

# GUEST ROOM MANAGEMENT SYSTEM

Guide for design and installation



INTEGRATED SOLUTIONS  
WITH SCS-BUS  
TECHNOLOGY



**GUEST ROOM  
MANAGEMENT SYSTEM**

**A complete  
range meeting  
all specific needs**

BTicino offers a specific system solution for all needs. Designed to guarantee the best welcoming and control service without overlooking the environmental aspect, Guest Room Management System brings together two aspects: the supervision, managed by Hotel personnel, and the management of the room by the Customer. Two separate worlds, that are however in constant communication.

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#### INSIDE THE ROOM



01

- Access control
- Temperature management (heating and cooling)
- Lighting control
- Automation management
- Structured cabling devices
- Traditional devices (energy sockets, etc...)

#### IN THE COMMON AREAS FOR CUSTOMERS



02

- CCTV
- Temperature management (heating and cooling)
- Access control
- Lighting control
- Automation management
- Sound system
- Data network management
- Traditional devices (energy sockets, etc...)

**From access control to home automation, BTicino offers all the technological solutions for the hotel sector**

# A SOLUTION FOR HOTELS

Specific products and systems for the various areas

GUEST ROOM MANAGEMENT

MANAGEMENT OF THE COMMON AREAS (HALL, RECEPTION, CORRIDORS, CUCINE, CONFERENCE ROOMS, ETC...)

SUPERVISION OF THE HOTEL FROM THE RECEPTION USING SPECIFIC SOFTWARE

INTEGRATION OF THE SCS-BUS SYSTEM WITH SOLUTIONS AND SYSTEMS OF OTHER BRANDS

## AT THE RECEPTION



03

THE SOFTWARE PROVIDES:

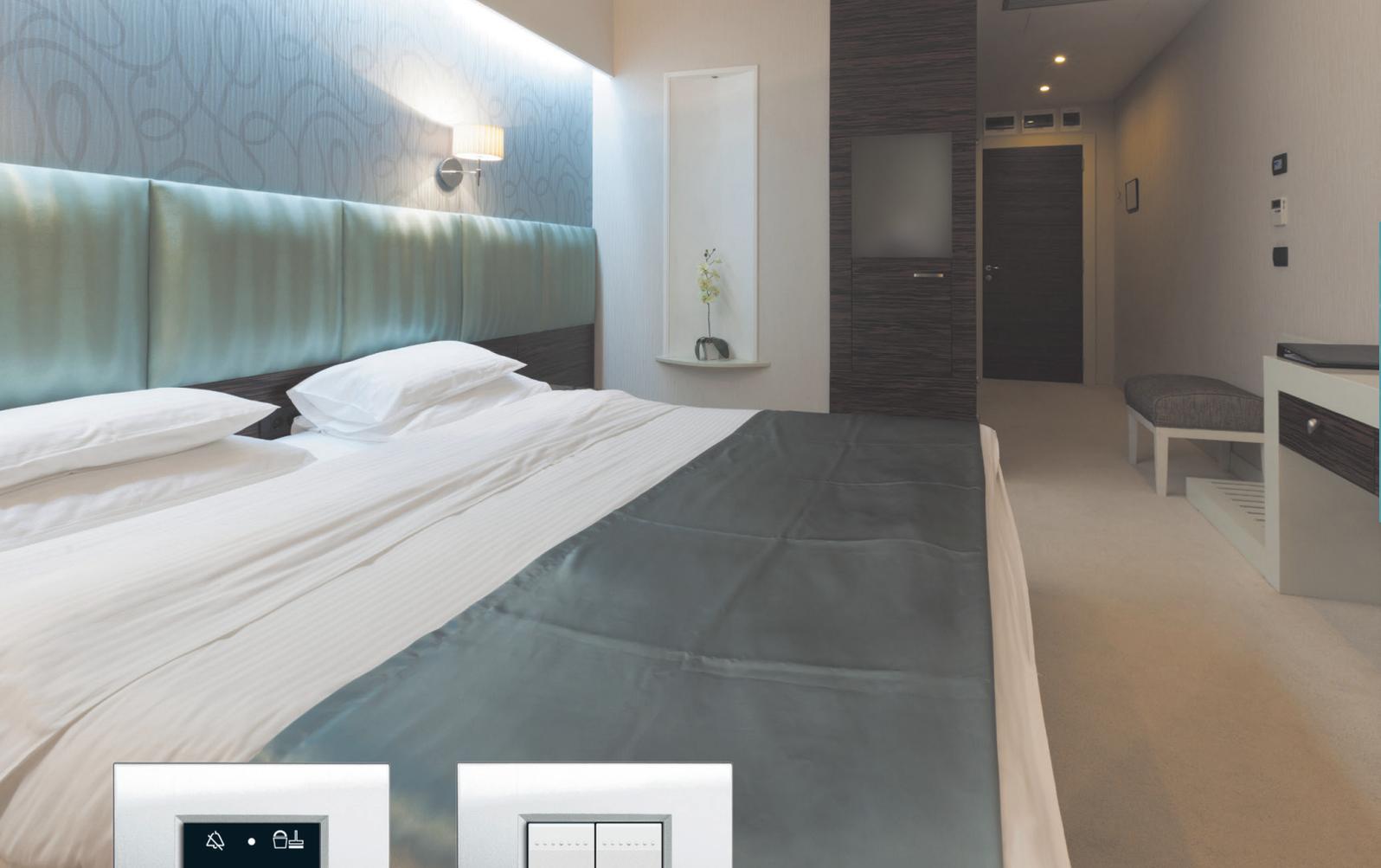
- Supervision and management of functions installed in the hotel
- Control and management of the functions inside the rooms and the common areas
- Management of the room status (free, occupied, customer present, etc.)
- Access control management: programming of key cards and saving of accesses
- Management of bookings using specific software (PMS)

## IN THE REST OF THE BUILDING



04

- Energy transformation
- Energy distribution
- Service continuity (UPS)
- Energy management (measurement)
- VDI (video data) infrastructure
- Temperature management (heating and cooling).
- CCTV
- Access control
- Lighting control
- Automation management



DND AND MUR NOTIFICATIONS:  
DND (do not disturb)  
MUR (make up the room)



DND AND MUR CONTROL:  
DND (do not disturb)  
MUR (make up the room)



8-KEY CONTROL



DIGITAL THERMOSTAT



### IMMEDIATE COMFORT

Thanks to the new MyHOME devices  
- 8-key control (customisable)  
- digital thermostat,  
installed at the side of the bed,  
with one single touch it is possible  
to create the desired atmosphere,  
adjusting the light, the temperature,  
and the shutters.

UP TO  
**30%**  
SAVINGS

## COMFORT

### MANAGEMENT OF USERS

Guest Room Management System enables the customer to be perfectly in tune with the room, thanks to a range of devices used to create the desired atmosphere as far as lights, music, and temperature are concerned.

## RESPECT OF THE ENVIRONMENT

### ENERGY MANAGEMENT

Guest Room Management System gives the hotel establishment the possibility of reducing energy consumptions thanks to the possibility of disabling the devices inside the room when the customer is absent.

## SAFETY

Thanks to the RFDI technological devices, maximum safety in the control of accesses to rooms and other zones.

## ENTERTAINMENT

A range of products dedicated to Audio/Video connections, to the recharge of technological devices (Smart-phone, Tablet, etc.), and to the transmission of Wi-Fi data, enables to provide the desired level of entertainment and enjoyment.

## SAFETY AT THE TOP

Protected shaver socket, step marker lamps for the night, and bathroom pull cords. Guarantee of maximum safety at any time during the stay.



A/V SOCKETS

USB CHARGER SOCKET



STEP MARKER LAMPS



KEY CARD READER OUTSIDE THE DOOR

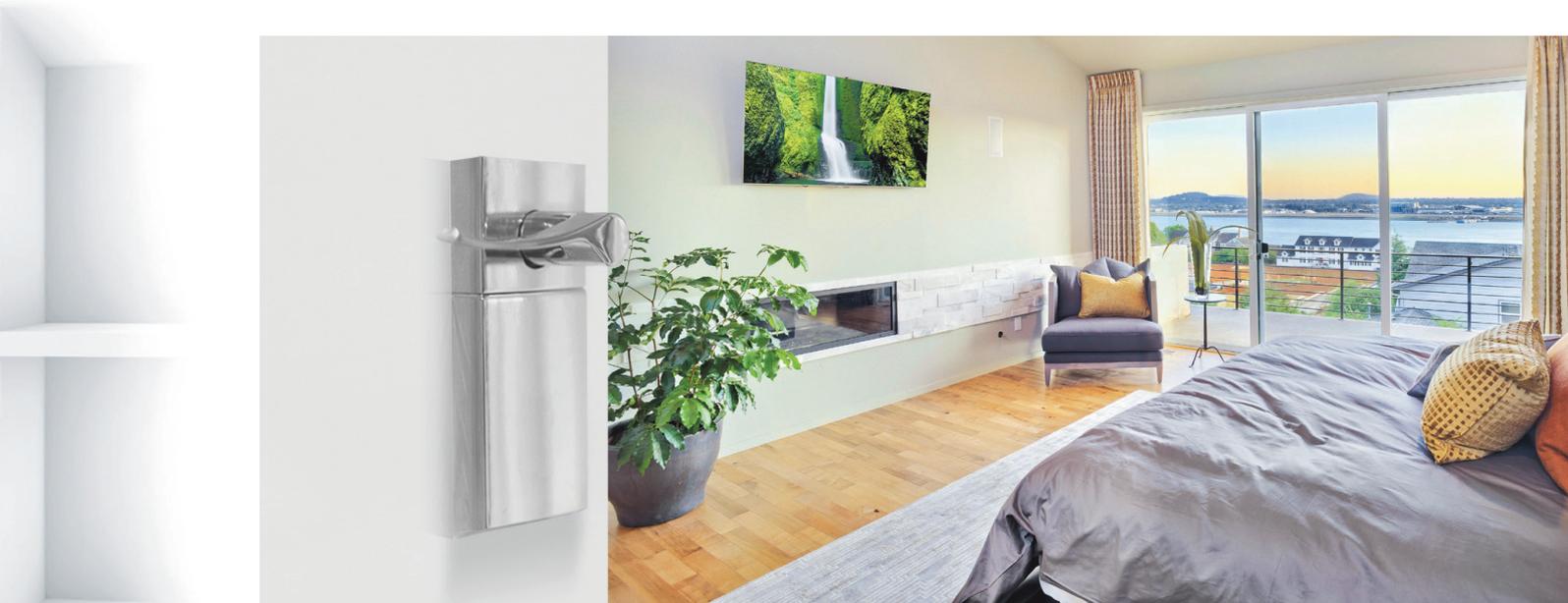
# THE FUNCTIONS IN THE ROOM

**The complete system,  
for maximum efficiency  
of the whole hotel irrespective  
of the technology selected**

Guest Room Management System is a solution for the management and supervision of hotel and welcoming establishments. Designed to guarantee the best welcoming and control service without overlooking the environmental aspect, Guest Room Management System brings together two aspects: the supervision, managed by Hotel personnel, and the management of the room by the Customer. Two separate worlds, that are however in constant communication.



# THE SUPERVISION: the management of the **ROOMS** and the **COMMON AREAS**



The Guest Room Management System offer gives the possibility of supervising and controlling in real time the status of the rooms, and interact with them.

Using the supervision software installed in the PC of the reception, it is possible to interact with the following room parameters:

- Presence of guests
- Temperature display and modification of the adjustment values
- Programmed scenario activation
- Alarm notifications and management of the contacts (window, door, ...)

The software gives the possibility of managing and programming the key cards with RFID (Mifare) technology for access to rooms and common areas.

# THE MAIN SYSTEM COMPONENTS

## **bticino** SCS SOLUTION



### In the corridor - outside the door



#### KEY CARD READER

RFID (Mifare classic ISO14443) technology, with DND (do not disturb) and MUR (make up the room) notifications, and bell pushbutton



#### KEY CARD

RFID (Mifare classic ISO14443 type A) technology, credit card format, for access to the rooms



#### DND - MUR NOTIFICATIONS

DND (do not disturb)  
MUR (make up the room), and bell pushbutton

### Inside the room



#### DND AND MUR CONTROL

DND (do not disturb)  
MUR (make up the room)



#### KEY CARD SWITCH

with possibility of RFID technology recognition, for the activation of the functions inside the room



#### DIGITAL THERMOSTAT

to set and adjust the temperature simply and intuitively inside the room.



#### 8-KEY CONTROL

to recall the scenarios (lighting, automation, climate, ...) inside the room.

## At the room switchboard



### IP SCENARIO MODULE

manages and saves the scenarios (max. 50) of the room or common zone, and acts as interface with the rest of the system and the functions of the Hotel. It connects to the rest of the hotel using the Ethernet network (RJ45).



### DIN MODULAR DEVICES

for management of the functions inside the rooms

## At the reception



### SUPERVISION SOFTWARE

Using one or more PC, it is possible to control the status of the rooms with the corresponding notifications, and manage the available functions. The software also perform functions connected with the programming of the key cards.

2 types of license available:

- Management of up to 20 rooms or common areas
- Management of over 20 rooms or common areas

The key cards must have the following features:

- RFID Mifare classic ISO14443 type A

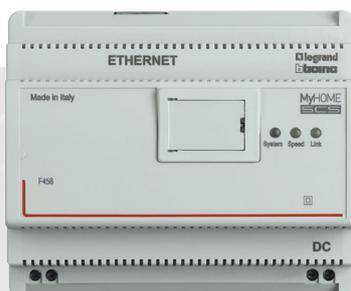
### KEY CARD PROGRAMMER

to connect to the reception PC through USB connection.



### IP SERVER

to be used in systems with over 100 rooms or common zones (over 100 MH201 installed).



# INTEGRATION WITH SOLUTIONS OF OTHER BRANDS

SPECIFIC DRIVER

DRIVER

SCS-BUS SYSTEM

DRIVER MANAGER



F459



**The SCS-BUS solution can be integrated with systems and products of other brands.**

BTicino has developed and makes available the new **DRIVER MANAGER** integration platform, based on the F459 device and on various drivers.

It can manage systems or products of other brands. It is now possible, by means of the SCS-BUS devices to control, for example, the VRV, VRF and air conditioning systems of the main producers on the market.

The **DRIVER MANAGER** device can interface the SCS-BUS system with the systems of other brands by means of specific drivers tested in collaboration with the various companies. Contact the System Integration Service to check the feasibility of specific integrations and to request the licence needed to use the Driver manager (Toll free number 800.837035)

**OTHER BRAND SOLUTIONS**

- TEMPERATURE CONTROL
- AUTOMATION
- SECURITY
- SAFETY
- OTHER

**EXAMPLES**



**Mitsubishi Electric**  
VRF City Multi system



**Hitachi**  
VRF system

For more information please contact the System Integration Service (Toll free number 800.837035)

# CUSTOMISATION



Several shapes and materials to conceive and design your Hotel.

## Axolute and Axolute<sup>Air</sup>



Thermostat completed with the **Axolute** square cover plate



Shaver socket available in three colours: white, tech and anthracite. The tech version is used together with the **Axolute Air**.

# OF THE OFFER



## Livinglight and Livinglight Air

Countless finishes in the versions: Living International, Round, Square and Air.



# CUSTOMISATION OF COVER PLATES, KEY CARDS AND GLASS CONTROLS

To further improve the aesthetic value of the offer, it is possible to customise both the cover plates and the key cards with the logo of the Hotel.



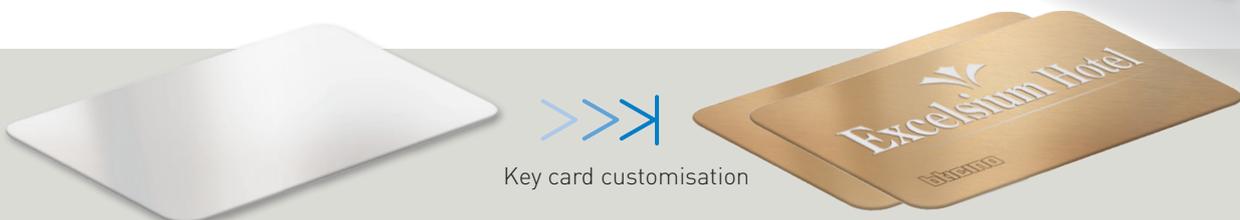
White key card switch with **Livinglight Air** cover plate.



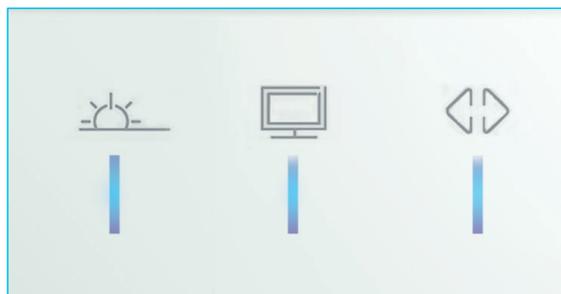
Anthracite 8-key control used with the **Axolute** cover plate



Key card switch available in three colours: white, tech and anthracite. The tech version is used together with the **Axolute** elliptical cover plate.



Key card customisation



The glass controls can be customised with symbols by means of silk screen printing



White glass control with 6 capacitive touch keys.



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## GENERAL RULES FOR INSTALLATION

# PERFORMANCE AND CONFIGURATION

**The hotel supervision system must be installed in a dedicated LAN network or in a dedicated VLAN**

### SYSTEM PERFORMANCE:

- Number of zones (rooms and common areas) which can be made = 500 MAX.
- Number of supervision PC which can be installed = 10 MAX
- Install only one MH201 per zone (room or common area).
- Install only one F458 IP server on the same network
- Install up to 9 thermostats, 8 outside-door readers and one key card switch per room or common area.

### DEVICE CONFIGURATION:

- The IP Server F458 devices and the MH201 IP scenario module must be configured using the MyHOME\_Suite software, which can be downloaded free of charge from the website:

[www.homesystems-legrandgroup.com](http://www.homesystems-legrandgroup.com).

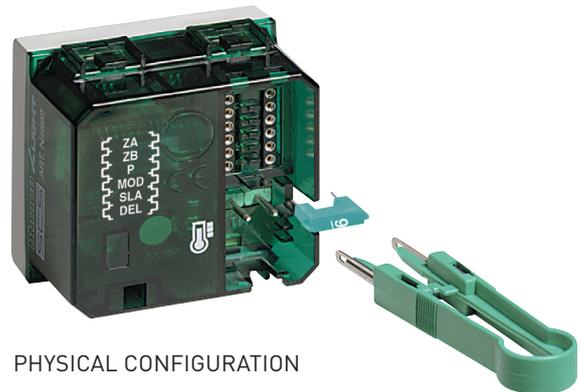
- While all the other devices in SCS-BUS technology can be configured in two different modes:

#### - Physical configuration

This is completed using the green and blue configurators, which must be connected to the appropriate sockets found on the devices.

