN4710 • various configurators.

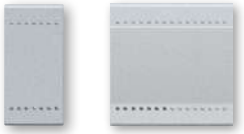
	CONSUMPTION DISPLAY
○ LN4710	Energy Display. Device with 1.6" display, for the display of the energy consumption data (obtained from item F520, F521, 3522N), and for the control of the actuators of the Energy Management system item F522 and item F523 - 2 modules

NOTE: ☐ **White** device ■ **Tech** device ■ **Anthracite** device ○ Neutral item

LIVINGLIGHT MyHOME
Key covers

2-FUNCTION NON-SILK-SCREEN PRINTED KEY COVERS

N4915LN N4915M2LN

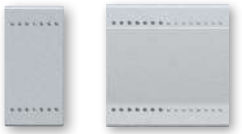


NT4915N NT4915M2LN

L4915N L4915M2N

2-FUNCTION NON-SILK-SCREEN PRINTED KEY COVERS

N4911N N4911M2N



NT4911N NT4911M2N

L4911N L4911M2N

NON-SILK-SCREEN PRINTED KEY COVERS - 1 FUNCTION			
	1 module	2 modules	
	Item	Item	
	Livinglight		
☐	**N4915LN**	**N4915M2LN**	
■	**NT4915N**	**NT4915M2N**	
■	**L4915N**	**L4915M2N**	

* key cover that can be used for 1 and 2 functions

NON-SILK-SCREEN PRINTED KEY COVERS - 2 FUNCTIONS		
1 module	2 modules	
Item	Item	
Livinglight		
☐ **N4911N**	**N4911M2N**	
■ **NT4911N**	**NT4911M2N**	
■ **L4911N**	**L4911M2N**	

CUSTOMISABLE LIVINGLIGHT KEY COVERS WITH DIFFUSERS, AVAILABLE IN KIT

CUSTOMISABLE KEY COVERS			
		1 module	2 modules
Description		Item	Item
1 FUNCTION CUSTOMISABLE KEY COVER WITH 1 DIFFUSER*	☐	**N4915TN**	**N4915M2TN**
	■	**NT4915TN**	**NT4915M2TN**
	■	**L4915TN**	**L4915M2TN**
2 FUNCTION CUSTOMISABLE KEY COVER WITH 2 DIFFUSERS*	☐	**N4911TN**	**N4911M2TN**
	■	**NT4911TN**	**NT4911M2TN**
	■	**L4911TN**	**L4911M2TN**

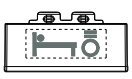
1 FUNCTION

customisable with 1 diffuser

2 FUNCTIONS

customisable with 2 diffusers

DIFFUSER KIT		
Description		Item
KIT WITH DIFFUSER ON THE SIDE (50 DIFFUSERS)	☐	**N4915SETBL**
	■	**NT4915SETBL**
	■	**L4915SETBL**



NOTE: ☐ **White** device ■ **Tech** device ■ **Anthracite** device ○ Neutral item

LIVINGLIGHT MyHOME
Key covers

1-FUNCTION SILK-SCREEN PRINTED KEY COVERS


NT4915AN


NT4915M2ADN


NT4915MR

SILK-SCREEN PRINTED KEY COVERS WITH SYMBOLS - 1 FUNCTION

		Livinglight	
		1 module	2 modules
Description		Item	Item
OFF	□	—	—
	■	—	—
	■	—	—
ON	□	—	—
	■	—	—
	■	—	—
GEN	□	—	—
	■	—	—
	■	—	—
DIMMER	□	—	N4915M2ADN
	■	—	NT4915M2ADN
	■	—	L4915M2ADN
STOP	□	N4915AEN	—
	■	NT4915AEN	—
	■	L4915AEN	—
LIGHT	□	N4915AN	N4915M2AN
	■	NT4915AN	NT4915M2AN
	■	L4915AN	L4915M2AN
STAIRCASE LIGHT	□	N4915BN	N4915M2BN
	■	NT4915BN	NT4915M2BN
	■	L4915BN	L4915M2BN
BED LIGHT	□	—	—
	■	—	—
	■	—	—
BELL	□	—	—
	■	—	—
	■	—	—
EXHAUST FAN	□	—	—
	■	—	—
	■		
KEY	□	N4915FN	N4915M2FN
	■	NT4915FN	NT4915M2FN
	■	L4915FN	L4915M2FN
DO NOT DISTURB	□	N4915DD	N4915M2DD
	■	NT4915DD	NT4915M2DD
	■	L4915DD	L4915M2DD
DOORBELL	□	N4915DN	N4915M2DN
	■	NT4915DN	NT4915M2DN
	■	L4915DN	L4915M2DN
MAKE UP THE ROOM	□	N4915MR	—
	■	NT4915MR	—
	■	L4915MR	—