#### - Software configuration

This is performed using a PC with the appropriate MyHOME\_Suite application installed. This solution has the advantage of offering many more options when compared with the physical configuration.



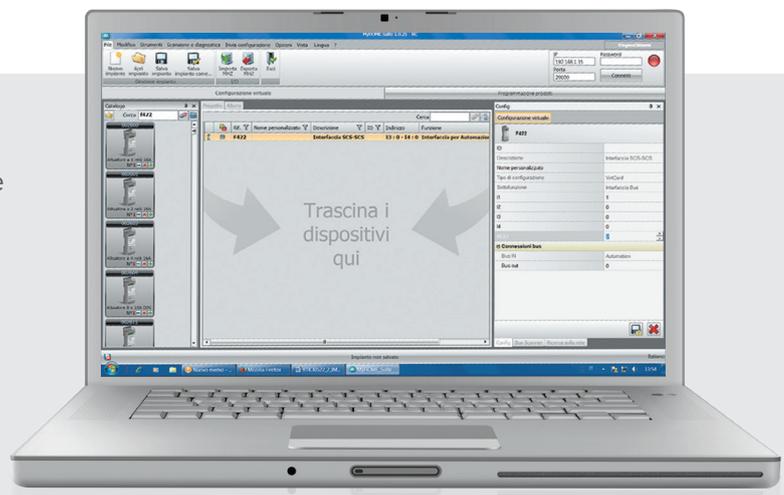
PHYSICAL CONFIGURATION

The software can be downloaded free of charge from the website:

[www.homesystems-legrandgroup.com](http://www.homesystems-legrandgroup.com)



Download the software  
free of charge  
(QR code)



SOFTWARE CONFIGURATION

# “Hotelsupervision” SUPERVISION SOFTWARE

The HotelSupervision software has been purposely designed for the management and supervision of the hotels. All the management operations can be performed from reception, from where it is possible to have a complete view of what happens in the individual rooms and the common areas.

Some functions:

- Presence of guest display.
- Temperature management with direct control of thermostats, but giving guests the possibility of adjusting the temperature within the set limits.
- Key card management with the possibility of limiting access to certain areas of the hotel and monitoring of movements using each key card.
- Control of different types of alarms and notifications from rooms or common areas.
- Control of DND or MUR type notifications (do not disturb and make up room).  
The use of different icons and colours helps the operator to immediately identify the status of the room.

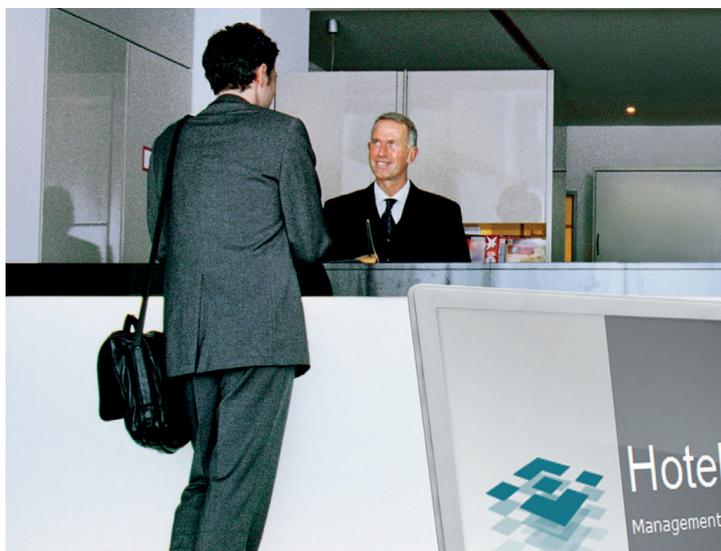
The software can be activated using two types of license:

- **3544SW**  
**Management and supervision of up to 20 rooms or common areas**
- **3546SW**  
**Management and supervision of over 20 rooms or common areas**

The software can be downloaded from the website:

[www.homesystems-legrandgroup.com/  
BtHomeSystems/productDetail.action?productId=003](http://www.homesystems-legrandgroup.com/BtHomeSystems/productDetail.action?productId=003)

Download the desired version of the HotelSupervision software (QR code)



## GENERAL RULES FOR INSTALLATION

# MAXIMUM DISTANCES AND ABSORPTIONS

In this chapter you will find all the details for correct installation of an SCS BUS system:

- SELV classification
- Maximum distances and absorptions
- Maximum number of configurable devices

For the purpose of the above calculations, refer to the TECHNICAL DATA found in the chapter TECHNICAL SHEETS.

In calculating the absorption it will be necessary to also consider the current available based on the length of the cable.

### SELV classification

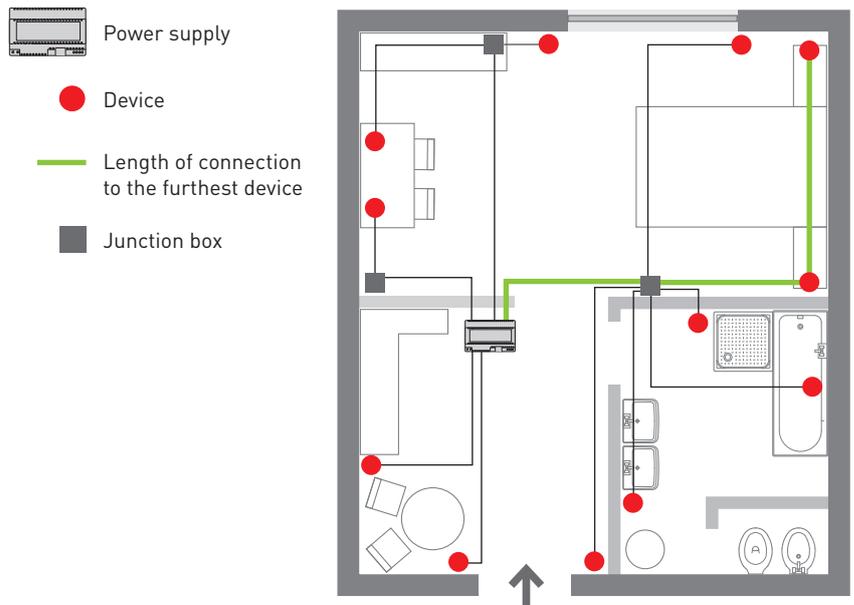
The Automation system belongs to the SELV (Safety Extra Low Voltage) class, as it is powered with  double safety insulation independent devices not connected to the ground, and has a maximum operating voltage of 27 Vdc, in accordance with CEI EN 60065; it therefore can be compared to a SELV source as described at point 411.125 of CEI 64-8-4. Compliance with SELV classification is only guaranteed subject to full compliance with current installation regulations, and with the general installation regulations for the individual devices and cables making up the system outlined by BTicino.

### Maximum distances of the BUS cable and absorptions

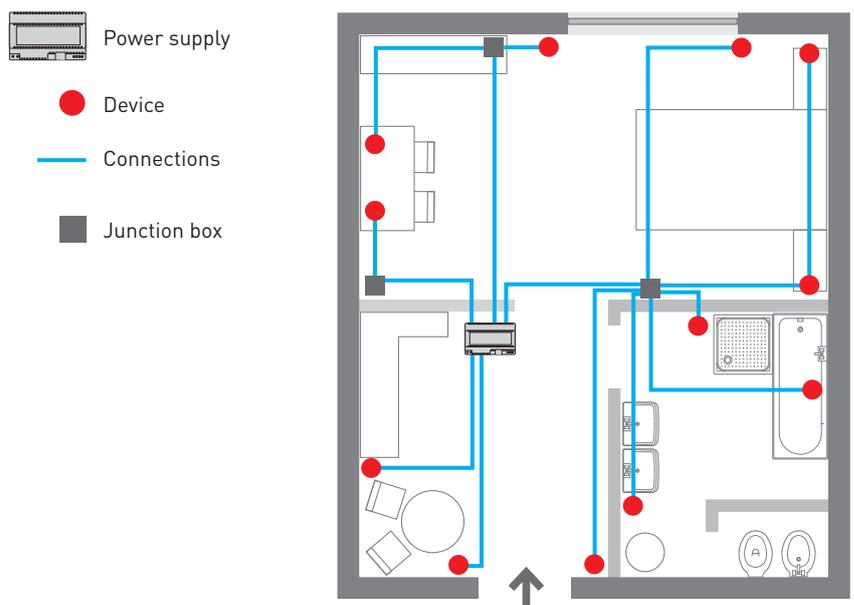
The maximum number of devices that can be connected to the BUS depends on the total absorption of the same and the distance between the point of connection and the power supply. The power supply can supply up to 1200 mA or 600 mA; the maximum number of devices that can be installed will therefore depend on the sum of their individual absorptions.

During sizing comply with the following rules:

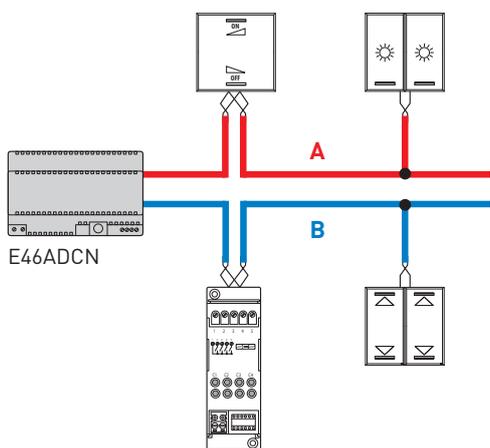
- 1 THE CONNECTION LENGTH BETWEEN THE POWER SUPPLY AND THE FURTHEST DEVICE MUST NOT EXCEED 250 m.**



- 2 THE TOTAL LENGTH OF THE CONNECTIONS MUST NOT EXCEED 500 m (CABLE EXTENDED).**



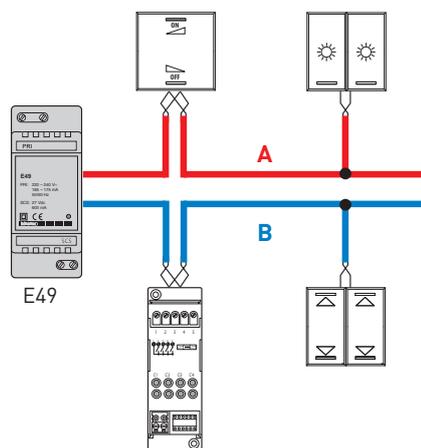
**3** FOR OPTIMUM DIVISION OF THE CURRENTS ON THE BUS LINE IT IS RECOMMENDED THAT THE POWER SUPPLY IS INSTALLED IN AN INTERMEDIATE POSITION.



With power supply E46ADCN:

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

Maximum current provided by the power supply: 1200 mA.



With power supply E49:

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

Maximum current provided by the power supply: 600 mA.

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

FOR MORE INFORMATION ON THE DESIGN AND INSTALLATION OF THE SCS-BUS SOLUTIONS SEE THE SPECIFIC MyHOME TECHNICAL GUIDE

[www.catalogo-sfogliabile.bticino.it/myhomegb/](http://www.catalogo-sfogliabile.bticino.it/myhomegb/)



Consult the MyHOME specific catalogue (QR code)

# MAXIMUM DISTANCES AND ABSORPTIONS

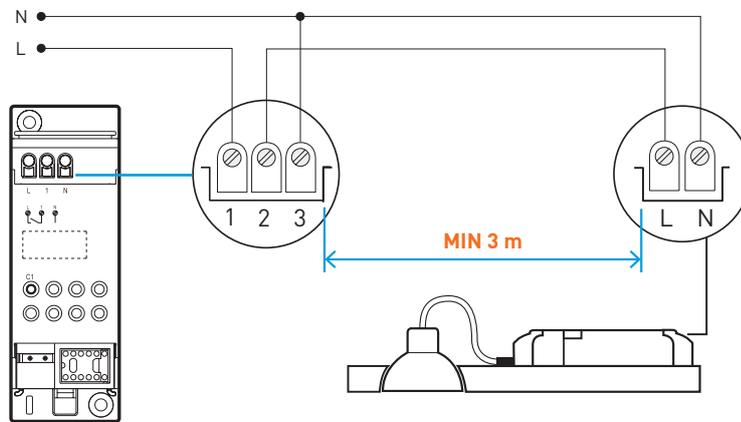
## Maximum distances for the connection of actuators based on the load

In order to correctly manage certain types of loads, it is necessary to comply with some installation requirements, applicable to all the actuators used.

Fluorescent lamps: the length of the connection cable between the actuator and the load must not be less than 3 m. Do not connect more than 15 actuators controlling this type of lamps to the same line.

Metal halide and sodium vapour lamps: in addition to the indications provided for fluorescent lamps, also pay attention to the instructions for use for these lamps (for example avoid switching on when hot), do not connect dimmers to the same line of these lamps, keep the BUS

### EXAMPLE OF CONNECTION WITH ITEM F411U1



**WARNING:** Refer to the technical data listed in the technical sheets for each actuator.

line and the power line for these types of lamps separated by at least one metre.

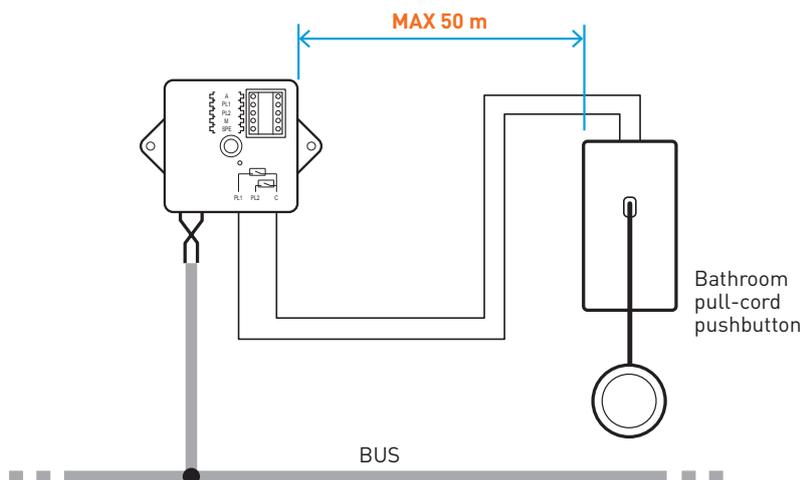
Three-phase networks: in case of three-phase networks, check the

balancing of the phases, and the quality of the network. Failure to comply with the above requirements can compromise the correct operation of the devices.

## Maximum distance for the connection of the contact interface

The length of the connection between the interface (basic or in DIN module) and the traditional type device must not exceed 50 m. Several pushbuttons may be connected to the interface inputs.

### MAXIMUM DISTANCES FOR THE CONNECTION OF THE CONTACT INTERFACE

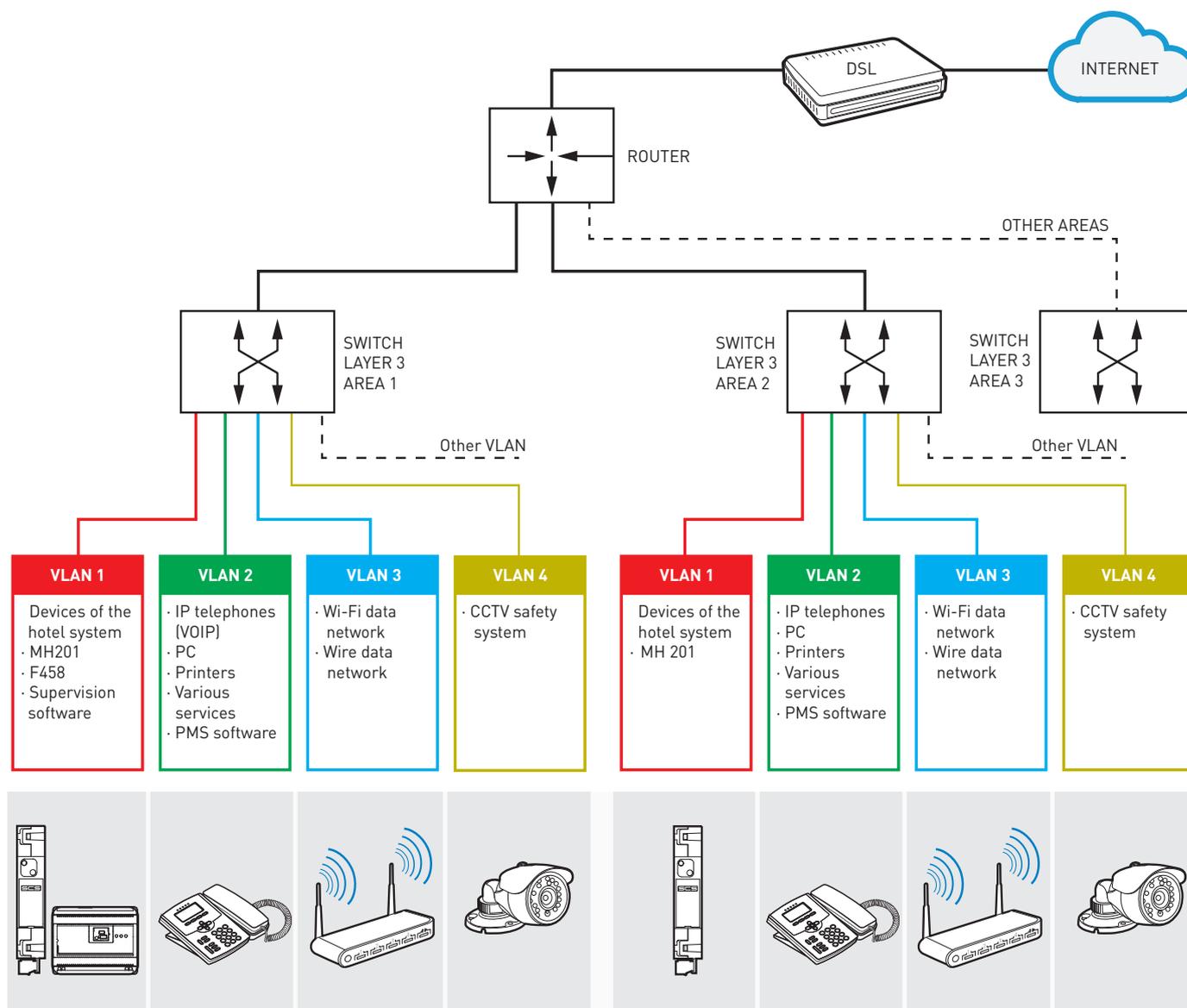


# RULES ON THE VLAN NETWORK INFRASTRUCTURE

Below suggestions are made on how to organise the VLAN networks inside the Ethernet network infrastructure in the hotel.

The services and devices in the hotel should be grouped into sub-networks (VLAN), as suggested in the example below.

## VLAN = Virtual Local Area Network

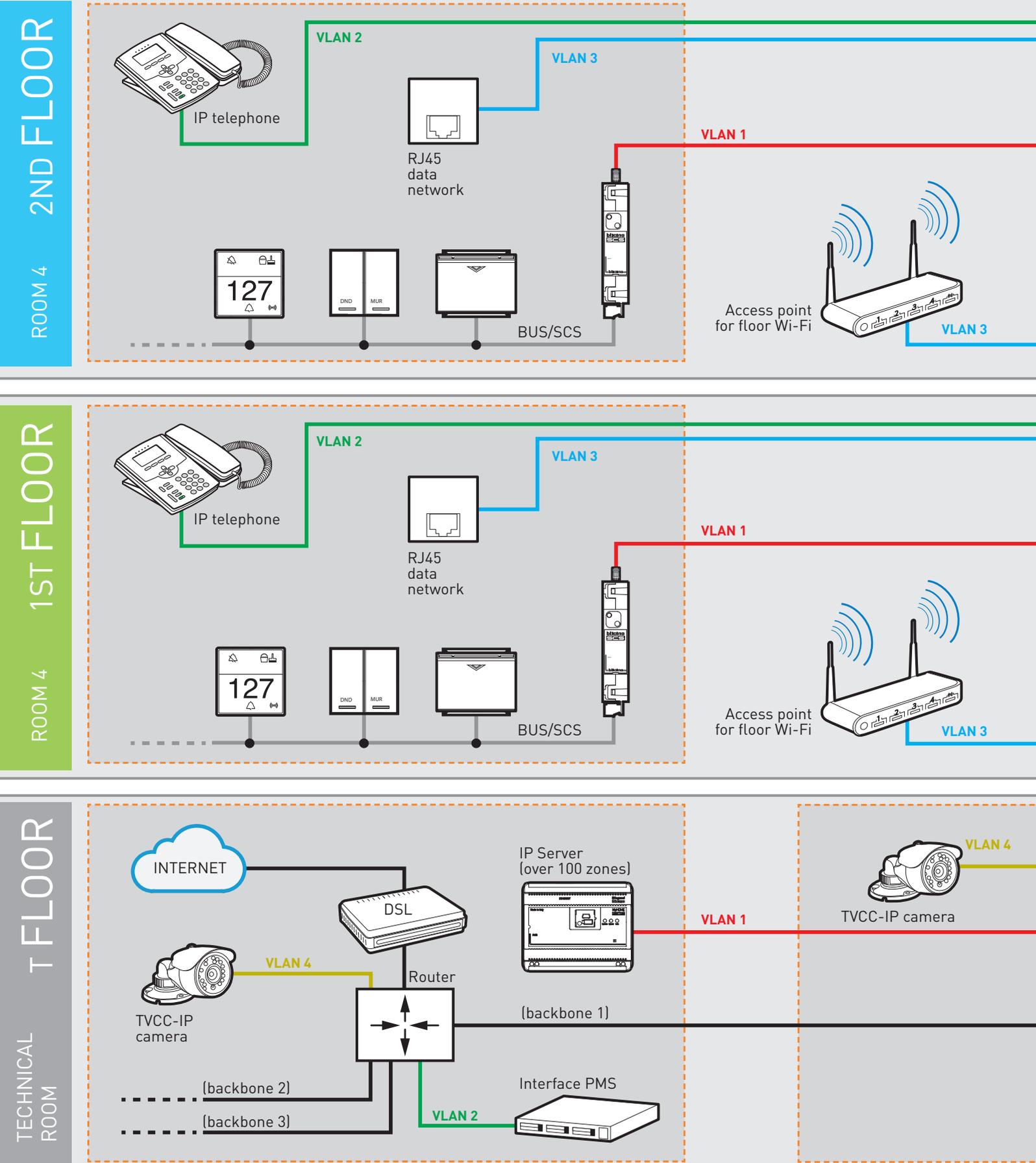


## VLAN network legend

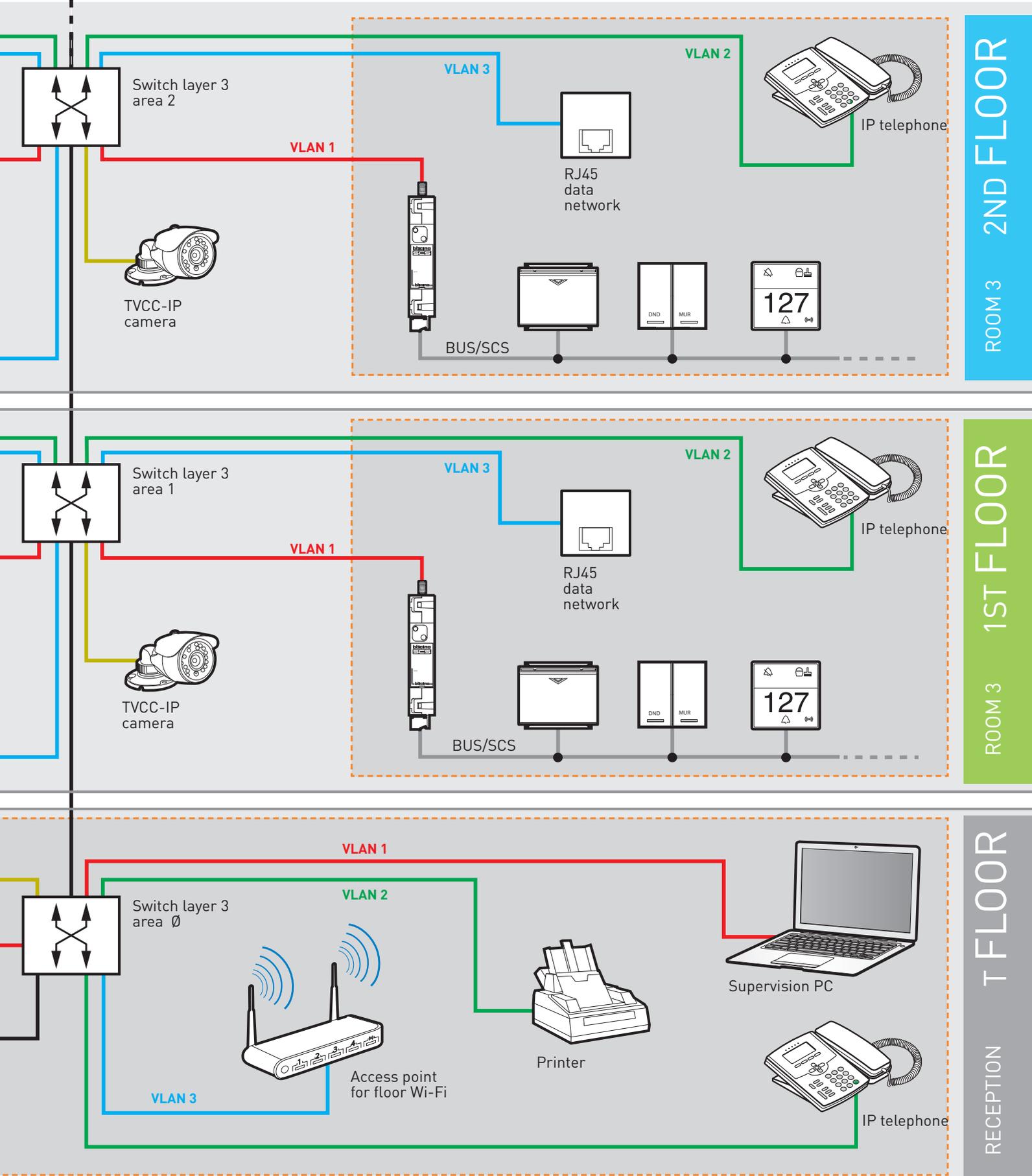
- VLAN 1** = virtual network dedicated to the Bticino/Legrand hotel devices
- VLAN 2** = virtual network dedicated to the IP telephony (VOIP) and various services (printers, etc...)
- VLAN 3** = virtual network dedicated to the distribution of the WiFi and wired "Internet" signal
- VLAN 4** = virtual network dedicated to safety (CCTV, etc...)

GENERAL RULES FOR INSTALLATION

EXAMPLE OF A NETWORK INFRASTRUCTURE IN A HOTEL WITH SUBDIVISION IN VLAN



OTHER FLOORS

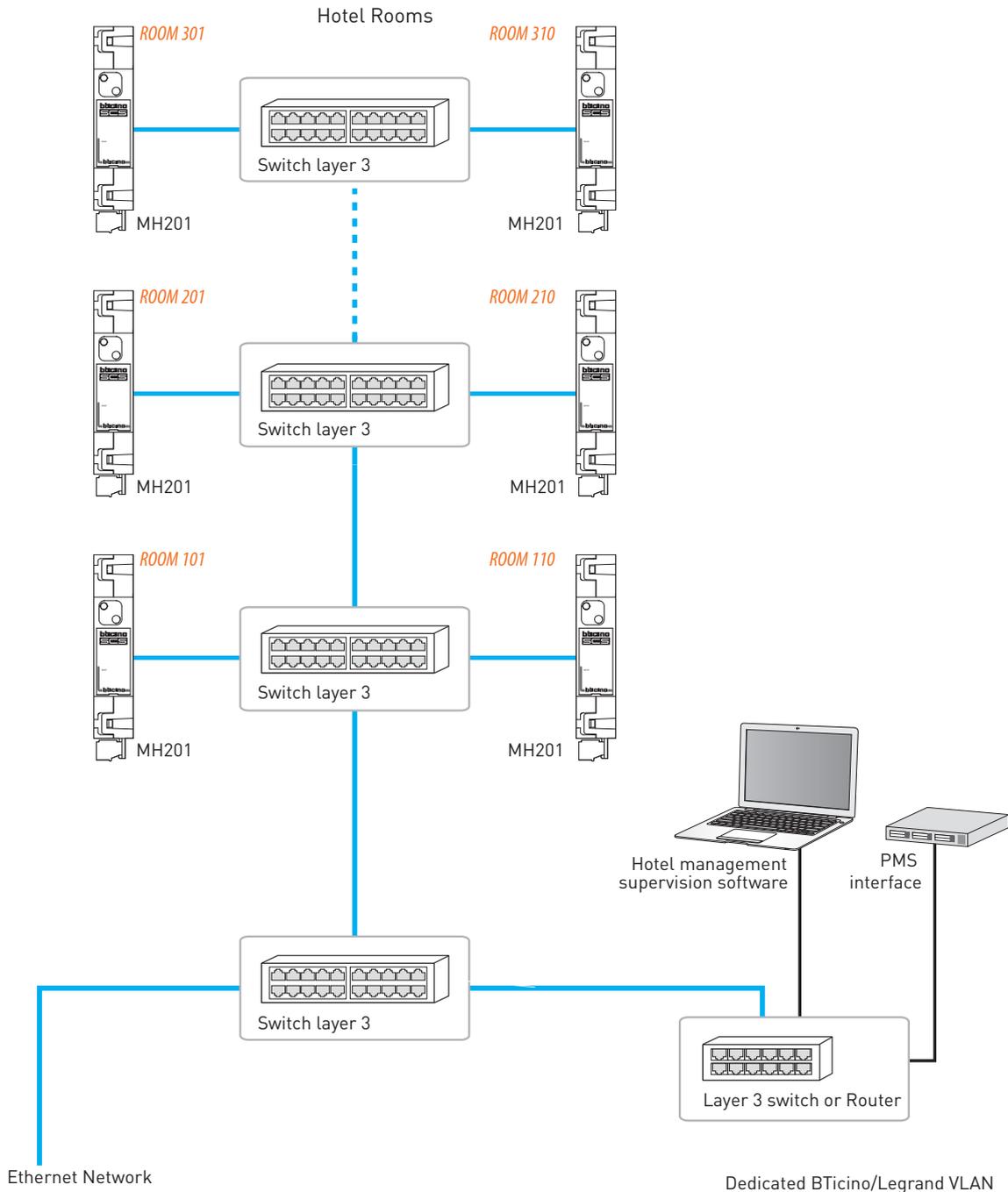


# RULES ON THE ETHERNET NETWORK INFRASTRUCTURE

Three different diagrams, with different system types of ethernet network depending on the number of rooms and areas to be controlled and the monitoring stations in reception, are supplied below.

## 1ST DIAGRAM

Type of system up to 100 zones (rooms or common areas) and a supervision PC in Reception and PMS software

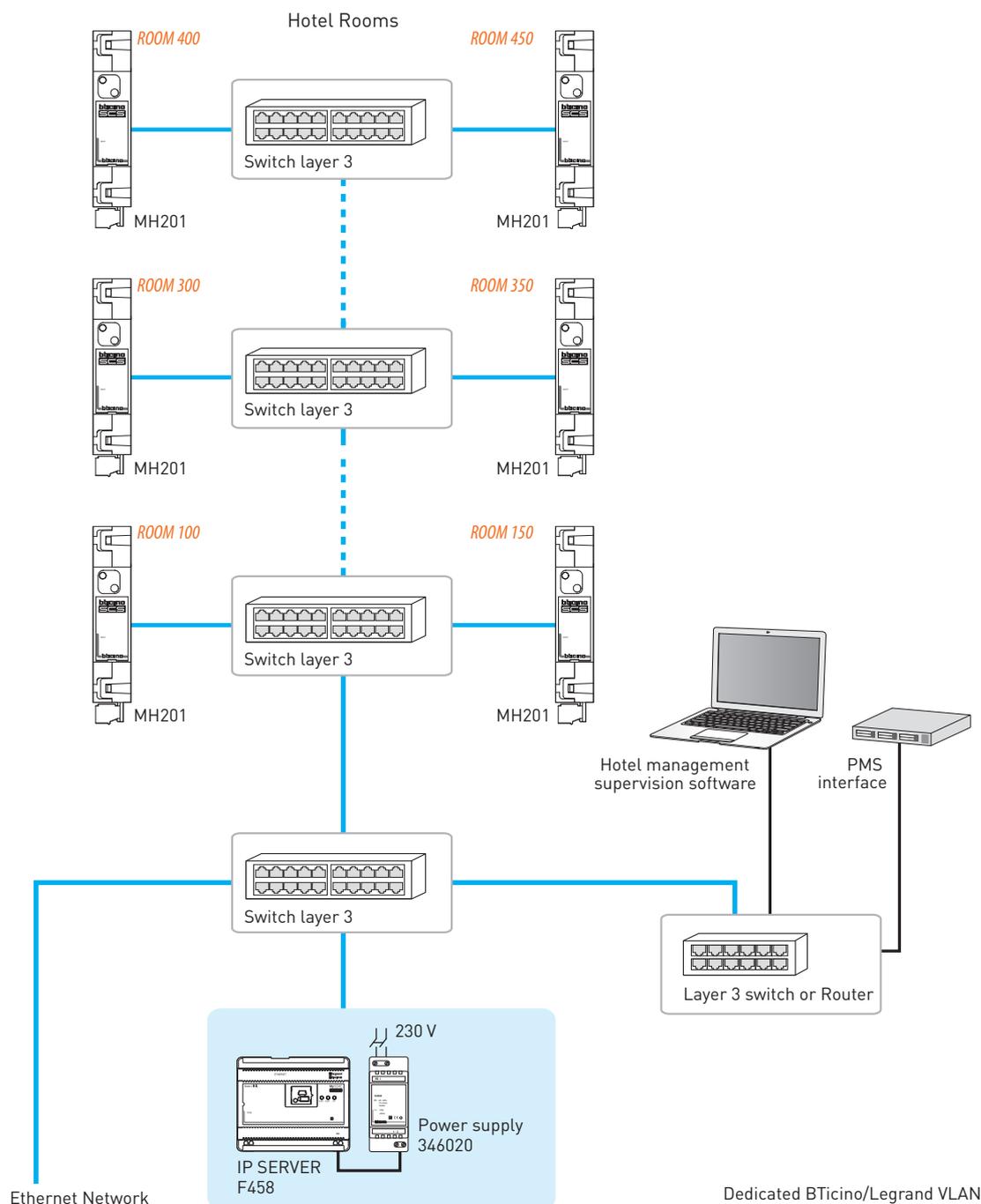


### ⚠️ NOTES FOR THE NETWORK ADMINISTRATORS:

Automatic device search procedures (based on UPnP), for both MH201 and Supervision Software, are associated with this topology. These allow the association of each area gateway to its own ID. In this case the network administrator must supply an automatic configuration service of the hosts in network on the Bticino/Legrand VLAN (recommended solution), or explicitly choose to use the APIPA protocol, isolating the Legrand VLAN with the other network sections.

**2ND DIAGRAM**

**Type of system between 100 and 500 zones (rooms or common areas) and a supervision PC in Reception and PMS software**



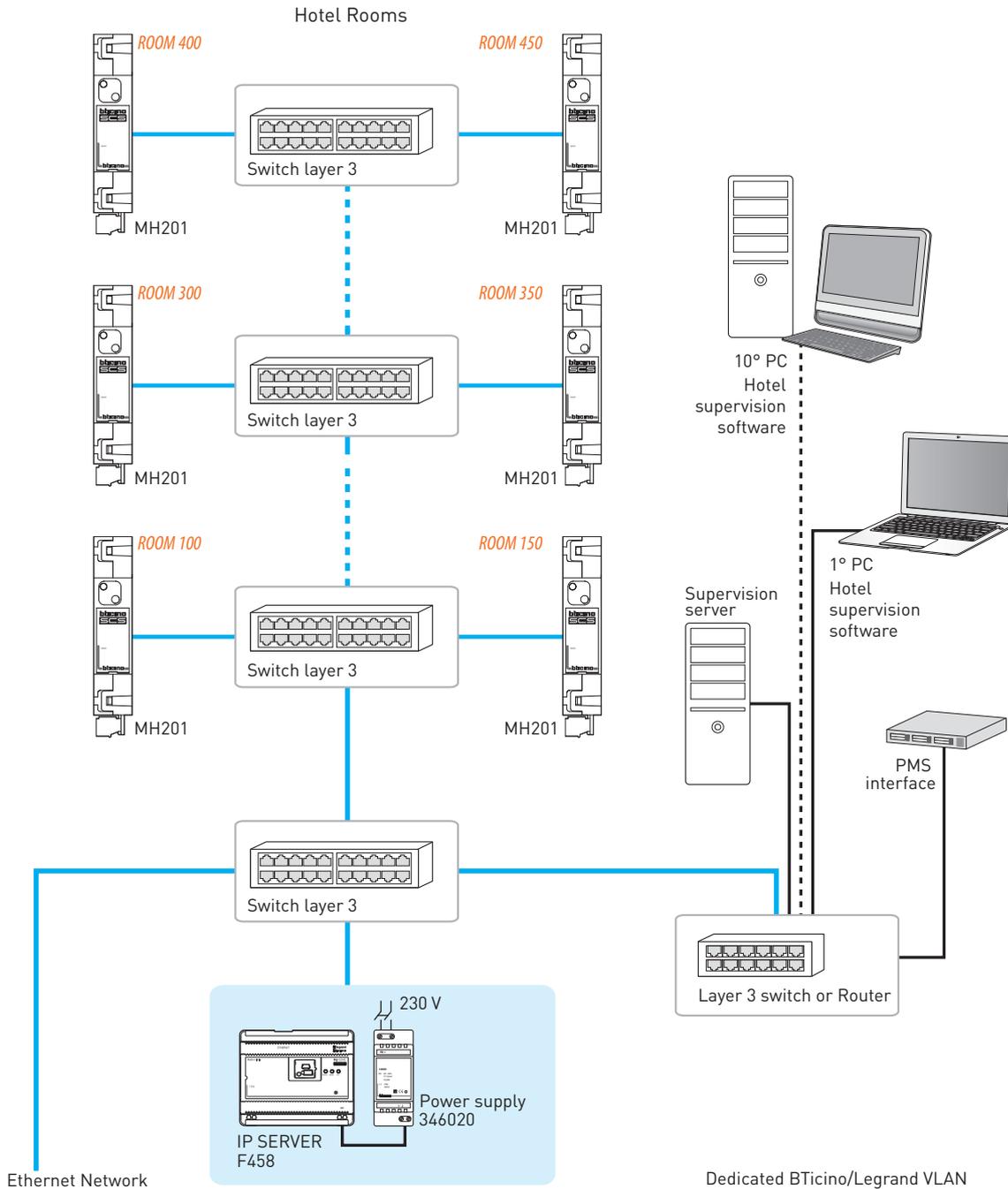
**⚠ NOTES FOR THE NETWORK ADMINISTRATORS:**

As the number of rooms increases the functions of the UPnP protocol become inefficient. Consequently the network administrator must make sure that there are no DHCP/DNS services on the Bticino/Legrand VLAN. These services will be supplied by F458. The maximum number of rooms supported in this diagram is 500.