2-FUNCTION SILK-SCREEN PRINTED KEY COVERS


NT4911AHN

NT4911AIN

SILK-SCREEN PRINTED KEY COVERS WITH SYMBOLS - 2 FUNCTIONS

		Livinglight	
		1 module	2 modules
Description		Item	Item
ON - OFF - GEN	□	N4911AFN	N4911M2AFN
	■	NT4911AFN	NT4911M2AFN
	■	L4911AFN	L4911M2AFN
ON - OFF	□	N4911AGN	N4911M2AGN
	■	NT4911AGN	NT4911M2AGN
	■	L4911AGN	L4911M2AGN
UP - DOWN	□	N4911AHN	N4911M2AHN
	■	NT4911AHN	NT4911M2AHN
	■	L4911AHN	L4911M2AHN
ON - OFF ADJUSTMENT	□	N4911AIN	N4911M2AIN
	■	NT4911AIN	NT4911M2AIN
	■	L4911AIN	L4911M2AIN
LIGHT	□	—	—
	■	—	—
	■	—	—
EXHAUST FAN	□	—	—
	■	—	—
	■	—	—
TREBLE CLEF	□	—	—
	■	—	—
	■	—	—
+ up and – down	□	N4911ADN	—
	■	NT4911ADN	—
	■	L4911ADN	—

NOTE: □ **White** device ■ **Tech** device ■ **Anthracite** device ○ Neutral item

MÀTIX MyHOME
Lights and shutter automation


AM5832/3


AM5852M2

Item		CONTROL FOR SPECIAL FUNCTIONS
○ AM5831M2		special control – can drive an actuator performing all the standard functions of a control and in addition some special functions: activation of 4 scenarios, timings, activation of an actuator installed on a different bus than the control, selection of the fixed adjustment level and the dimmer soft-start and soft-stop speed, sound system, door lock switching on control, call to the floor and switching on staircase light control and management of auxiliary channels. To be completed with 1 or 2-module key covers with one or two functions - 2 modules

		CONTROLS FOR SINGLE OR DOUBLE LOADS
○ AM5832/2		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 - 2 modules
○ AM5832/3		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 - 3 modules

		CONTROL FOR SHUTTER MANAGEMENT
○ AM5860M2		2 module flush mounted control with reduced thickness with 3 pushbuttons. In addition to monostable and bistable UP/DOWN operation, the device also places the shutter in a stored (PRESET) position. only suitable for operation with advanced actuators AM5861M2 and F401, specific for the management of shutters.

		LIGHT AND SHUTTER CONTROL/ACTUATOR
○ AM5852M2		actuator/control with 2 independent relays - for single, double or mixed loads: 1380 W resistive, 1380 W incandescence lamps, 460 W for reducer motors, 460 VA cosφ 0.5 for ferromagnetic transformers and 250 W for fluorescent lamps - logic relay interlock via configuration. The device can be also configured to manage a remote actuator. The device has "Zero crossing" technology - 2 modules.

		SHUTTER CONTROL/ACTUATOR
○ AM5861M2		2 module flush mounted actuator with 2 internal relays and 4 pushbuttons. In addition to monostable and bistable UP/DOWN operation, the actuator also places the shutter in a stored (PRESET) position.

Light sensor


AM5659

Item		PIR+US DOUBLE TECHNOLOGY GREEN SWITCH
☐ AM5658		Green Switch: double technology presence sensor, passive IR and ultrasound (PIR+US), suitable for the detection of presence in working areas (offices, meeting rooms). With manual ON/OFF pushbutton. Operating mode (automatic or manual), time delay (5 s to 59 min), and brightness threshold (20 to 1275 LUX) settable using the advanced/basic (BMSO4001/ BMSO4003) configuration remote control; physical or virtual configuration. 2 modules

		PIR PASSIVE INFRARED GREEN SWITCH
☐ AM5659		Green Switch: passive IR (PIR) sensor, suitable for the detection of presence in transit areas (corridors, toilets, service rooms). Operating mode (automatic or manual), time delay (5 s to 59min), and brightness threshold (20 to 1275 LUX) settable using the advanced/basic (BMSO4001/ BMSO4003) configuration remote control; physical or virtual configuration. 2 modules

NOTE: ☐ **White** device ○ Neutral item

MÀTIX MyHOME
Key covers


AM5911*


AM5911/2*

AM5915AC

AM5915/2AA


AM5915BA

AM5911AF

AM5911AI

NON-SILK-SCREEN PRINTED KEY COVERS - 1 FUNCTION

	1 module	2 modules
	Item	Item
☐	AM5911*	AM5911/2*

NON-SILK-SCREEN PRINTED KEY COVERS - 2 FUNCTIONS

	1 module	2 modules
	Item	Item
	Axolute	
☐	AM5911*	AM5911/2*

* key cover that can be used for 1 and 2 functions

SILK-SCREEN PRINTED KEY COVERS WITH SYMBOLS - 2 FUNCTIONS

		1 module	2 modules
Description		Item	Item
ON - OFF - GEN	☐	AM5911AF	AM5911/2AF
ON - OFF	☐	AM5911AG	AM5911/2AG
UP - DOWN	☐	AM5911AH	AM5911/2AH
ADJUSTMENT ON – OFF	☐	AM5911AI	AM5911/2AI

SILK-SCREEN PRINTED KEY COVERS WITH SYMBOLS - 1 FUNCTION

		1 module	2 modules
Description		Item	Item
OFF	☐	AM5915AA	AM5915/2AA
ON	☐	AM5915AB	AM5915/2AB
GEN	☐	AM5915AC	AM5915/2AC
DIMMER	☐	AM5915AD	AM5915/2AD
STOP	☐	AM5915AE	—
LIGHT	☐	AM5915BA	AM5915/2BA
BELL	☐	AM5915BB	—
KEY	☐	AM5915BD	—