# RULES ON THE ETHERNET NETWORK INFRASTRUCTURE

## 3RD DIAGRAM

Type of system up to 500 areas (rooms or common areas) and 10 supervision PCs and PMS software.



**NOTES FOR THE NETWORK ADMINISTRATORS:**

As the number of rooms increases the functions of the UPnP protocol become inefficient. Consequently the network administrator must make sure that there are no DHCP/DNS services on the Bticino/Legrand VLAN. These services will be supplied by F458. The maximum number of rooms supported in this diagram is 500.

# TYPICAL WIRING DIAGRAM FOR HOTEL ROOM AND COMMON AREAS

The typical wiring diagrams to make systems in Hotels and B&B or in farm tourism are presented in the following pages.

The diagrams presented are:

- **Basic wiring diagram – stand alone**
- **Advanced wiring diagrams for centralised systems and with the supervision software**
- **Section with the variants**

Inside the room are the following functions:

- Courtesy light
- Entrance door open control
- Refrigerator door open control
- Safe open control
- Bathroom alarm
- Entrance door bell
- Entrance door electric door lock control
- Air conditioning system Eco function
- Remote switch function

## LEGEND

ITEM	DESCRIPTION
E49	Power supply
F91/12/24	Transformer
F411U1	DIN module 1 relay actuator
F411U2	DIN module 2 relay actuator
F411/4	DIN module 4 relay actuator
F428	DIN module contact interface
F430R8	Air conditioning actuator
F430/4	DIN module 4 relay actuator for temperature control
FT1A2N230	Room remote switch

ITEM	DESCRIPTION
LN4648	Transponder key card switch
LN4651	Key card reader outside the door and indicators
LN4652	8-key scenario control
LN4653	DND and MUR controls
LN4691	Thermostat with display
MH201	Scenario module IP
3477	Basic contact interface
3511	Magnetic sensors

## NOTES

IMPORTANT NOTES	
<b>A</b>	The general switch GS (TM+EL) must be selected based on the absorption of the services installed.
<b>B</b>	The TM switch must be selected based on the power supply used.
<b>C E F</b>	The TM switch must be selected based on the loads connected.
<b>D</b>	If the current supplied by the E49 is not sufficient to power the SCS system, it is possible to use the E46ADCN power supply.
<b>G</b>	The actuator to be used depends on the type of air conditioning system installed.
<b>H</b>	In alternative, it is also possible to only use one actuator with 4 conduits (F411/4) instead of the two: F411U2 and F411U1.
<b>I</b>	Only use the most suitable sensor for the mechanical application. See the specific catalogue.
<b>L</b>	The devices to carry out the required functions must be configured using the MyHOME_Suite software.
<b>M</b>	The room identification number must be saved in the MH201 during the configuration.
<b>N</b>	It is possible to connect the system configuration PC at any point of the data network, and to use the PC at reception to configure and maintain the system.



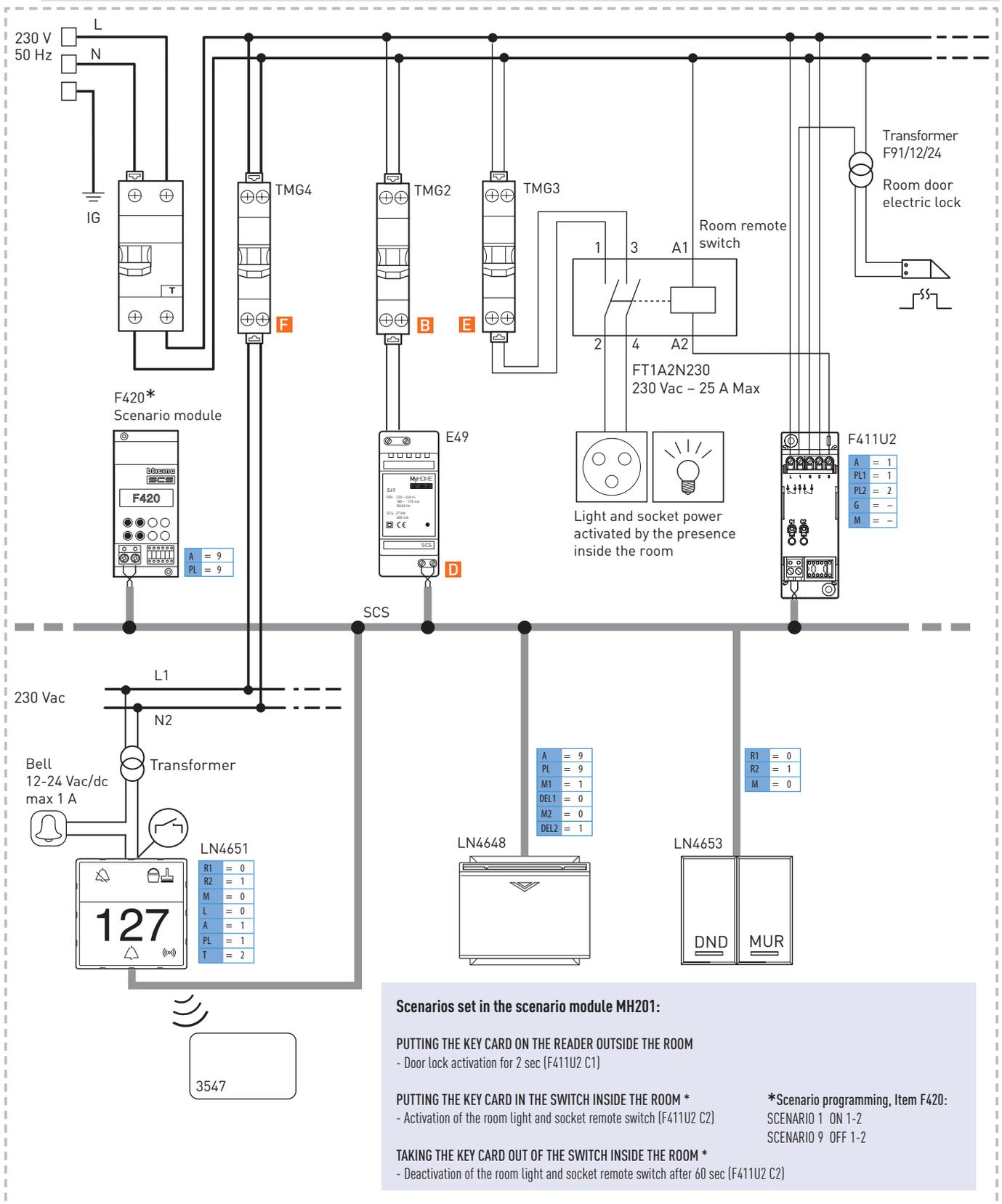
### NOTE FOR DESIGNERS:

The devices listed in the legend are for the LivingLight series, for all the other finishings, please refer to the catalogue section.

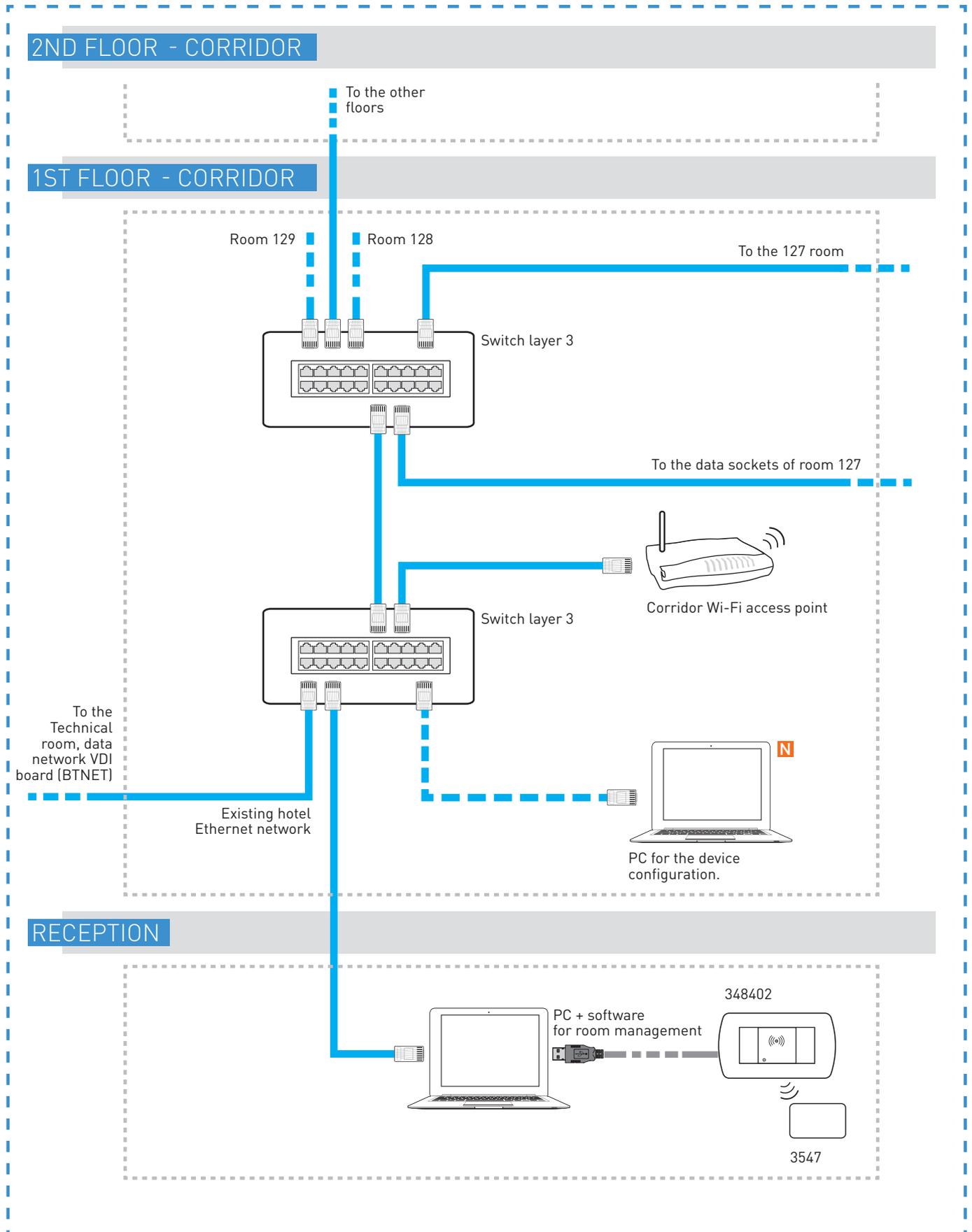
GENERAL RULES FOR INSTALLATION

TYPICAL DIAGRAM OF A BASIC ROOM - STAND ALONE SOLUTION

DIAGRAM 1

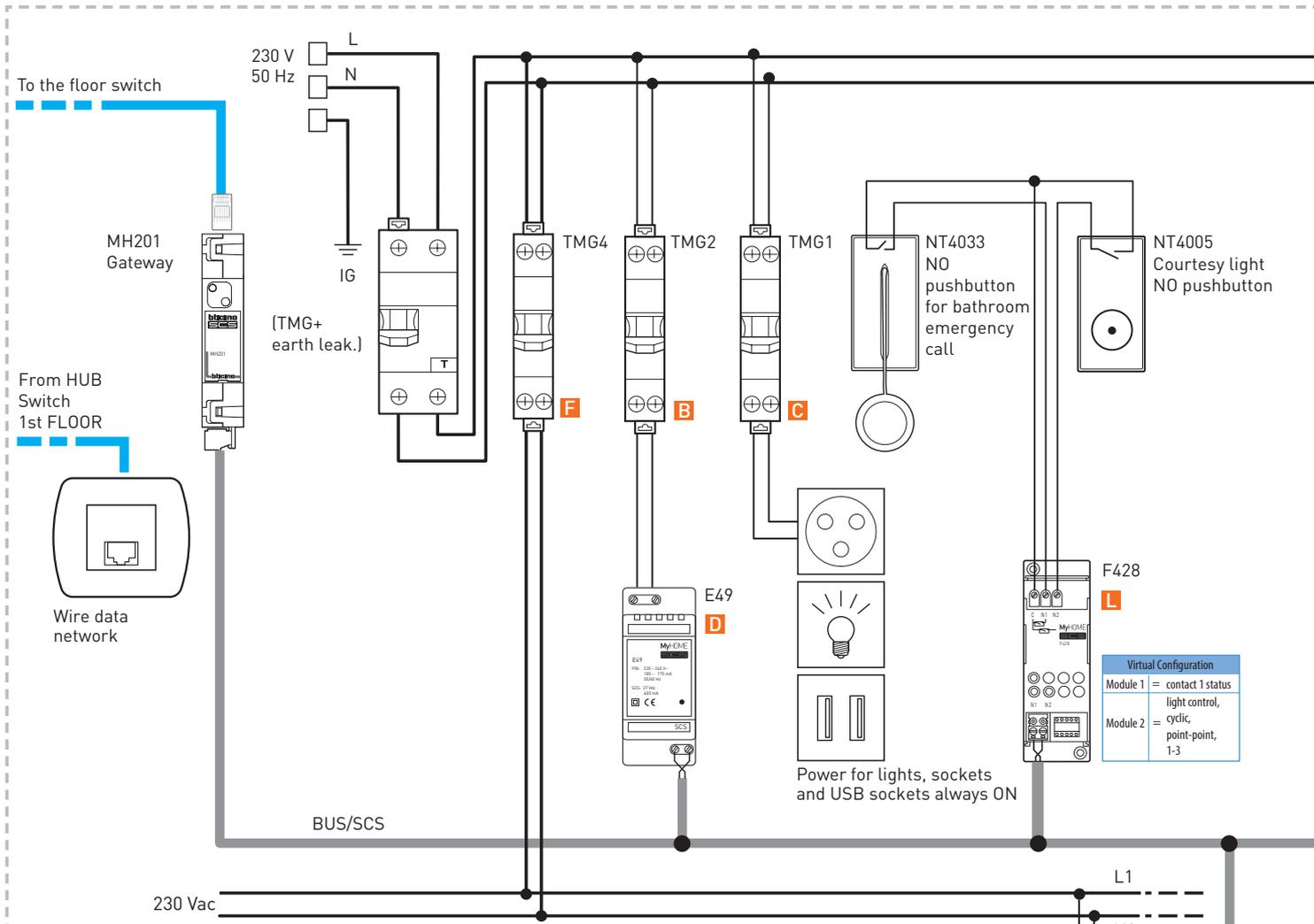


# TYPICAL DIAGRAM OF THE ETHERNET INFRASTRUCTURE IN A HOTEL



# TYPICAL ROOM DIAGRAM - CENTRALISED SOLUTION WITH TRADITIONAL ELECTRIC SYSTEM

DIAGRAM 2



Virtual Configuration	
Module 1 =	contact 1 status
	light control,
Module 2 =	cyclic, point-point, 1-3

**Scenarios set in the scenario module MH201:**

**PUTTING THE KEY CARD ON THE READER OUTSIDE THE ROOM**

- Door lock activation for 2 sec (F411/4 C1)
- switching on the courtesy light for 120sec (F411/4 C3)

**OPEN/CLOSE THE ROOM ENTRANCE DOOR**

- Activation of "Warning - Door" indication after 12 sec of opening the door without (on SW). Event saved in the room event history
- Automatic reset when the door is closed again

**PUTTING THE KEY CARD IN THE SWITCH INSIDE THE ROOM \***

- Activation of the room light and socket remote switch (F411/4 C2)
- Setting Comfort temperature >only if window closed<
- Unlock thermostat keys to adjust temperature and fan speed >only if window closed<

**TAKING THE KEY CARD OUT OF THE SWITCH INSIDE THE ROOM \***

- ECO temperature setting
- Deactivation of the room light and socket remote switch after 30 sec (F411/4 C2)
- switching off the courtesy light after 30sec (F411/4 C3)
- Thermostat key block

**OPEN ROOM WINDOW**

- ECO temperature setting
- Thermostat key block

**CLOSE ROOM WINDOW**

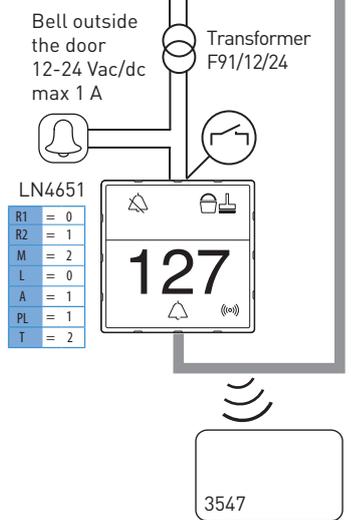
- If room occupied: setting COMFORT temperature and thermostat key unlock
- If room not occupied: setting ECO temperature and thermostat key lock

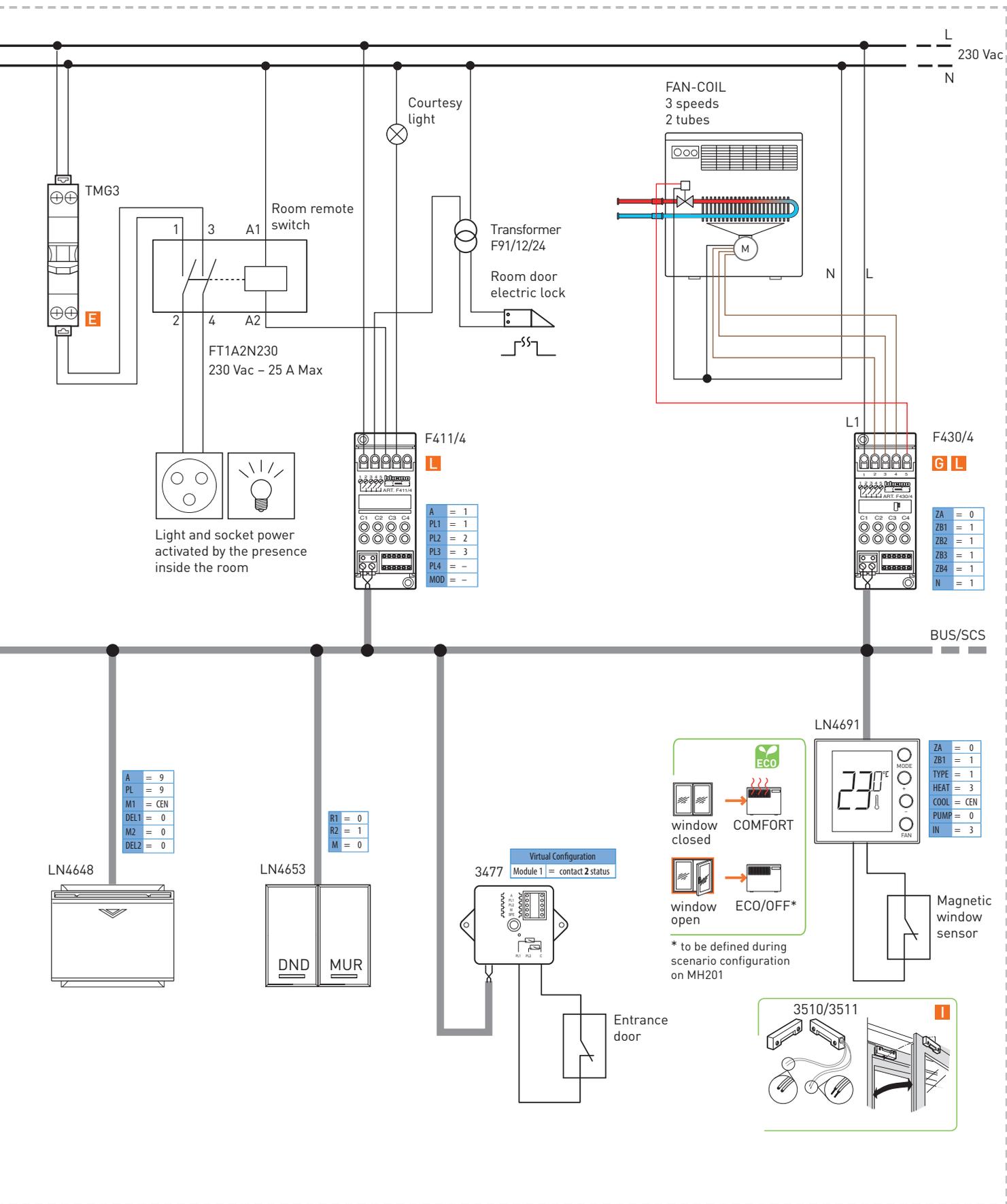
**COURTESY LIGHT MANAGEMENT USING THE PUSHBUTTON INSIDE THE ROOM (NT4005+F428)**

- if there is a key card, step/step management of the courtesy light (F411/4 C3)
- if there is no key card the switching on is Timed for 120 sec (F411/4 C3); if in the meantime the key card is put into the switch the light remains on steadily

**BATHROOM SOS ALARM**

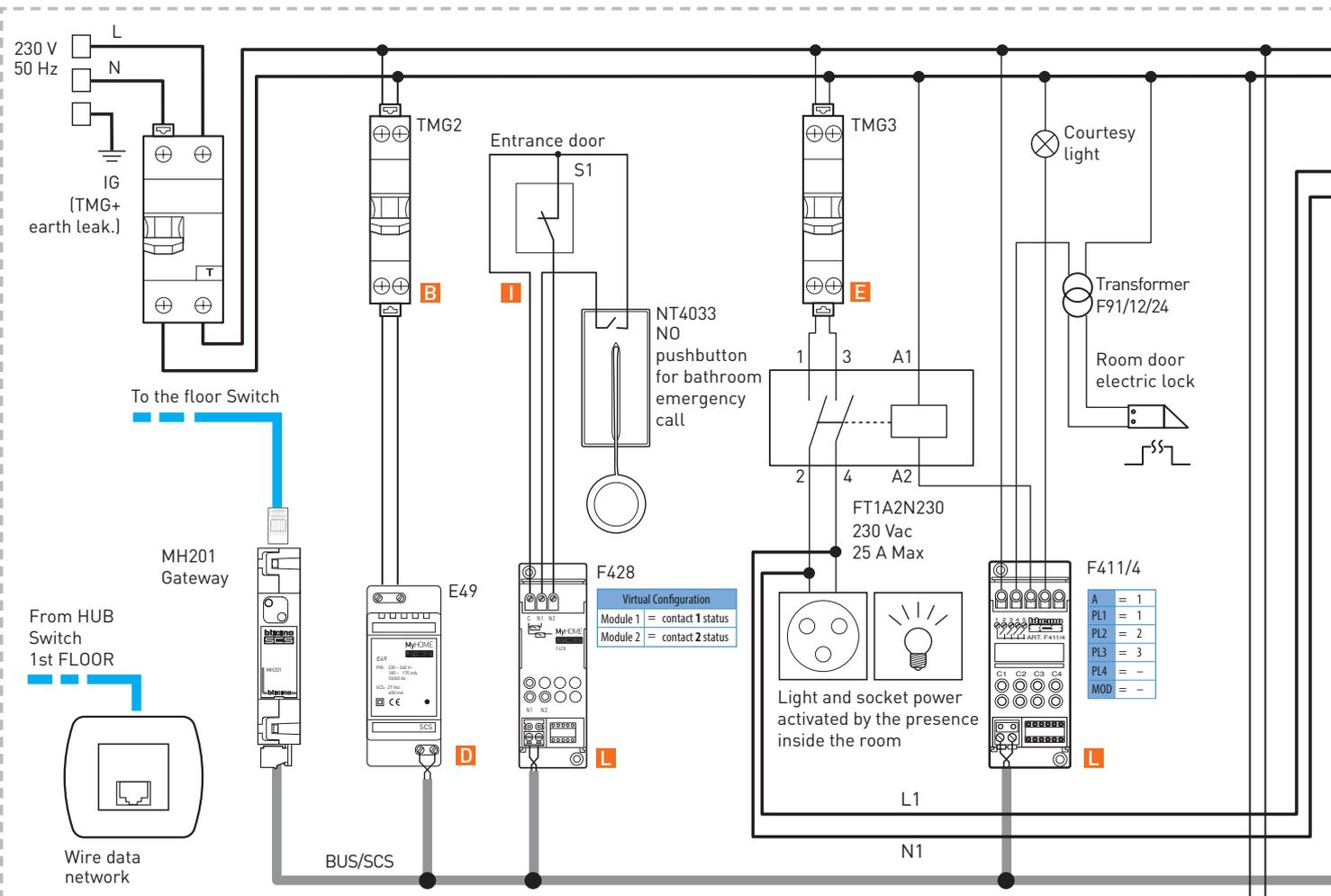
- Activation of "Alarm - SOS" (on SW) and backlighting flashing reader outside the room (LN/H4651 batch >14W41)
- Manual reset from SW. The local manual reset (CEN control) can be set with different MH201 programming.





# TYPICAL ROOM DIAGRAM - CENTRALISED SOLUTION WITH HOME AUTOMATION SYSTEM

DIAGRAM 4



**Scenarios set in the scenario module MH201:**

**PUTTING THE KEY CARD ON THE READER OUTSIDE THE ROOM**

- Door lock activation for 2 sec (F411/4 C1)
- Switching on the courtesy light/s (F411/4 C3)

**OPEN/CLOSE THE ROOM ENTRANCE DOOR**

- Activation of "Warning – Door" indication after 12 sec of opening the door without (on SW). Event saved in the room event history
- Automatic reset when the door is closed again

**PUTTING THE KEY CARD IN THE SWITCH INSIDE THE ROOM \***

- Activation of the room light and socket remote switch (F411/4 C2)
- Setting Comfort temperature >only if window closed<
- Unlock thermostat keys to adjust temperature and fan speed >only if window closed<

**TAKING THE KEY CARD OUT OF THE SWITCH INSIDE THE ROOM \***

- ECO temperature setting
- Switching off all the room lights after 20 sec of deactivation of the room light and socket remote switch after 30 sec (F411/4 C2)
- Thermostat key block

**OPEN ROOM WINDOW**

- ECO temperature setting
- Thermostat key block

**CLOSE ROOM WINDOW**

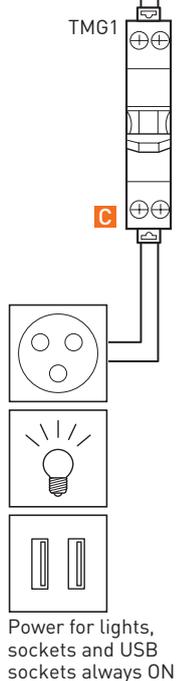
- If room occupied: setting COMFORT temperature and thermostat key unlock
- If room not occupied: setting ECO temperature and thermostat key lock

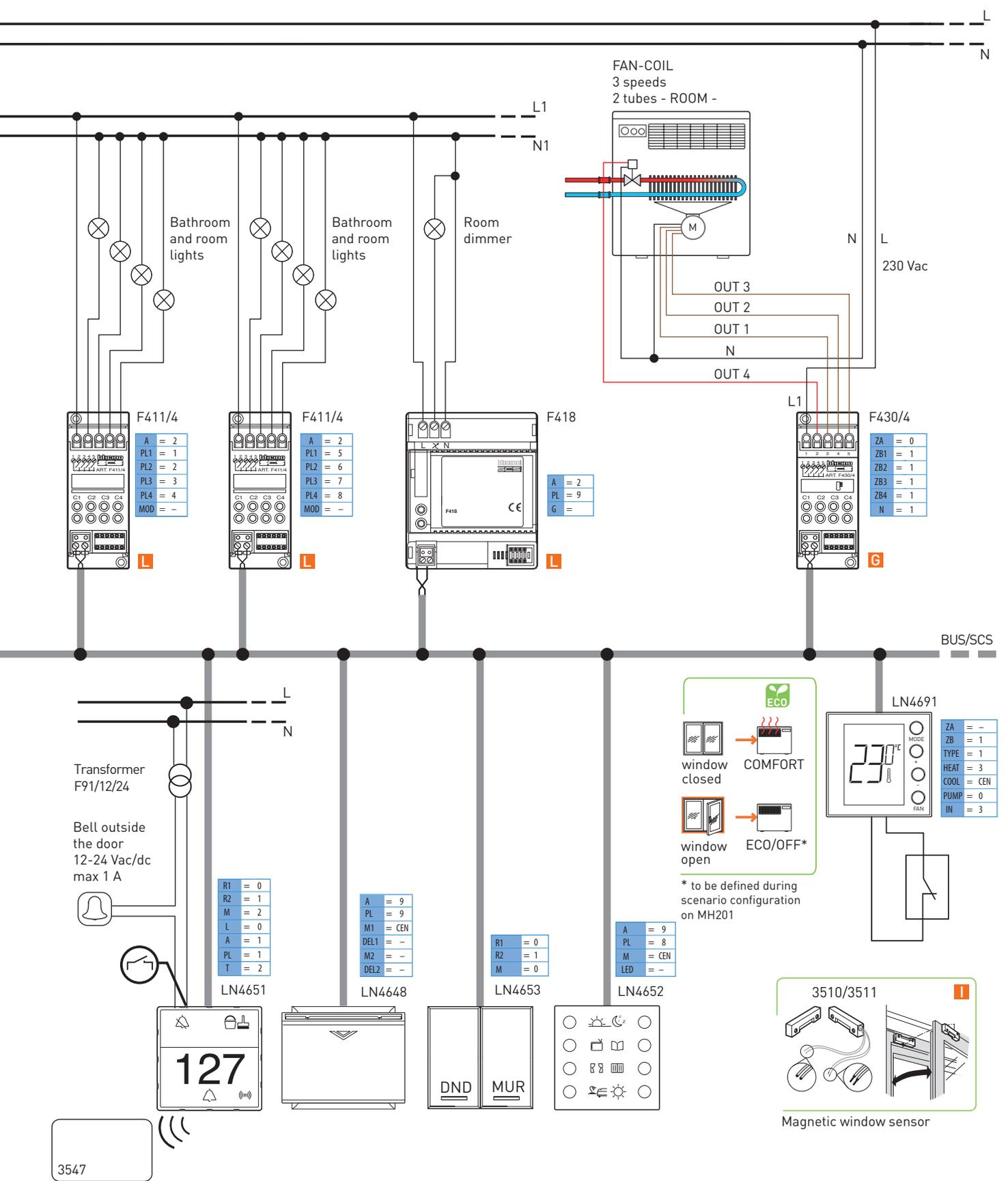
**COURTESY LIGHT MANAGEMENT USING THE PUSHBUTTON INSIDE THE ROOM (NT4005+F428)**

- if there is a key card, step/step management of the courtesy light (F411/4 C3)
- if there is no key card the switching on is Timed for 120 sec (F411/4 C3); if in the meantime the key card is put into the switch the light remains on steadily

**BATHROOM SOS ALARM**

- Activation of "Alarm – SOS" (on SW) and backlighting flashing reader outside the room (LN/H4651 batch >14W41)
- Manual reset from SW. The local manual reset (CEN control) can be set with different MH201 programming.





# VARIATIONS OF ROOM DIAGRAMMS

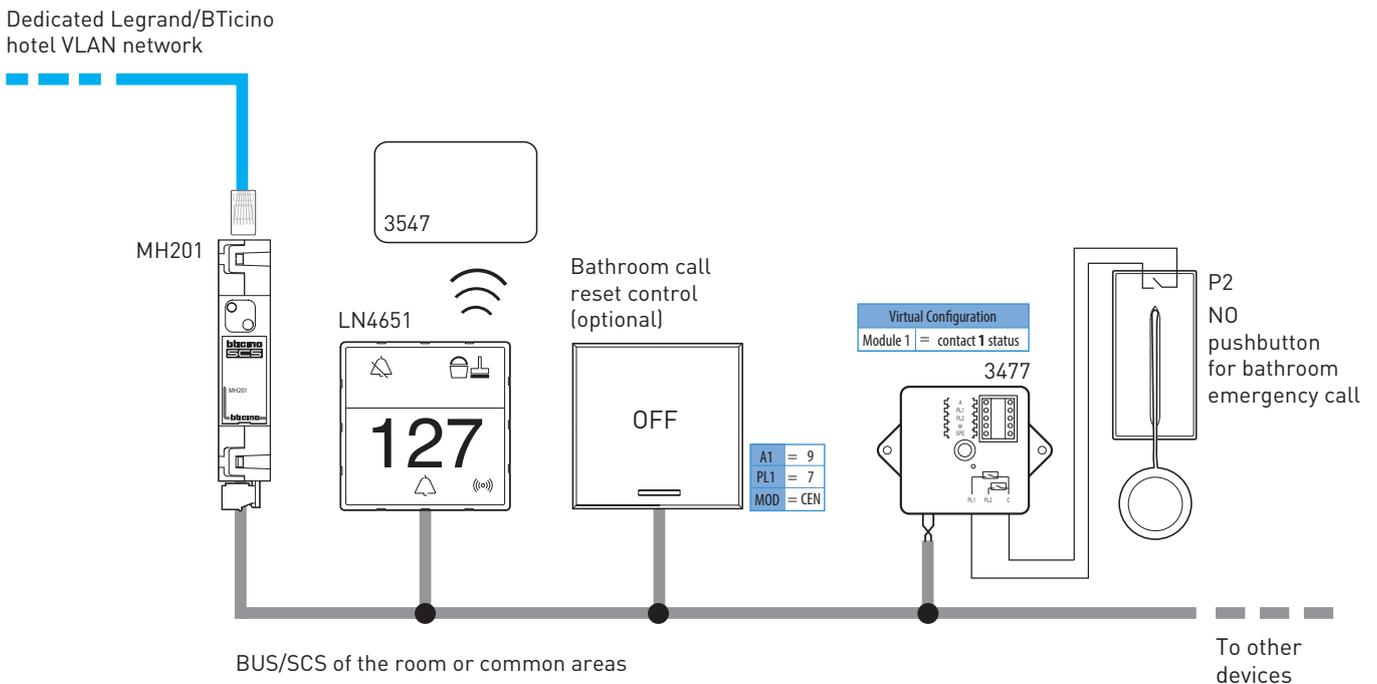
Some diagrams which can be used to make and manage the emergency calls of the room bathrooms or the common areas are supplied below.

## VARIANT DIAGRAM 1 MANAGEMENT OF EMERGENCY CALL FROM THE BATHROOM WITH OPTIONAL RESET CONTROL

Notification with flashing of the outside-door reader (if configured)

The alarm is reset by the software or a local pushbutton by means of a scenario (if configured in the MH201 contact management).

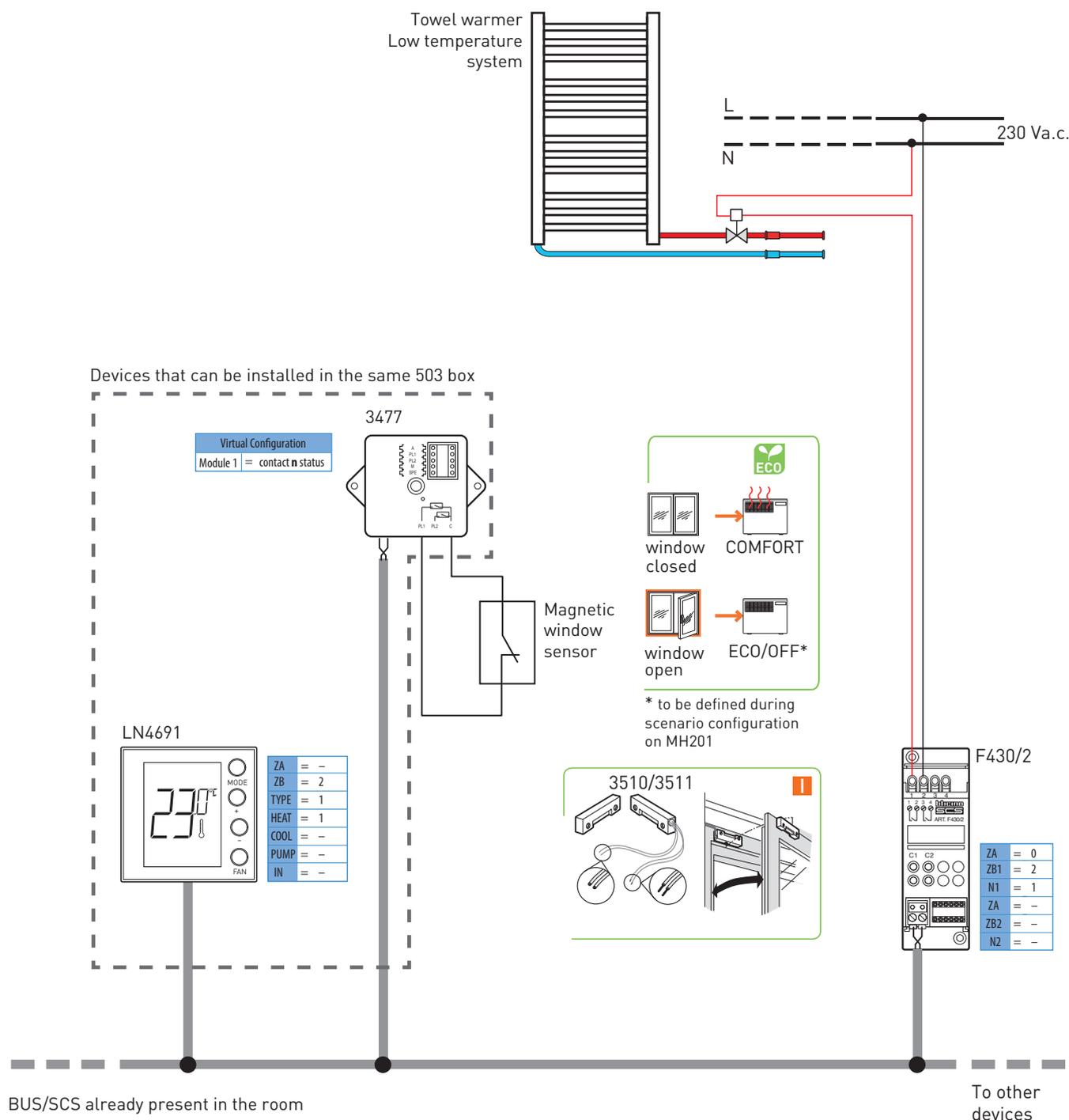
A traditional pushbutton linked to the contact interface can be installed instead of the home automation control.