NOTE: ☐ **White** device ○ Neutral item

AXOLUTE MyHOME
Lights and shutter automation


H4651M2


H4652


H4652/2


H4652/3


HD4657M3


HS4657M3

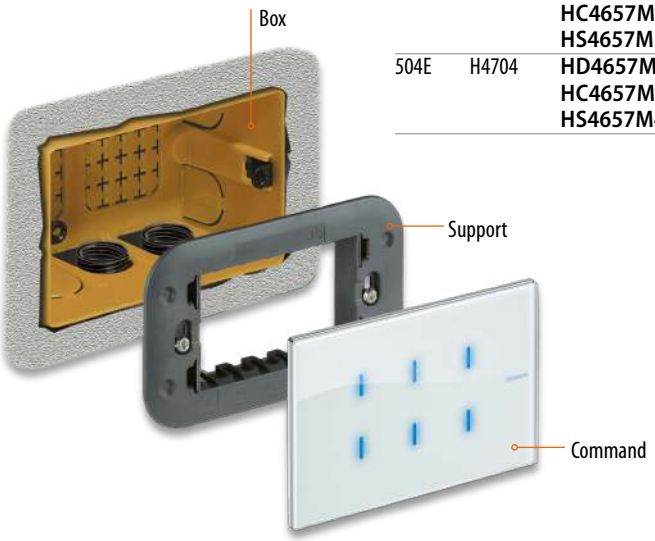
Item		
		CONTROL FOR SPECIAL FUNCTIONS
○ **H4651M2**		Special control – can drive an actuator performing all the standard functions of a control and in addition some special functions: activation of 4 scenarios saved in module item F420, timings, activation of an actuator installed on a different bus than the control, selection of the fixed adjustment level and the dimmer soft-start and soft-stop speed, sound system, door lock switching on control, call to the floor and switching on staircase light control and management of auxiliary channels. To be completed with 1 or 2-module key covers with one or two functions - 2 modules
○ **H4652**		8-KEY control for light management, shutter automation, sound system and scenarios - SCS-BUS connection - sizes: 2 modules
○ **3541**		A5 sheets for the customisation of the control symbols item H4652 and LN4652. The sheets can be customised using the tool found in the MyHOME_Suite configuration software.
○ **3542**		as above - white
		CONTROLS FOR SINGLE OR DOUBLE LOADS
○ **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 - 2 modules
○ **H4652/3**		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 - 3 modules
		CONTROL FOR SHUTTER MANAGEMENT
○ **H4660M2**		2 module flush mounted control with reduced thickness with 3 pushbuttons. In addition to the UP/DOWN monostable and bistable functions, the device sets the shutter to a stored position (PRESET) - designed to only work with the specific shutter management advanced actuators, H4661M2 and F401
		HOME-AUTOMATION HINGE
○ **4911TDM**		**Livinglight** accessory for the installation of 2-module key covers on devices installed in 503E box
		SCENARIO CONTROL
□ **H4680** ■ **HC4680** ■ **HS680**		Customisable scenario control for the activation of up to 4 Automation, Temperature Control and Sound System independent scenarios saved in the F420 scenario module - 2 modules.

Item		
		GLASS DIGITAL CONTROLS
		MyHOME control which can control single loads or group loads (e.g. lights and shutters), sound system, scenario, basic door entry functions (e.g. gate opening). The configuration can take place in two different ways: physical (putting the physical configurators in their sockets) or virtual (the control can be configured remotely). It has capacitive keys, which are touch activated. They can be identified by LED with light of adjustable intensity.
		WHITE GLASS
□ **HD4657M3**		6-key control– size: 3 modules
□ **HD4657M4**		8-key control– size: 4 modules
		WHICE
■ **HC4657M3**		6-key control– size: 3 modules
■ **HC4657M4**		8-key control– size: 4 modules
		NIGHTER
■ **HS4657M3**		6-key control– size: 3 modules
■ **HS4657M4**		8-key control– size: 4 modules

NOTE: for white glass controls check contact your local BTicino commercial representative for availability

INSTALLATION OF THE GLASS DIGITAL CONTROL

Box	Support	Control
503E	H4703	**HD4657M3** **HC4657M3** **HS4657M3**
504E	H4704	**HD4657M4** **HC4657M4** **HS4657M4**



NOTE: □ **White** device ■ **Tech** device ■ **Anthracite** device ○ Neutral item

AXOLUTE MyHOME

Lights and shutter automation - Temperature Control - Load Management and Consumption display


HD4658


HD4659


H4672M2


H4691


HS4693


HS4672N

Item	PIR+US DOUBLE TECHNOLOGY GREEN SWITCH
☐ HD4658 ■ HC4658 ■ HS4658 	Green Switch: double technology presence sensor, passive IR and ultrasound (PIR+US), suitable for the detection of presence in working areas (offices, meeting rooms). With manual ON/OFF pushbutton. Operating mode (automatic or manual), time delay (5 s to 59 min), and brightness threshold (20 to 1275 LUX) settable using the advanced/basic (BMSO4001/ BMSO4003) configuration remote control; physical or virtual configuration. 2 modules
	PIR PASSIVE INFRARED GREEN SWITCH
☐ HD4659 ■ HC4659 ■ HS4659 	Green Switch: passive IR (PIR) sensor, suitable for the detection of presence in transit areas (corridors, toilets, service rooms). Operating mode (automatic or manual), time delay (5 s to 59min), and brightness threshold (20 to 1275 LUX) settable using the advanced/basic (BMSO4001/ BMSO4003) configuration remote control; physical or virtual configuration. 2 modules
	FLUSH MOUNTED ACTUATORS
○ H4672M2 	actuator/control with 2 independent relays - for single, double or mixed loads: 1380 W resistive, 1380 W incandescence lamps, 460 W for reducer motors, 460 VA cosφ 0.5 for ferromagnetic transformers and 250 W for fluorescent lamps - logic relay interlock via configuration. The device can be also configured to manage a remote actuator - 2 modules.
	ACTUATORS FOR SHUTTER MANAGEMENT
○ H4661M2 	2 module flush mounted actuator with 2 internal relays and 4 pushbuttons. In addition to monostable and bistable UP/DOWN operation, the actuator also places the shutter in a stored (PRESET) position - to be combined with control devices H4660M2

Item	TEMPERATURE PROBE WITH DISPLAY
○ H4691 	flush mounted device with backlit display. It can be used to control the temperature of an individual zone, irrespective of a temperature control central unit being installed as part of the system or not. It has a temperature probe and an input for the connection of a contact line (e.g. window contact). It can be used for the management of different types of systems, and the adjustment of the fan speed when fan coils are used. Possibility of automatic operation (summer/winter) with compatible systems. bus SCS connection – 2 modules.
	PROBES
☐ HD4693 ■ HC4693 ■ HS4693 	probe to control the room temperature for heating and cooling systems – temperature measurement range 3–40 °C - 2 modules
	LOAD CONTROL MANAGEMENT
☐ HD4672N ■ HC4672N ■ HS4672N 	1 relay actuator - 10 A for incandescence lamps and 4 A for fluorescent lamps or ferromagnetic transformers, and 500 W for compact fluorescent and LED lamps for the Automation and/or Load control management functions. Pushbutton for forced load operation - flush mounted version - 2 modules
	CONSUMPTION DISPLAY
○ H4710 	Energy Display. Device with 1.6" display, for the display of the energy consumption data (obtained from item F520, F521, 3522N), and for the control of the actuators of the Energy Management system item F522 and item F523 - 2 modules

NOTE: ☐ **White** device ■ **Tech** device ■ **Anthracite** device ○ Neutral item

AXOLUTE MyHOME
Key covers

1-FUNCTION SILK-SCREEN PRINTED KEY COVERS

HD4915AA

HC4915/2AA


HS4915BA

SILK-SCREEN PRINTED KEY COVERS WITH SYMBOLS - 1 FUNCTION

Description		1 module Item	2 modules Item
OFF	☐	HD4915AA	HD4915M2AA
	■	HC4915AA	HC4915/2AA
	■	HS4915AA	HS4915/2AA
ON	☐	HD4915AB	HD4915M2AB
	■	HC4915AB	HC4915/2AB
	■	HS4915AB	HS4915/2AB
GEN	☐	HD4915AC	HD4915M2AC
	■	HC4915AC	HC4915/2AC
	■	HS4915AC	HS4915/2AC
DIMMER	☐	HD4915AD	HD4915M2AD
	■	HC4915AD	HC4915/2AD
	■	HS4915AD	HS4915/2AD
STOP	☐	HD4915AE	—
	■	HC4915AE	—
	■	HS4915AE	—
LIGHT	☐	HD4915BA	HD4915M2BA
	■	HC4915BA	HC4915/2BA
	■	HS4915BA	HS4915/2BA
STAIRCASE LIGHT	☐	—	—
	■	—	—
	■	—	—
BED LIGHT	☐	HD4915BL	HD4915M2BL
	■	HC4915BL	HC4915M2BL
	■	HS4915BL	HS4915M2BL
BELL	☐	HD4915BB	HD4915M2BB
	■	HC4915BB	HC4915/2BB
	■	HS4915BB	HS4915/2BB
EXHAUST FAN	☐	HD4915BC	HD4915M2BC
	■	HC4915BC	HC4915/2BC
	■	HS4915BC	HS4915/2BC
KEY	☐	HD4915BD	
	■	HC4915BD	
	■	HS4915BD	
DO NOT DISTURB	☐	HD4915DD	HD4915M2DD
	■	HC4915DD	HC4915M2DD
	■	HS4915DD	HS4915M2DD
DOORBELL	☐	—	—
	■	—	—
	■	—	—
MAKE UP THE ROOM	☐	HD4915MR	—
	■	HC4915MR	—
	■	HS4915MR	—

2-FUNCTION SILK-SCREEN PRINTED KEY COVERS

HD4911AF

HD4911MAF


HC4911BC

SILK-SCREEN PRINTED KEY COVERS WITH SYMBOLS - 2 FUNCTIONS

Description		1 module Item	2 modules Item
ON - OFF - GEN	☐	HD4911AF	HD4911M2AF
	■	HC4911AF	HC4911/2AF
	■	HS4911AF	HS4911/2AF
ON - OFF	☐	HD4911AG	HD4911M2AG
	■	HC4911AG	HC4911/2AG
	■	HS4911AG	HS4911/2AG
UP - DOWN	☐	HD4911AH	HD4911M2AH
	■	HC4911AH	HC4911/2AH
	■	HS4911AH	HS4911/2AH
ON - OFF ADJUSTMENT	☐	HD4911AI	HD4911M2AI
	■	HC4911AI	HC4911/2AI
	■	HS4911AI	HS4911/2AI
LIGHT	☐	HD4911BA	HD4911M2BA
	■	HC4911BA	HC4911/2BA
	■	HS4911BA	HS4911/2BA
EXHAUST FAN	☐	HD4911BC	HD4911M2BC
	■	HC4911BC	HC4911/2BC
	■	HS4911BC	HS4911/2BC
TREBLE CLEF	☐	HD4911BE	—
	■	HC4911BE	—
	■	HS4911BE	—
+ up and – down	☐	HD4911AD	—
	■	HC4911AD	—
	■	HS4911AD	—