**VARIANT DIAGRAM 2 ROOM WITH INDEPENDENT TEMPERATURE CONTROL IN THE BATHROOM**

For each zone (each MH201), common area or room, the system can manage a maximum of one LN4691 thermostat with "ECO function" with window contact connected directly to it.

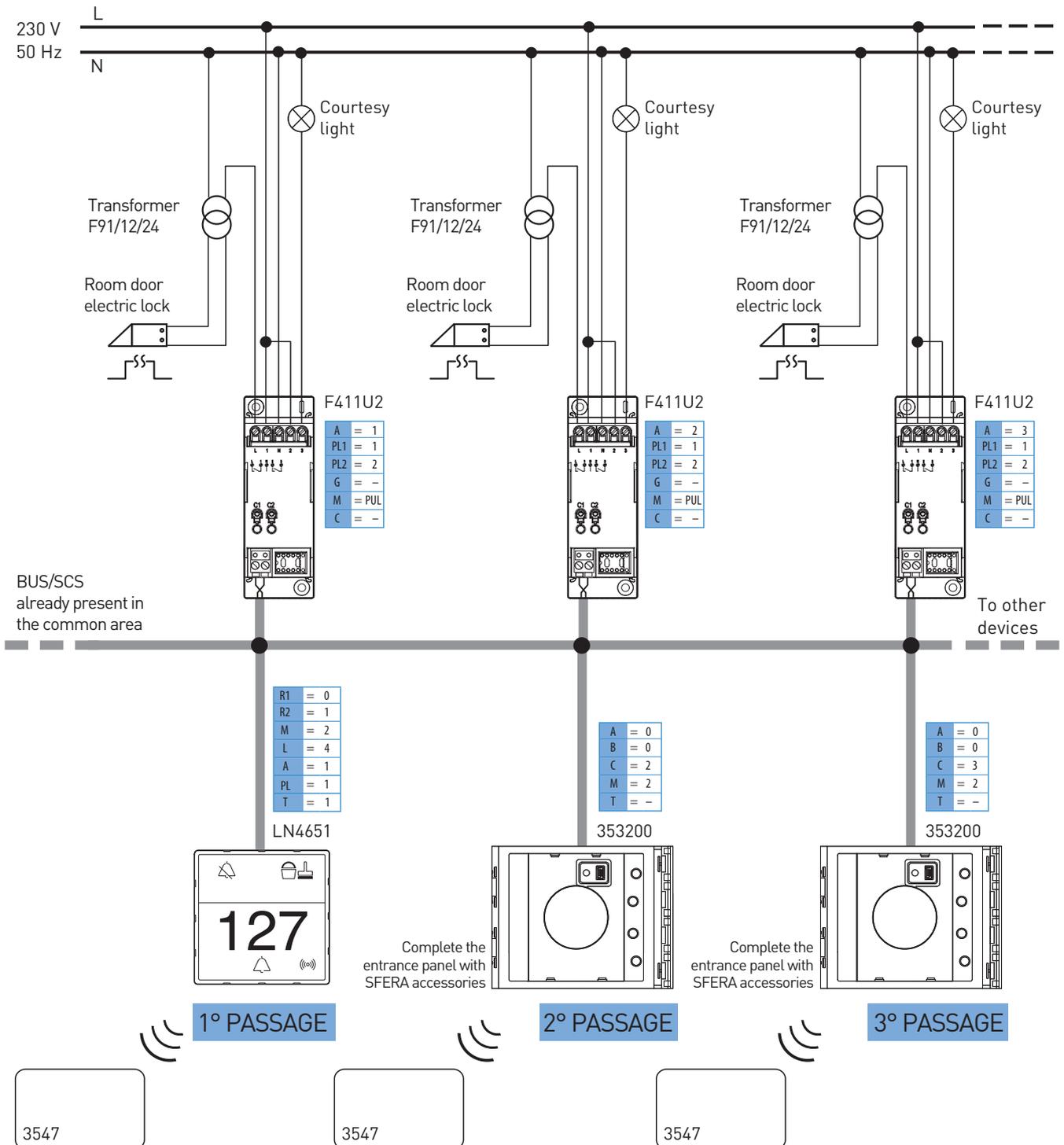
In the same zone there are other thermostats with the management of the "ECO function". Their contacts must be managed using the 3477 contact interface, as in the following diagram.



# VARIATIONS OF ROOM DIAGRAMS

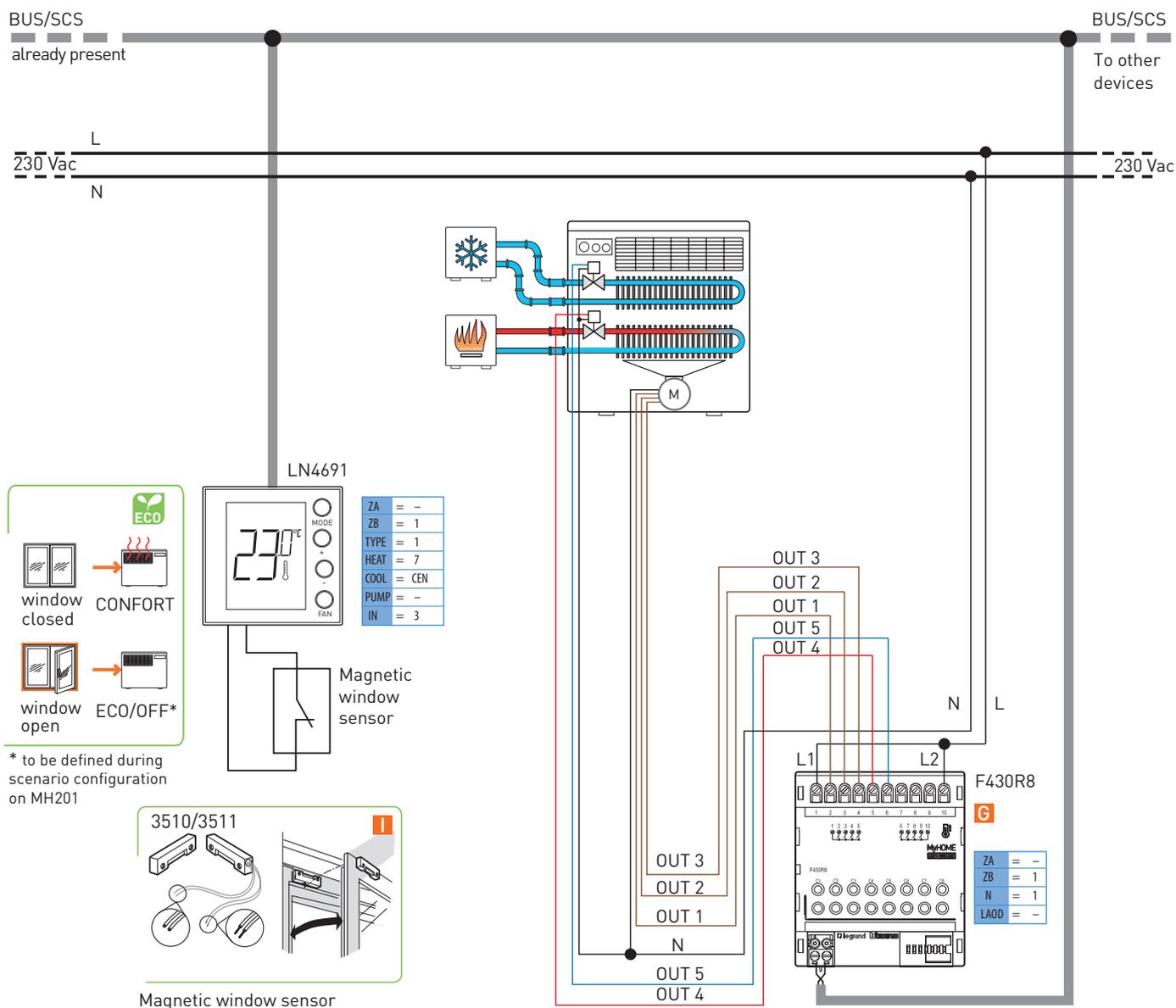
## VARIANT DIAGRAM 3 MANAGEMENT AND CONTROL OF COMMON ENTRANCES (MAX 8)

- Maximum number 8 manageable inputs cannot be discriminated.
- Can have progressive inputs every time the card touches the reader (e.g. entries to the swimming pool or sauna).
- The transponder module item 353200 must have firmware 020015 or higher.



**VARIANT DIAGRAM 3 MANAGEMENT AND CONTROL OF 3-SPEED AND 4-TUBE FAN-COIL**

This variant proposes the diagram to manage a temperature control system with 4 tubes, 3-speed FAN-COIL and the use of a single 8-output actuator.



## PROCEDURE FOR STARTING A SYSTEM



The following procedure is an example of the starting of a system.

in the case of a system with fewer than 100 zones; rooms/common areas (without IP Server F458) the passages shown in red must be omitted.

There are alternative methods (such as the creation of the project by scanning the system) which can be used as needed.

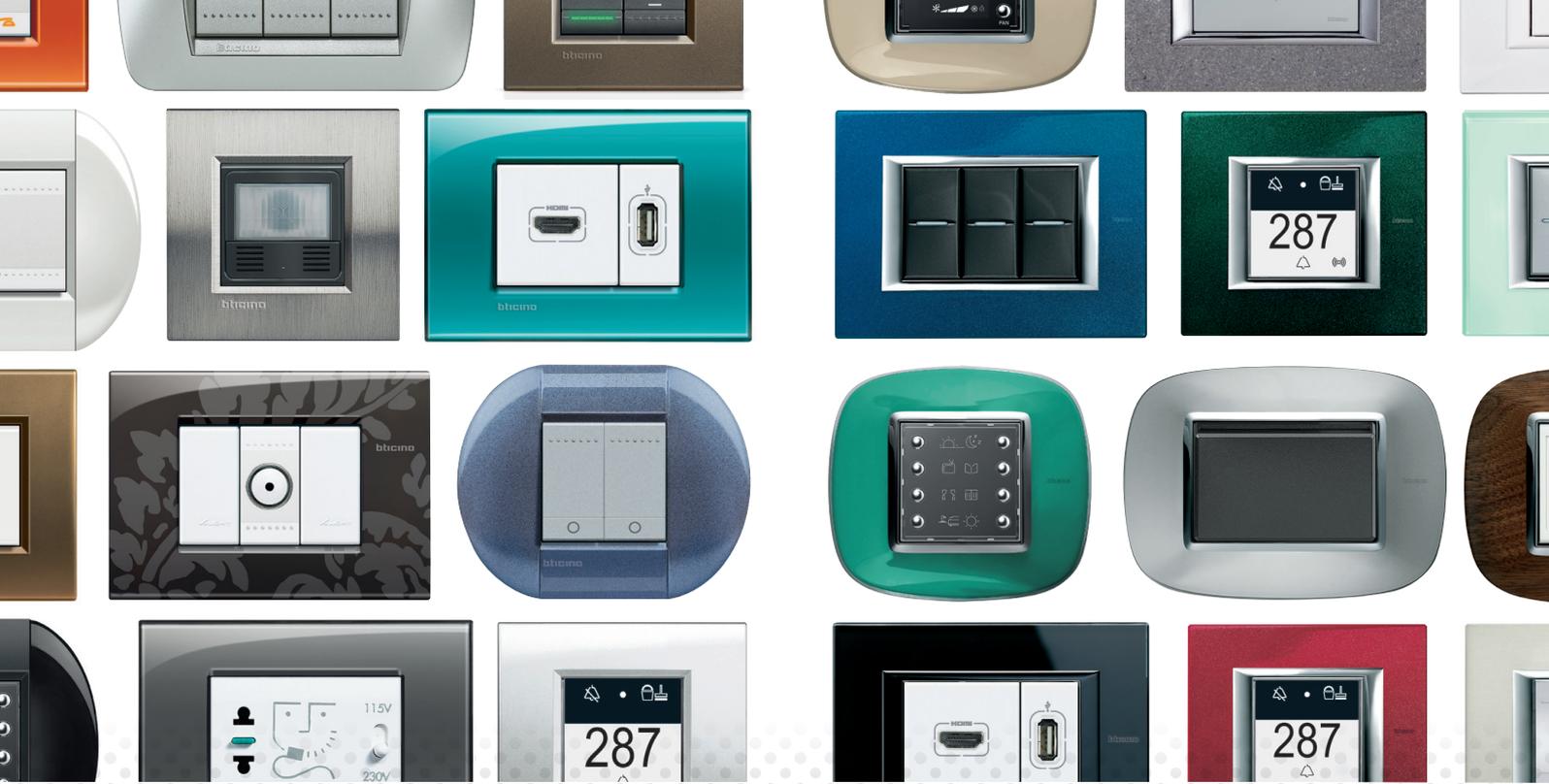
1. Install the electric system in the rooms / common areas
2. Install the device IP Server F458
3. Install and run MyHOME\_Suite (not necessarily on hotel reception PC)
4. Open MyHOME\_Suite and create a new HOTEL project:
5. Select "IP Server F458" in the "project information" section
6. Enter in "structure"
7. Configure the F458 (see the corresponding manual)
  - a. After sending the F458 configuration wait for 1 minute and SWITCH THE HOTEL SYSTEM ON AND OFF AGAIN (F458+MH201)  
The system is up to speed with the assignment of the IP addresses in a few minutes.  
In the mean time one can continue with the next steps.
8. Always in the "Structure" section, add buildings and floors by means of the "Edit" menu
9. Create a room/common area in the corresponding floor
10. For each room/common area created, customise Type, Name and Category (the MAC address field will be configured in the next steps).
  - a. With F458 select DHCP
11. For each room/common area created, edit from the "Properties" window
  - a. Configure the MH201 (see the corresponding manual)
  - b. Add the necessary SCS devices and configure them appropriately



## PROCEDURE FOR STARTING A SYSTEM



12. Return to the “Structure” section
13. The already created rooms/common areas can be “copied” and “pasted”.  
In this case the following information must be customised
- type, name and category
  - Unique code of the MH201
  - The ID of the SCS devices
  - Any other customisations of the individual room/common area (e.g. contacts, scenarios, access control etc.)
14. In the “Structure” area enter the properties window, select “search on network” and search for the IP devices
15. Drag the MH201 devices found in the network to the corresponding rooms/common areas based on ID / MAC ADDRESS (be careful that the correspondence is correct)
16. At this point the configurations can be sent to the devices of each room/common area (by means of the “edit room/area” function)
- Send the configuration of the MH201
  - Connect to the MH20e entering the IP address in the template at the top left and sending the configuration of the SCS devices
17. Save the MyHOME\_Suite project file just completed by File → Save system
18. Create the project file of the supervision software from File → Create hotel file
19. Install and configure the Hotel Supervision software (see its manual) in which the file just created will be loaded.



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# AXOLUTE

## hotel solutions

A complete offer for a state of the art electric system inside the whole welcoming establishment and in particular inside the hotel room. All this to ensure that customers feel immediately at ease. The offer includes both standard traditional functions, and more advanced functions.

### DESIGNED TO IMPROVE THE COMFORT OF THE CUSTOMER

A solution for all kinds of hotels



STANDARD EQUIPMENT



EQUIPMENT INCLUDING SPECIFIC PRODUCTS FOR THE SCS-BUS ROOM



The BTicino offer for the rooms, and in wider terms for the whole hotel establishment, includes many more devices that are normally also used for other applications.

**Request or view the Axolute catalogue**

# AXOLUTE

## SCS-BUS devices (specific for the hotel)

This page lists the devices for hotel comfort and access control solutions.



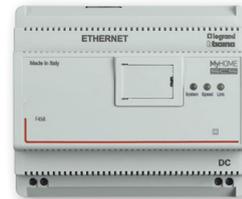
H4650



H4651



MH201



F458



F459



H4653



348402



3544SW  
3546SW

Item		KEY CARD SWITCHES
○ H4649		key card switch for function activation in the hotel room - slot light with built-in lamp - SCS-BUS connection - sizes: 2 modules - to be completed with front cover in the desired look
○ H4648		key card switch for function activation in the hotel room with RFID technology recognition - slot light with built-in lamp - SCS-BUS connection - sizes: 2 modules - to be completed with front cover in the desired look
<b>CONTROL INDICATORS FOR ROOM MANAGEMENT</b>		
○ H4650		DO NOT DISTURB – MAKE UP THE ROOM indicator and bell pushbutton - SCS-BUS connection - sizes: 2 modules
○ H4651		key card reader in RFID technology + DO NOT DISTURB – MAKE UP THE ROOM indicator and bell pushbutton - SCS-BUS connection - sizes: 2 modules
○ H4653		DO NOT DISTURB – MAKE UP THE ROOM control to be completed with key covers - SCS-BUS connection - sizes: 2 modules
<b>KEY CARDS AND KEY CARD PROGRAMMER</b>		
○ 3547		Credit card key card (ISO 50x80 mm). It uses transponder technology Mifare classic ISO14443 type A. To be used together with the key card programmer, item code 348402. The key card can be customised and is sold in lots of 5 pieces. Compatible with reader H4651 starting from production batch 14W40.
○ 348402		Table-top key card programmer to be connected to the PC in the reception.