NON-SILK-SCREEN PRINTED KEY COVERS - 1 FUNCTION

	1 module Item	2 modules Item
☐	HD4915	HD4915M2
■	HC4915	HC4915/2
■	HS4915	HS4915/2

NON-SILK-SCREEN PRINTED KEY COVERS - 2 FUNCTIONS

	1 module Item	2 modules Item
☐	HD4911	HD4911M2
■	HC4911	HC4911/2
■	HS4911	HS4911/2

NOTE: ☐ **White** device ■ **Tech** device ■ **Anthracite** device ○ Neutral item

Lights and shutter automation

BMSE3001

BMSE3003

BMSO4003

0 882 40

F428

Item	LIGHTING/MOVEMENT SENSORS
○ **BMSE3001**	Passive infrared SCS sensor for the detection of movement and the lighting level. Ceiling flush mounted installation using springs or installation boxes; IP20 protection index; RJ45 clamp connection; 8 m (50 m2) diameter coverage area for a 2.5 m installation height, maximum installation height 6 m; 27 V d.c. power supply from bus, absorption 12 mA; regulation with basic/advanced remote control (item BMSO4003 and gateway item 0 882 40) or through configuration software, of the lighting level, from 5 to 1275 LUX, of the time delay, from 30 s to 255 h, and of the main operating parameters; Push&Learn pushbutton
○ **BMSE3003**	double technology SCS sensor: passive infrared for the detection of presence and the lighting level. Ceiling flush mounted installation using springs; IP20 protection index; RJ45 clamp connection; 8 m diameter (50 m2) infrared coverage area for a 2.5 m installation height, 11 mm diameter (95 m2) ultrasound coverage area for a 2.5 m installation height, maximum installation height 6 m; 27 V d.c. power supply from BUS, absorption 17 mA; regulation with basic/advanced remote control (item BMSO4003 and gateway item 0 882 40), or through configuration software, of the lighting level, from 5 to 1275 LUX, of the delay, from 30 s to 255 h, and of the main operating parameters; Push&Learn pushbutton

Item	CONFIGURATION GATEWAY
0 882 40	The gateway allows the programming and adjustment of the operating parameters of the various sensors: KNX, Lighting management and SCS. It allows to adjust the time settings, the brightness threshold and the detection sensitivity. It is possible to store, share, and prepare all product settings before going on site, and also to duplicate the parameters of a device to replicate them on another one. Using the NFC and IR communication protocols, with this configuration gateway the products can be configured before, during and after installation. The available functions are: - Product configuration in IR and NFC mode - Quick access to the product technical documentation - Saving and sharing the configuration parameters - Copy-paste of a configuration from one product to another - Diagnostic support - Adaptation of the brightness measurement of the detectors to their respective environments - Simple configuration of Legrand DALI detectors - Comparison of product parameters with the source file - Display of BAES block data (default settings, time of last autonomy) - Addressing of BAES blocks (for addressable systems) Assigning of the number of BAES blocks (evacuation warning light). The smartphone must be connected to the gateway via the 'BLUETOOTH' protocol, while the gateway communicates with the sensors using IR (infrared) technology. The gateway works with the "Legrand Close Up" App, available on the Android (Playstore) and iOS (Apple Store) platforms.

	CONFIGURATION REMOTE CONTROLS
○ **BMSO4003**	the basic configuration remote control, with IR transmitter, adjusts the main operating parameters of: Switch Sensor, Green Switch and SCS compatible sensors. Modification of parameters only possible for preset values, battery recharge not available

FEATURES OF THE LIGHTING/MOVEMENT SENSORS

SCS SENSORS	BMSE3001	BMSE3003
Installation	ceiling flush mounted	
Type of operation	AUTO/ECO/WALKTHROUGH	
Sensor technology	PIR	PIR+US
Power supply	27 V d.c. from Bus	
Protection index	IP20	
Coverage area at 2.5 m	Ø 8 m	Ø 11 m
Coverage angles (v/h)	90/360°	
Lighting level	5 lux - 1275 lux	
Switching off delay	30 s - 255 h 59 min 59 sec	
Factory adjustments	300 lux - 15 min	
Connection type	RJ45 connector	

	CONTACT INTERFACE
○ **3477**	basic module control interface with 2 independent contacts for the control of 2 actuators for single function loads, or 1 actuator for double function loads (shutters) – the inputs accepts two traditional switches or pushbuttons with NO and NC contact, or a traditional two-way switch, or interlocked pushbuttons
○ **F428**	as above - 2 DIN modules

	MEMORY MODULE
○ **F425**	module for saving the status of the actuators - to reset the light Automation system in case of blackout - 2 lowered DIN modules

NOTE: ○ Neutral item

MyHOME - COMMON DEVICES FOR ALL RANGES
Lights and shutter automation


3476

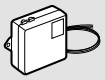

F401

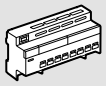

F411/1NC


F411U2

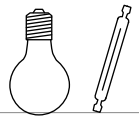
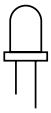
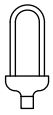
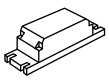
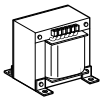
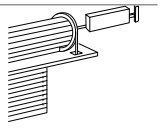

F411/4


BMSW1003

Item	BASIC MODULE ACTUATOR
○ 3476 	1 relay actuator - for single loads: 2 A resistive or incandescence lamps, 2 A cosφ 0.5 for ferromagnetic transformers - a traditional pushbutton with NO contact accepted in input
	ACTUATORS FOR SHUTTER MANAGEMENT
○ F401 	2-DIN actuator with 2 internal relays and 3 pushbuttons. In addition to monostable and bistable UP/DOWN operation, the actuator also places the shutter in a stored (PRESET) position - to be combined with control devices item H/LN4660M2, item AM5860M2
	ACTUATOR FOR CENTRALISATIONS
○ F411/1NC 	actuator with 1 two-way NC relay for single loads 16 A resistive, 10 A for incandescence lamps and 4 A for fluorescent lamps. On switching on the device always has the contact closed (ON status) and the contact is opened with an OFF command. In this way there would be no voltage from the BUS, the device would remain in the ON state, keeping the load on – 2 DIN modules

Item	ACTUATORS FOR CENTRALISATIONS
○ F411U2	actuator with 2 independent relays – for single and double loads: 10 A resistive, 460 W for reducer motors, cosφ 0.5 for ferromagnetic transformers and 500 W for fluorescent lamps - logic relay interlock via configuration - it has ¨Zero crossing¨ technology - 2 DIN modules
○ F411/4	actuator with 4 independent relays - for single, double or mixed loads: 2 A resistive, 2 A incandescence lamps, 460 W for reducer motors, 2 A cosφ 0,5 for ferromagnetic transformers and 70 W for fluorescent lamps - logic relay interlock via configuration - 2 DIN modules
○ BMSW1003 	ON/OFF actuator, 4 independent outputs with maximum load 16 A at 230 Va.c., clamp connection and RJ45, IP20 protection index, power supply 100/240 Va.c. 50/60 Hz, pushbuttons for load direct control - zero-crossing function - 6 DIN modules
○ BMSW1005 	ON/OFF actuator, "Zero Crossing" technology, 8 independent outputs with maximum load 16 A at 230 V a.c., clamp connection, IP20 protection index, power supply100/240 V a.c. 50/60 Hz, pushbuttons for load direct control - 10 DIN modules

LOADS THAT CAN BE DRIVEN (230 Va.c. 50/60 Hz)

Actuators	Type						
	 Energy saving incandescence and halogen lamps	 LED lamps	 Linear fluorescent lamps [1]	 Compact fluorescent lamps	 Electronic transformers [3]	 Ferromagnetic transformers [2] [3]	 Reducer motors for shutters [4]
3476	2 A 460 W	40 W Max 1 lamp	- -	40 W Max 1 lamp	- -	2 A cosφ 0,5 460 VA	- -
F401	-	-	-	-	-	-	2 A 250 Va.c.
F411/1NC	10 A 2300 W	500 W Max 10 lamps	4 A 920 W	500 W Max 10 lamps	4 A 920 W	4 A cosφ 0,5 920 VA	- -
F411U2	10 A 2300 W	500 W	4 A 920 W	500 W	920 W	4 A cosφ 0,5 920 VA	2 A 460 W
F411/4	2 A 460 W	70 W Max 2 lamps	0.3 A 70 W	70 W Max 2 lamps	0.3 A 70 W	2 A cosφ 0,5 460 VA	2 A 460 W
BMSW1003	16 A 3680 W	2.1 A 500 VA	10 X (2 X 36 W) 4.3 A	1150 W 5 A	16 A 3680 W	16 A 3680 W	- -
BMSW1005	16 A 3680 W	2.1 A 500 VA	4.3 A 10X2X36 W	5 A 1150 VA	16 A 3680 W	16 A 3680 W	- -

Notes:
1) Power factor corrected fluorescent 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 100 VA ferromagnetic transformer with yield 0.8, the effective power of the load will be 125 VA.
3) The transformer must be loaded at its rated power and however never less 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 250 VA transformer with 5 50W spotlights connected rather than use 5 50 VA transformers in parallel each with a 50 W spotlight.
4) The ▭ symbol on the actuators refers to the shutter reducer motors.