Item		IP SCENARIO MODULE
○ MH201		it manages scenarios related to hotel rooms - it works as a gateway for the Configuration and Supervision software - it is necessary to install one module for each room or zone - SCS-BUS and ethernet network connection - sizes: 1 DIN module
<b>SCENARIO MODULE</b>		
○ F420		device to save 16 scenarios for the Automation, Sound system, Temperature control and Video door entry applications - 2 DIN modules
<b>IP SERVER</b>		
○ F458		IP SERVER to be used in systems with over 100 rooms or zones (over 100 MH201 installed). Size: 6 DIN modules
<b>DRIVER MANAGER</b>		
○ F459		integration platform with other brand systems. Size: 6 DIN modules
Contact the BTicino System Integration Service to check the feasibility of specific integrations and to request the licence needed to use the Driver manager (Toll free number 800.837035)		
<b>SOFTWARE</b>		
○ 3544SW		Licence for the software for the room status supervision, the basic management and the key card programming for a Hotel with up to 20 rooms
○ 3546SW		Licence for the software as above – for a Hotel with more than 20 rooms

NOTE: To request integration with PMS which use FIAS protocol (e.g. Fidelio) contact the BTicino Sale Service.

NOTE:  White device     Tech device     Anthracite device     Neutral item

# AXOLUTE

## SCS-BUS devices (lights and automation)



H4651M2    H4652/2    H4652/3



HD4680    HS4680    H4652

Item	CONTROLS
○ H4651M2	 <p>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</p>

Item	CONTROLS FOR SINGLE OR DOUBLE LOADS
○ H4652/2	 <p>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</p>

○ H4652/3	 <p>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</p>
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Item	CONTROL FOR ROLLING SHUTTER MANAGEMENT
○ H4660M2	 <p>2 module flush mounted control with reduced thickness with 3 pushbuttons, only suitable for operation with advanced actuators H4661M2 and F401, specific for the management of rolling shutters. In addition to monostable and bistable UP/DOWN operation, the device also places the rolling shutter in a stored (PRESET) position.</p>

Item	SCENARIO CONTROL
□ HD4680 ■ HC4680 ■ HS4680	 <p>customisable scenario control to control 4 independent "room situations" - 2 modules</p>

○ H4652	 <p>8-KEY control for light management, rolling shutter automation, sound system and scenarios - SCS-BUS connection - sizes: 2 modules</p>
---------	---

○ 3541 ○ 3542	<p>A5 sheets for the customisation of the symbols of item H4652 3541 = black; 3542 = white; The sheets can be customised using the tool found in the MyHOME_Suite configuration software.</p>
------------------	---

NOTE: □ White device    ■ Tech device    ■ Anthracite device



HD4657M3    HS4657M3

Item	GLASS DIGITAL CONTROLS
	MyHOME control which can control single loads or group loads (e.g. lights and rolling shutters). 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	 <p>6-key control– size: 3 modules</p>
------------	---

□ HD4657M4	 <p>8-key control– size: 4 modules</p>
------------	--

**WHICE**

■ HC4657M3	 <p>6-key control– size: 3 modules</p>
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■ HC4657M4	 <p>8-key control– size: 4 modules</p>
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**NIGHTER**

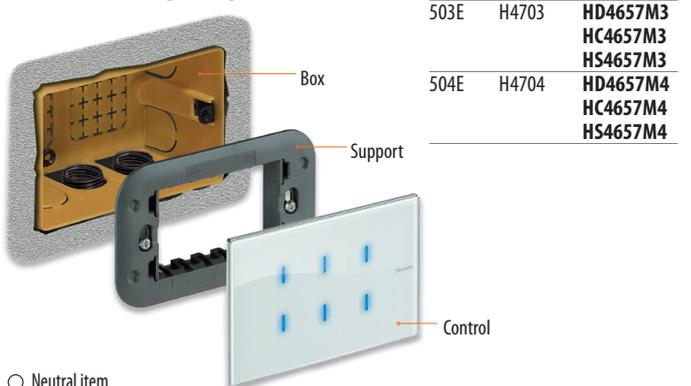
■ HS4657M3	 <p>6-key control– size: 3 modules</p>
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■ HS4657M4	 <p>8-key control– size: 4 modules</p>
------------	--

**NOTE:** the glass controls can be customised with symbols by means of silk screen printing. On request as special orders.

**Installation of the glass digital control**

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



○ Neutral item

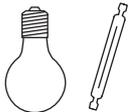
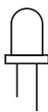
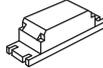
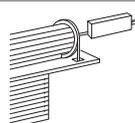
# AXOLUTE

## SCS-BUS devices (lights and automation)



Item	ACTUATORS AND FLUSH MOUNTED ACTUATORS/ DIMMERS
○ H4671M2	 <p>actuator/control with 2 independent relays - for single, double or mixed loads: 2 A resistive, 2 A incandescence lamps, 500 W for reducer motors, 2 A <math>\cos\phi</math> 0.5 for ferromagnetic transformers and 70 W for fluorescent lamps - logic relay interlock via configuration. The device can be also configured to manage a remote actuator - 2 modules</p>
○ H4671/1	 <p>1 relay actuator with control key - for single loads: 6 A resistive or incandescence lamps, 2 A <math>\cos\phi</math> 0.5 for ferromagnetic transformers and 150 W fluorescent lamps - to be completed with 2-module key covers for single or double function</p>
○ H4678	 <p>dimmer actuator for incandescence lamps and ferromagnetic transformers - 60 - 300 VA 230 Va.c. - to be completed with 2-module key covers for single or double function - 2 modules</p>

Item	BASIC MODULE ACTUATOR
○ 3475	 <p>1 relay actuator - for single loads: 2 A resistive or incandescence lamps and 2 A <math>\cos\phi</math> 0.5 for ferromagnetic transformers - suitable for installation in ceiling lamps cups or in flush-mounted boxes behind the control devices.</p>
○ 3476	 <p>1 relay actuator - for single loads: 2 A resistive or incandescence lamps, 2 A <math>\cos\phi</math> 0.5 for ferromagnetic transformers - a traditional pushbutton with NO contact accepted in input</p>
ACTUATORS FOR ROLLING SHUTTER MANAGEMENT	
○ H4661M2	 <p>Flush-mounted 2-module actuator with 2 internal relays and 4 pushbuttons made to work with the H4660M2 control devices to manage the rolling shutters. In addition to monostable and bistable UP/DOWN operation, the actuator also places the rolling shutter in a stored (PRESET) position.</p>
○ F401	 <p>as above - with 3 pushbuttons - 2 DIN modules</p>

LOADS THAT CAN BE DRIVEN (230 Va.c. 50/60 Hz)							
Actuators	Type						
							
	Energy saving incandescence and halogen lamps	LED lamps	Linear fluorescent lamps <sup>1)</sup>	Compact fluorescent lamps	Electronic transformers <sup>3)</sup>	Ferromagnetic transformers <sup>2) 3)</sup>	Reducer motors for rolling shutters <sup>4)</sup>
H4671M2	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 $\cos\phi$ 0.5 460 VA	2 A 460 W
H4671/1	6 A 1380 W	150 W Max 3 lamps	0.65 A 150 W	150 W Max 3 lamps	0.65 A 150 W	2 A $\cos\phi$ 0.5 460 VA	-
H4678	0.25 - 1.30 A 60 - 300 W	-	-	-	-	0.25 - 1.30 A 60 - 300 VA	-
3475 3476	2 A 460 W	40 W Max 1 lamp	-	40 W Max 1 lamp	-	2 A $\cos\phi$ 0.5 460 VA	-
H4661M2 F401	-	-	-	-	-	-	2 A 250 Va.c.

### 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 rolling shutter reducer motors.

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

# AXOLUTE

## SCS-BUS devices (lights and automation)



F411U1    F411U2    F411/4    F411/1NC

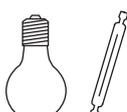
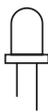
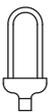
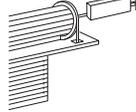


BMSW1002    BMSW1003

Item	ACTUATORS FOR CENTRALISATIONS	
○ F411U1		actuator with 1 two-way relay – for single loads: 16 A resistive, 10 A incandescence lamps, 4 A cosφ 0.5 for ferromagnetic transformers and 4 A for fluorescent lamps - it has "Zero crossing" technology - 2 DIN modules
○ F411U2		actuator with 2 independent relays – for single and double loads: 10 A resistive and 6 A incandescence lamps, 500 W for reducer motors, 2 A cosφ 0.5 for ferromagnetic transformers and 250 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, 500 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
○ 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	
○ BMSW1002		ON/OFF actuator, 2 independent outputs with maximum load 16 A at 230 V a.c., clamp connection and RJ45, IP20 protection index, power supply 100/240 V a.c. 50/60 Hz, pushbuttons for load direct control - zero-crossing function - 4 DIN modules
○ BMSW1003		ON/OFF actuator, 4 independent outputs with maximum load 16 A at 230 V a.c., clamp connection and RJ45, IP20 protection index, power supply 100/240 V a.c. 50/60 Hz, pushbuttons for load direct control - zero-crossing function - 6 DIN modules
○ BMD1002		1/10V dimmer, "Zero Crossing" technology, 4 outputs with maximum load 4.3 A at 230 V a.c., clamp connection, IP20 protection index, 10 DIN modules, power supply 100/240 V a.c. 50/60 Hz, pushbuttons for load direct control
○ 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, 10 DIN modules, power supply 100/240 V a.c. 50/60 Hz, pushbuttons for load direct control

**LOADS THAT CAN BE DRIVEN (250 Va.c. 50/60 Hz)**

Actuators	Type						
							
	Energy saving incandescence and halogen lamps	LED lamps	Linear fluorescent lamps <sup>1)</sup>	Compact fluorescent lamps	Electronic transformers <sup>3)</sup>	Ferromagnetic transformers <sup>2) 3)</sup>	Reducer motors for rolling shutters <sup>4)</sup>
F411U1	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 1380 W	250 W Max 4 lamps	4 A 230 W	250 W Max 4 lamps	4 A 230 W	4 A cosφ 0.5 460 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
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	-
BMSW1002	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	-
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	-
BMD1002	Dimmer for ballast - 4 x 4.3 A outputs 4x 1000VA@ 230 Vac 4x 500VA@ 230 Vac						
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 rolling shutter reducer motors.

# AXOLUTE

## SCS-BUS devices (lights and automation)



F413N    BMDI1001    F414



F416U1    F418U2    F429

Item	DIMMERS FOR CENTRALISATIONS	
○ BMDI1001		1/10V dimmer, 1 output with maximum load 4.3 A at 230 Va.c., clamp connection and RJ45, IP20 protection index, 6 DIN modules, power supply 100/240 Va.c. 50/60 Hz, pushbutton for load direct control - 6 modules
○ 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 – maximum 10 ballast that can be connected (clamps 1-2) - with pushbutton for load direct control - version for fastening on DIN rail - 2 modules
○ F414		1-output dimmer to supply incandescence and halogen lamps with ferromagnetic transformer – power supply 27 Vd.c. – absorption 9 mA - with pushbutton for load direct control - version for fastening on DIN rail - 4 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
○ F418		dimmer for the management of dimmer LEDs, compact fluorescent lamps (CFL), energy saving halogen lamps and electronic transformers at 110-230 V. Power supply 27 Vd.c., absorption 10 mA - version for fastening on DIN rail - 4 modules
○ F418U2		two-channel dimmer for the management of dimmer LEDs, 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 <sup>1)</sup>	Compact fluorescent lamps	Electronic transformers <sup>3)</sup>	Ferromagnetic transformers <sup>2) 3)</sup>	Reducer motors for rolling shutters <sup>4)</sup>
BMDI1001	4.3 A 1000 VA	-	4.3 A 1000 VA	4.3 A 1000 VA	-	-	-
F413N	-	-	2 A 460 W <sup>5)</sup> Max 10 ballast, type T5, T8, compact or driver for LED	-	-	-	-
F414	0.25 - 4.3 A 60 - 1000 VA	-	-	-	-	0.25 - 4.3 A 60 - 1000 VA	-
F416U1	4.3 A 40 - 1000 W	-	-	-	4.3 A 40 - 1000 W	4.3 A 40 - 1000 W	-
F418	1-300 W	1-300 VA	-	1-300 VA	1-300 VA	-	-
F418U2	2x300 VA	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 rolling shutter reducer motors. 5) Only compatible with lamps with 1/10V ballast.

NOTE:  White device     Tech device     Anthracite device     Neutral item

# AXOLUTE

## SCS-BUS devices (temperature control)



H4691



F430R8



F430R3V10



F430V10

Item		<b>THERMOSTAT</b>
○ H4691		flush mounted thermostat 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 features 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. SCS-BUS connection - Sizes: 2 modules.

Item		<b>DIN ACTUATORS</b>
○ 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 - sizes: 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 - sizes: 4 DIN modules
○ F430V10		actuator with 2 x 0-10 Volt outputs for the control of 0-10 proportional valves - SCS-BUS connection - sizes: 2 DIN modules
○ F430/2		2 independent relay actuator for the control of on-off valves, (open-close) motor valves and pumps - 6A resistive, 2A motor valves and pumps - SCS-BUS connection - 2 DIN modules
○ F430/4		4 independent relay actuator - for the control of on-off valves, (open-close) motor valves, pumps and 2-tube fan coil - 4A resistive, 1A motor valves, pumps and fan-coil - SCS-BUS connection - 2 DIN modules

# AXOLUTE

## SCS-BUS devices (interface and accessories)



E46ADCN



3515



3510M



3511



3512

Item		<b>POWER SUPPLIES</b>
<input type="radio"/> E46ADCN		power supply - input 230 Va.c. output 27 Vd.c. SELV – maximum consumption 300 mA – maximum output current: 1.2 A - DIN rail mounted model - space requirement 8 DIN modules – for flush mounted or wall mounted switchboards
<input type="radio"/> E49		compact power supply - input 230 Va.c. - output 27 Vd.c. - maximum current provided 600 mA - Sizes: 2 DIN modules

		<b>CONTACT INTERFACE</b>
<input type="radio"/> 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
<input type="radio"/> F428		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 twoway switch, or interlocked pushbuttons - 2 DIN modules

Item		<b>VARIOUS ACCESSORIES</b>
<input type="radio"/> 3515		spare removable clamp

		<b>MAGNETIC CONTACTS</b>
<input type="radio"/> 3510		NC electromagnetic contact interface detectors and protection line - flush mounted version
<input type="radio"/> 3510M		NC electromagnetic contact interface detectors and protection line – made of brass with high mechanical resistance, for installation in non ferromagnetic material windows and doors, or in low section doors and windows
<input type="radio"/> 3510PB		NC electromagnetic contact interface detectors and protection line – made of brass, with high mechanical resistance for installation in all types of doors and windows and reinforced doors.
<input type="radio"/> 3511		NC electromagnetic contact interface detectors and protection line - visible mounted version
<input type="radio"/> 3512		NC electromagnetic contact interface detectors and protection line – made of die cast aluminium, for installation on tilting or sliding doors. Preset for floor installation.
<input type="radio"/> 3513		NC electromagnetic contact interface detectors and protection line - version for visible installation on metal surfaces

NOTE:  White device

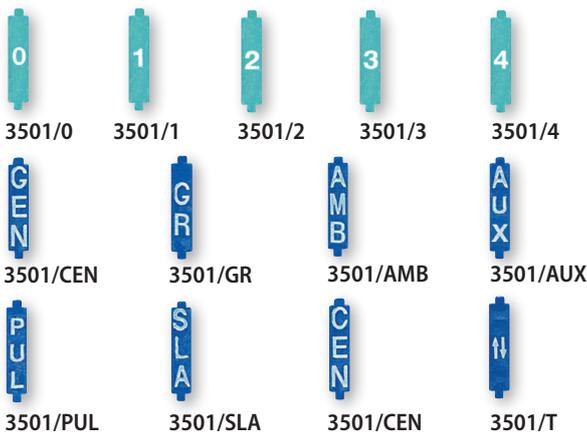
Tech device

Anthracite device

Neutral item

# AXOLUTE

## SCS-BUS devices (accessories)



Item	CONFIGURATORS – SINGLE-TYPE PACKAGE OF 10 PIECES
<input type="radio"/> 3501/0	configurator 0
<input type="radio"/> 3501/1	configurator 1
<input type="radio"/> 3501/2	configurator 2
<input type="radio"/> 3501/3	configurator 3
<input type="radio"/> 3501/4	configurator 4
<input type="radio"/> 3501/5	configurator 5
<input type="radio"/> 3501/6	configurator 6
<input type="radio"/> 3501/7	configurator 7
<input type="radio"/> 3501/8	configurator 8
<input type="radio"/> 3501/9	configurator 9
<input type="radio"/> 3501/CEN	configurator GEN
<input type="radio"/> 3501/GR	configurator GR
<input type="radio"/> 3501/AMB	configurator AMB
<input type="radio"/> 3501/AUX	configurator AUX
<input type="radio"/> 3501/ON	configurator ON
<input type="radio"/> 3501/OFF	configurator OFF
<input type="radio"/> 3501/OI	configurator OI
Item	CONFIGURATORS – SINGLE-TYPE PACKAGE OF 10 PIECES
<input type="radio"/> 3501/PUL	configurator PUL
<input type="radio"/> 3501/SLA	configurator SLA
<input type="radio"/> 3501/CEN	configurator CEN
<input type="radio"/> 3501/T	configurator ↑↓
<input type="radio"/> 3501/TM	configurator ↑↓ M

Item	CONFIGURATOR KIT
<input type="radio"/> 3501K	Configurator kit from No. 0 to No. 9
<input type="radio"/> 3501K/1	Kit of configurators AUX, GEN, GR, AMB, ON, OFF, O/I, PUL, SLA, CEN, ↑↓, ↑↓M
Item	CONNECTION CABLES
<input type="radio"/> 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
<input type="radio"/> L4669/500	As above, coil length 500 metres
<input type="radio"/> L4669KM1	as above - reel length 1000 metres
<input type="radio"/> 336904	specific cable with 2 twisted conductors. It can be installed in underground piping, in accordance with CEI 20-13 and CEI 20-14 standards. - coil length 200 metres
<input type="radio"/> L4669HF	as above - low toxicity cable without halogens - ideal for application in environments where fire hazard safety is critical - coil length 200 metres

FOR MORE INFORMATION ON THE DESIGN AND INSTALLATION OF THE SCS-BUS SOLUTIONS SEE THE SPECIFIC MyHOME TECHNICAL GUIDE

[www.catalogo-sfogliabile.bticino.it/myhomegb/](http://www.catalogo-sfogliabile.bticino.it/myhomegb/)