NOTE: ○ Neutral item

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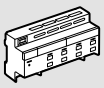
Lights and shutter automation


F413N


F429

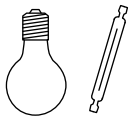
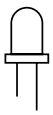
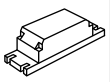
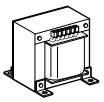
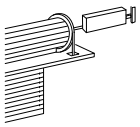

F416U1


F418U2

Item	DIMMERS FOR CENTRALISATIONS
○ **F413N** 	1-output dimmer to supply fluorescent lamps or LED sources with input 1-10 V for single loads up to 2.5 A at 230 Va.c. – type of screw connection - power supply 27 Vd.c. – absorption 30 mA – max 10 ballast that can be connected (clamps 1-2) - with pushbutton for load direct control - version for fastening on DIN rail - 2 modules
○ **BMDI1002** 	1/10V dimmer, "Zero Crossing" technology, 4 outputs with maximum load 4.3 A at 230 V a.c., clamp connection, IP20 protection index, power supply100/240 V a.c. 50/60 Hz, pushbuttons for load direct control - 10 DIN modules
○ **F429** 	DALI dimmer with 8 independent outputs for the connection of up to 16 DALI reactors for each output – 230 V a.c. power supply 50/60 Hz; 110 - 240 Vd.c. – absorption 5 mA - with pushbutton for load direct control - version for fastening on DIN rail - 6 modules

Item	MULTI-LOAD DIMMERS FOR CENTRALISATIONS
○ **F416U1** 	Multi-load dimmer, 1 output with maximum load 4.3 A at 230 Va.c., clamp connection and RJ45, IP20 protection index, power supply 100/240 Va.c. 50/60 Hz, pushbutton for load direct control - 6 DIN modules
○ **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. Possibility of parallelisation of the two channels to increase the maximum power which can be managed. power supply 27 Vd.c., absorption 18 mA - version for fastening on DIN rail - 4 modules

LOADS THAT CAN BE DRIVEN (230 Va.c. 50/60 HZ)

Actuators	Type						
	 Energy saving incandescence and halogen lamps	 LED lamps	 Linear fluorescent lamps [1]	 Compact fluorescent lamps	 Electronic transformers [3]	 Ferromagnetic transformers [2] [3]	 Reducer motors for shutters [4]
BMDI1002	Dimmer for ballast - 4 x 4.3 A outputs - 4x 1000VA@ 230 Vac - 4x500VA@ 230 Vac						
F413N	- -	- -	2 A 460 W [5] Max 10 ballast, type T5, T8, compact or driver for LED	- -	- -	- -	- -
F416U1	4.3 A 40 - 1000 W	- -	- -	- -	4.3 A 40 - 1000 W	4.3 A 40 - 1000 W	- -
F418U2	2x300 W	2x300 VA	-	2x300 VA	2x300 VA	2x300 VA	-
F429	SCS/DALI dimmer interface - 8 x16 ballast						

Notes:
1) Power factor corrected fluorescent 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 100 VA ferromagnetic transformer with yield 0.8, the effective power of the load will be 125 VA.
3) The transformer must be loaded at its rated power and however never less 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 250 VA transformer with 5 50W spotlights connected rather than use 5 50 VA transformers in parallel each with a 50 W spotlight.
4) The ⊣⊢ symbol on the actuators refers to the shutter reducer motors. 5) Only compatible with lamps with 1/10 V ballast.

NOTE: ○ Neutral item

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Temperature Control - Energy Management and consumption display


F430R8


F430R3V10


F430V10


3454


3523


F521


F522


F523


F524


3522N

Item		
		ACTUATORS FOR VALVE CONTROL
○ **F430/2**		actuator with 2 independent relays – for single and double loads: 6 A resistive, 2A motor driven valves and pumps - configuration based logic relay interlock - 2 DIN modules
○ **F430/4**		actuator with 4 independent relays - for single, double or mixed loads: 4 A resistive, 1 A motor driven valves, pumps and fan coils - configuration based logic relay interlock - 2 DIN modules
○ **F430R8**		actuator with 8 independent relays for the control of on-off valves, motorised valves (open-close and three points), pumps and fan coils with 2 and 4 tubes - 4A resistive, 1A motor valves, pumps and fan-coils- SCS-bus connection - 4 DIN modules
○ **F430R3V10**		actuator with 3 independent relays and 2 x 0-10 Volts outputs for the control of fan coils with 2 and 4 tubes with proportional 0-10 Volt valves - 4A resistive, 1A fan coil - SCS-BUS connection - 4 DIN modules
○ **F430V10**		actuator with 2 x 0-10 Volt outputs for the control of 0-10 proportional valves - SCS-BUS connection - 2 DIN modules
		TEMPERATURE PROBE WITHOUT DISPLAY
○ **3454**		Temperature probe in basic module with wired sensor - to be associated to the temperature sensor item 3457 and Vantage probe item 8051
		ACCESSORIES
○ **3457**		Temperature probe to be associated to the probe item 3454
		IP DATA CONCENTRATOR - ENERGY DATA LOGGER
○ **F524**		Device for the central management of energy consumption data collected using F520 toroid meters, F521 load control central unit or 3522N pulse counter interface. The data can be displayed using appropriate integrated web pages, connecting the device to a network through the Ethernet port. It gives the possibility of configuring several tariffs, and to download line data, perform sums and subtraction, as well as multiplications by a factor. The device has a microSD slot for the backup of the recorded data and OPENWebNet controls for the display of consumptions. Version for fastening on DIN rails - 1 module - Power supply from BUS 27V

Item		
		CONSUMPTION DISPLAY
○ **F520**		meter for the measurement of electricity on a maximum of 3 lines, by connecting 3 toroids to the appropriate inputs. The data collected and processed can be seen using the Home+Control app. Version for fastening on DIN rail - 1 module. The device is fitted with 1 toroid.
○ **3523**		Additional electricity meter toroid, item F520 and for actuator with sensor, item F522 for the measurement of the earth leakage current. Cable length 400 mm.
○ **3522N**		Pulse counter interface for the detection of data from meters (water, gas, etc.) with pulse output. The measured values are visible using the Home+Control app. Basic module execution for hidden installation. Power supply from bus 27 V.
		LOAD CONTROL MANAGEMENT
○ **F521**		central unit for the management and control of the actuators of the load control system, to prevent the risk of detachment of the limiter of the electricity supplier. The central unit manages up to 63 loads, a contract power between 1.5 and 18 kW, and tolerance up to +/- 20%. It integrates an electricity meter for the controlled line. Version for fastening on DIN rail - 1 module. The device is fitted with 1 toroid.
○ **F522**		actuator with integrated current sensor for the measurement of the controlled load consumptions. 1 relay - 10 A for incandescence lamps and 4 A for fluorescent lamps or ferromagnetic transformers, and 500 for compact fluorescent and LED lamps - Bistable relay with zero crossing for the Automation and/or Load control management functions. Version for fastening on DIN rail - 1 module. Earth leakage control by connecting the additional toroid, item 3523.
○ **F523**		1 relay actuator - for incandescence lamps and 4 A for fluorescent lamps or ferromagnetic transformers, and 500 W for compact fluorescent and LED lamps - bistable relay with zero crossing for the Automation and/or Load control management functions. Version for fastening on DIN rail - 1 module.

NOTE: ○ Neutral item

MyHOME - COMMON DEVICES FOR ALL RANGES
Common accessories and devices

E56

E49

L4669
L4669/500
L4669HF

336904

Item		POWER SUPPLIES
○ E56		power supply with input voltage 110 – 240 Vac @ 50 – 60 Hz. The output provides two power supplies in very low safety voltage (one of 27V d.c 1.2A on the SCS terminals, one of 28,5V d.c. on terminal 1 - 2) to be used alternately and NOT at the same time. It can also be used as additional power supply (1 - 2 output) for the local power supply of the automation devices (in this case it is not possible to use other outputs). The device is electronically protected against overload and short circuit. It is a SELV double insulation safety device - Size 6 DIN modules.
○ E49		compact power supply - input 230 Va.c. - output 27 Vd.c. - maximum current delivered 600 mA - 2 DIN modules

		SCENARIO MODULE
○ F420		device to save 16 scenarios for the Automation, Sound system, Temperature control and Video door entry applications - 2 DIN modules

		VARIOUS ACCESSORIES
○ 3515		spare removable clamp
○ 3508BUS		removable clamp for BUS connection - width 3.81 mm
○ 3508U2		removable clamp 2 poles
○ 3508U3		removable clamp 3 poles

Item		GUARANTEE EXTENSION VOUCHERS
○ MHBASIC5A		voucher for the guarantee extension for up to 5 years for Light and Automation, Energy management, Sound and NUVO, Video door entry and Remote control systems
○ MHPLUS5A		voucher for the guarantee extension as above, but also valid for Temperature control and MyHome_screen 3.5 touch screen devices
○ MHFULL5A		voucher for the guarantee extension as above, but also valid for MyHome_screen 10 touch screen devices

		CONNECTION CABLES
○ L4669		sheathed pair made up of 2 flexible wires with unshielded plaited sheath - insulation 300/500 V - complies with standards CEI 46-5 and CEI 20-20 - coil length 100 metres
○ L4669/500		as above - in 500 m coils
○ L4669KM1		as above - reel lenght 1000 m (1)
○ 336905		as above - low toxicity cable without halogens - ideal for application in environments where fire hazard safety is critical - coil length 200 metres
○ 336904		specific cable with 2 twisted conductors. It can be installed in underground piping, in accordance with standards (CEI 20-13 and CEI 20-14). It ensures the best performance in video systems (higher distance between EP and Handset when compared with other cables). 200 m coil

System	Cable	
	L4669 L4669/500 L4669KM1 336905	336904
Automation	●	●(1)
Energy Management/Consumption Display	●	●(1)
Temperature control	●	●(1)
Video door entry system		●

NOTE (1): for systems underground cable sections

NOTE: ○ Neutral item

Do you need some technical information about the products?

Please visit:

https://catalogue.bticino.com/general_catalogue/solution-for-residential-and-tertiary-building/my-home-_-home-automation-system

APPENDIX
Additional information

USE OF CLASSE 300EOS WITH NETATMO AS MAIN AND SECONDARY INTERNAL UNIT

Functions	Main	Secondary
Alexa voice controls (general functions)	X	X
Alexa controls for video door entry system (answer, camera viewing, etc.)	X	
Alexa controls for Legrand/Netatmo/ BTicino and Security Smart Home devices	X	X
Link to the Home + Security app	X	
Answer a video door entry system call	X	
Live viewing of the Netatmo camera	X	
Smart Home function management	X	X
Link to the Home + Control app	X	

Note (*): up to 5 devices as internal units and up to 10 as Smart Home displays

DIFFERENCES BETWEEN MYHOMESERVER1 AND THE CLASSE 300EOS WITH NETATMO INTERNAL UNIT

	MyHOMEServer1	Classe 300EOS
Technology	BUS	BUS
Connection	Ethernet	Ethernet + Wi-Fi
Number of manageable devices	max. 175	
Number of scenarios created in Home + Project	max. 50	
Number of scenarios created and that can modified by the user in Home + Control	more than 50 including scenarios, scheduled actions, automations and smart notifications	
Installation	DIN switchboard	Wall mounted

NOTES

NOTES

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