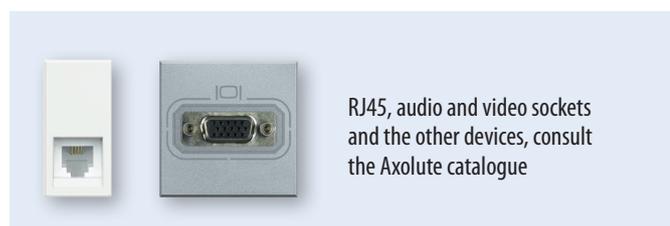
NOTE:  White device     Tech device     Anthracite device     Neutral item

# AXOLUTE

## Traditional devices



Item		<b>KEY CARD SWITCH</b>
<input type="radio"/> H4549		key card switch for the power supply inside the hotel room - slot light with built-in lamp - 30 second switch-off delay - power supply 230 Va.c. - 2 modules - to be completed with front cover in the desired look
<input type="radio"/> H4548		key card switch for the power supply inside the hotel room with RFID technology recognition - slot light with built-in lamp - 30 second switch off delay - power supply 230 Va.c. - 2 modules - to be completed with front cover in the desired look
<b>LAMPHOLDER FOR OFF-DOOR NOTIFICATION</b>		
<input type="radio"/> H4372V230H		off-door lampholder with double optical notification: do not disturb and make up room – use 2 LEDs item LN4742V12T (12V)
<b>SHAVER SOCKETS</b>		
<input type="checkbox"/> HD4177 <input type="checkbox"/> HC4177 <input type="checkbox"/> HS4177		shaver socket with insulation transformer - input voltage 230 Va.c. 50/60 hz - output voltage 115/230 Va.c. 20 VA
<b>PULL-CORD PUSHBUTTON</b>		
<input type="checkbox"/> HD4033 <input type="checkbox"/> HC4033 <input type="checkbox"/> HS4033		cord pushbutton 1 P NO 10 A for bathroom alarm
<b>USB CHARGERS</b>		
<input type="checkbox"/> HD4285C <input type="checkbox"/> HC4285C <input type="checkbox"/> HS4285C		5 Vdc USB socket for charging electronic devices up to 750 mA like mobile phones, smartphones, tablets and similar – 230 Vac power supply
<input type="checkbox"/> HD4285C2 <input type="checkbox"/> HC4285C2 <input type="checkbox"/> HS4285C2		5 Vdc USB socket for quick charge of one single electronic device (mobile phones, smartphones, tablets or similar) up to 1.550 mA or simultaneous charging of two devices up to 750 mA – 230 Vac power supply



RJ45, audio and video sockets and the other devices, consult the Axolute catalogue

NOTE:  White device     Tech device     Anthracite device

## Finishing accessories for SCS-BUS and traditional devices



Item		<b>FRONT COVERS FOR KEY CARD SWITCHES</b>
<input type="checkbox"/> HD4547 <input type="checkbox"/> HC4547 <input type="checkbox"/> HS4547		front cover for traditional or SCS key card switch - 2 modules
<b>KEY COVERS WITH SYMBOLS FOR SCS CONTROL</b>		
<input type="checkbox"/> HD4915DD <input type="checkbox"/> HC4915DD <input type="checkbox"/> HS4915DD		"Do not disturb" key covers
<input type="checkbox"/> HD4915M2DD <input type="checkbox"/> HC4915M2DD <input type="checkbox"/> HS4915M2DD		"Do not disturb" key covers - 2 modules
<input type="checkbox"/> HD4915MR <input type="checkbox"/> HC4915MR <input type="checkbox"/> HS4915MR		"Make up the room" key covers
<input type="checkbox"/> HD4915BL <input type="checkbox"/> HC4915BL <input type="checkbox"/> HS4915BL		"Room light" key covers
<input type="checkbox"/> HD4915M2BL <input type="checkbox"/> HC4915M2BL <input type="checkbox"/> HS4915M2BL		"Room light" key covers - 2 modules
<b>KEY COVER WITH SYMBOLS FOR AXIAL CONTROLS</b>		
<input type="checkbox"/> HD4921BL <input type="checkbox"/> HC4921BL <input type="checkbox"/> HS4921BL		"Bed light" key covers
<input type="checkbox"/> HD4921M2BL <input type="checkbox"/> HC4921M2BL <input type="checkbox"/> HS4921M2BL		"Bed light" key covers - 2 modules
<input type="checkbox"/> HD4921DD <input type="checkbox"/> HC4921DD <input type="checkbox"/> HS4921DD		"Do not disturb" key covers
<input type="checkbox"/> HD4921MR <input type="checkbox"/> HC4921MR <input type="checkbox"/> HS4921MR		"Make up the room" key covers

Neutral item

# AXOLUTE

## Room insulation remote switch

The contactors must be used in the system to switch off some loads or devices in the room when the guest is not present (key card not in the switch).



FT1A2N24



FT2A3N230



FT1A2N24S

Item	AC3 CONTACTORS			
	In = 25A			
	Vn (Vac)	In (A)	Contact	No. of modules
FT1AC1N24	24		1NO+1NC	1
FT1A2N24			2 NO	1
FT2A4N24			4 NO	2
FT1AC1N230			1NO+1NC	1
FT1A2N230	230	25	2 NO	1
FT2A3N230			3 NO	2
FT2A4N230			4 NO	2
FT2AC2N230			2NO+2NC	2
FT1C2N230			2NC	1
FT2C4N230			4 NC	2

Item	AC7A CONTACTORS			
	Vn (Vac)	In (A)	Contact	No. of modules
FT1A2N24M	24	25	2 NO	1
FT1A1N230M	230		1NO	1
FT1A2N230M			2 NO	1
FT2A4N230M			4 NO	2
<b>In = 40-63A</b>				
FC2A4/24N	24	40	2 NO	2
FC4A4/24N			4 NO	3
FC4A6/24N			63	4 NO
FC2A4/230N	230	40	2 NO	2
FC3A4/230N			3 NO	3
FC4A4/230N			4 NO	3
FC4A6/230N			63	4 NO

<b>SILENT</b>				
Item	Vn (Vac)	In (A)	Contact	No. of modules
FT1A1N24S	24	25	1NO	1
FT1A2N24S			2 NO	1
FT1A1N230S	230		1NO	1
FT1A2N230S		2 NO	2	

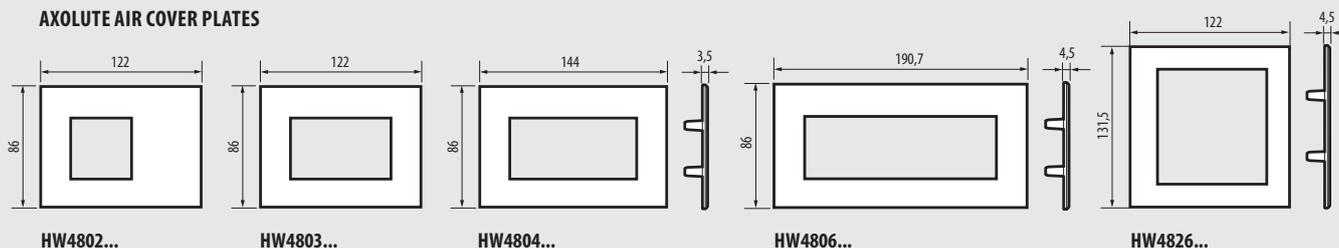
### TECHNICAL FEATURES

- Reference standards: CEI EN 61095
- Rated pulse voltage Uimp (kV): 4
- Rated reel voltage Vn (Vac): 24 or 230
- Rated insulating voltage Ui (Vac): 500
- Rated current In (A) at 30°C: 25-40-63
- Conditioned short-circuit current (kA): 3
- Rated frequency (Hz): 50/60
- Operating temperature (°C): -25 to 40
- Max No. of mechanical manoeuvres 1000000
- Power consumption for each pole (W): 1.5
- Protection index (terminal area/other areas): IP20/IP40
- Maximum section of connectable flexible/rigid cable (mm<sup>2</sup>): see table

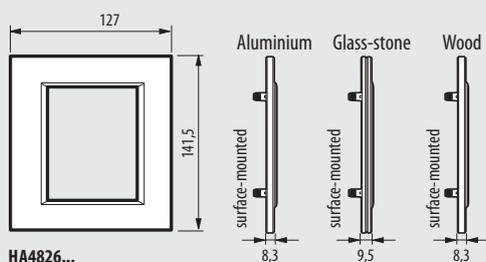
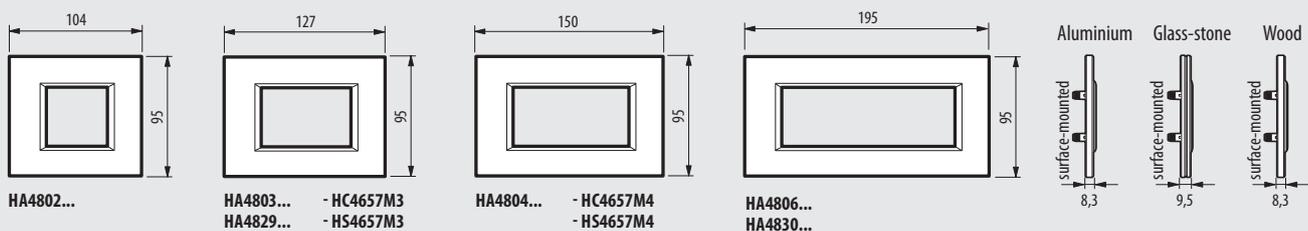
# AXOLUTE

## Dimensional data

### AXOLUTE AIR COVER PLATES



### AXOLUTE RECTANGULAR COVER PLATES



### AXOLUTE ELLIPTICAL COVER PLATES

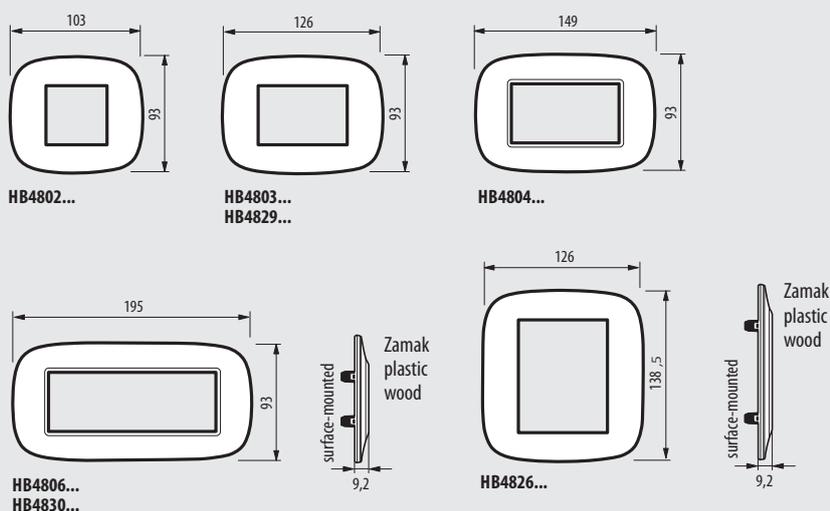
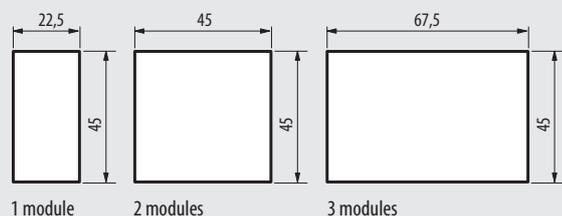
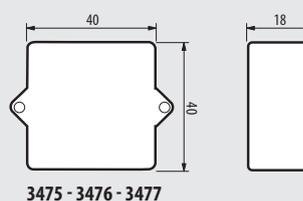


TABLE WITH DIN SIZES (mm)			
No. of modules	A	B	C
1	17.5	82	66
2	35	82	66
3	52.5	82	66
4	70	82	66
5	87.5	82	66
6	105	82	66
7	122.5	82	66
8	140	82	66
9	157.5	82	66
10	175	82	66
12	210	82	66

### MODULAR DEVICES



### BASIC INTERFACE MODULE



# LIVINGLIGHT

## hotel solutions

A complete offer for a state of the art electric system inside the whole welcoming establishment and in particular inside the hotel room. All this to ensure that customers feel immediately at ease. The offer includes both standard traditional functions, and more advanced functions.

### DESIGNED TO IMPROVE THE COMFORT OF THE CUSTOMER

A solution for all kinds of hotels



STANDARD EQUIPMENT



EQUIPMENT INCLUDING SPECIFIC PRODUCTS FOR THE SCS-BUS ROOM



The BTicino offer for the rooms, and in wider terms for the whole hotel establishment, includes many more devices that are normally also used for other applications.

Request or view the Livinglight catalogue

# LIVINGLIGHT

## SCS-BUS devices (specific for the hotel)

This page lists the devices for hotel comfort and access control solutions.



LN4650



LN4651



LN4653



348402



MH201



F458



F459



3544SW  
3546SW

Item		KEY CARD SWITCHES
<input type="radio"/> LN4649		key card switch for function activation in the hotel room - slot light with built-in lamp - SCS-BUS connection - sizes: 2 modules - to be completed with front cover in the desired look
<input type="radio"/> LN4648		key card switch for function activation in the hotel room with RFID technology recognition - slot light with built-in lamp - SCS-BUS connection - sizes: 2 modules - to be completed with front cover in the desired look
<b>CONTROL INDICATORS FOR ROOM MANAGEMENT</b>		
<input type="radio"/> LN4650		DO NOT DISTURB – MAKE UP THE ROOM indicator and bell pushbutton - SCS-BUS connection - sizes: 2 modules
<input type="radio"/> LN4651		key card reader in RFID technology + DO NOT DISTURB – MAKE UP THE ROOM indicator and bell pushbutton - SCS-BUS connection - sizes: 2 modules
<input type="radio"/> LN4653		DO NOT DISTURB – MAKE UP THE ROOM control to be completed with key covers - SCS-BUS connection - sizes: 2 modules
<b>KEY CARDS AND KEY CARD PROGRAMMER</b>		
<input type="radio"/> 3547		Credit card key card (ISO 50x80 mm). It uses transponder technology Mifare classic ISO14443 type A. To be used together with the key card programmer, item code 348402. The key card can be customised and is sold in lots of 5 pieces. Compatible with reader H4651 starting from production batch 14W40.
<input type="radio"/> 348402		Table-top key card programmer to be connected to the PC in the reception.

Item		IP SCENARIO MODULE
<input type="radio"/> MH201		it manages scenarios related to hotel rooms - it works as a gateway for the Configuration and Supervisione software - it is necessary to install one module for each room or zone - SCS-BUS and ethernet network connection - sizes: 1 DIN module
<b>SCENARIO MODULE</b>		
<input type="radio"/> F420		device to save 16 scenarios for the Automation, Sound system, Temperature control and Video door entry applications - 2 DIN modules
<b>IP SERVER</b>		
<input type="radio"/> F458		IP SERVER to be used in systems with over 100 rooms or zones (over 100 MH201 installed). Size: 6 DIN modules
<b>DRIVER MANAGER</b>		
<input type="radio"/> F459		integration platform with other brand systems. Size: 6 DIN modules
Contact the BTicino System Integration Service to check the feasibility of specific integrations and to request the licence needed to use the Driver manager (Toll free number 800.837035)		
<b>SOFTWARE</b>		
<input type="radio"/> 3544SW		Licence for the software for the room status supervision, the basic management and the key card programming for a Hotel with up to 20 rooms
<input type="radio"/> 3546SW		Licence for the software as above – for a Hotel with more than 20 rooms

NOTE: To request integration with PMS which use FIAS protocol (e.g. Fidelio) contact the BTicino Sale Service.

NOTE:  White device     Tech device     Anthracite device     Neutral item

# LIVINGLIGHT

## SCS-BUS devices (lights and automation)



LN4651M2



LN4652/2



LN4652/3



N4680



L4680



LN4652

Item		CONTROLS
○ 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 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
<b>CONTROLS FOR SINGLE OR DOUBLE LOADS</b>		
○ 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

Item		CONTROL FOR ROLLING SHUTTER MANAGEMENT
○ LN4660M2		2 module flush mounted control with reduced thickness with 3 pushbuttons, only suitable for operation with advanced actuators LN4661M2 and F401, specific for the management of rolling shutters. In addition to monostable and bistable UP/DOWN operation, the device also places the rolling shutter in a stored (PRESET) position.
<b>SCENARIO CONTROL</b>		
<input type="checkbox"/> L4680 <input checked="" type="checkbox"/> N4680 <input checked="" type="checkbox"/> NT4680		customisable scenario control to control 4 independent "room situations" - 2 modules
○ LN4652		8-KEY control for light management, rolling shutter automation, sound system and scenarios - SCS-BUS connection - sizes: 2 modules
○ 3541 ○ 3542		A5 sheets for the customisation of the symbols of item H4652 3541 = black; 3542 = white; The sheets can be customised using the tool found in the MyHOME_Suite configuration software.

# LIVINGLIGHT

## SCS-BUS devices (lights and automation)



Item		<b>ACTUATORS AND FLUSH MOUNTED ACTUATORS/ DIMMERS</b>
○ LN4671M2		actuator/control with 2 independent relays - for single, double or mixed loads: 2 A resistive, 2 A incandescence lamps, 500 W for reducer motors, 2 A cosφ 0.5 for ferromagnetic transformers and 70 W for fluorescent lamps - logic relay interlock via configuration. The device can be also configured to manage a remote actuator - 2 modules
○ L4671/1		1 relay actuator with control key - for single loads: 6 A resistive or incandescence lamps, 2 A cosφ 0.5 for ferromagnetic transformers and 150 W fluorescent lamps - to be completed with 2-module key covers for single or double function
○ L4678		dimmer actuator for incandescence lamps and ferromagnetic transformers - 60 - 300 VA 230 Va.c. - to be completed with 2-module key covers for single or double function - 2 modules

Item		<b>BASIC MODULE ACTUATOR</b>
○ 3475		1 relay actuator - for single loads: 2 A resistive or incandescence lamps and 2 A cosφ 0.5 for ferromagnetic transformers - suitable for installation in ceiling lamps cups or in flush-mounted boxes behind the control devices.
○ 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
<b>ACTUATORS FOR ROLLING SHUTTER MANAGEMENT</b>		
○ LN4661M2		Flush-mounted 2-module actuator with 2 internal relays and 4 pushbuttons made to work with the LN4660M2 control devices to manage the rolling shutters. In addition to monostable and bistable UP/DOWN operation, the actuator also places the rolling shutter in a stored (PRESET) position.
○ F401		as above - with 3 pushbuttons - 2 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 <sup>1)</sup>	Compact fluorescent lamps	Electronic transformers <sup>3)</sup>	Ferromagnetic transformers <sup>3)2)</sup>	Reducer motors for rolling shutters <sup>4)</sup>
LN4671M2	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
L4671/1	6 A 1380 W	150 W Max 3 lamps	0.65 A 150 W	150 W Max 3 lamps	0.65 A 150 W	2 A cosφ 0.5 460 VA	- -
L4678	0.25 - 1.30 A 60 - 300 W	- -	- -	- -	- -	0.25 - 1.30 A 60 - 300 VA	- -
3475 3476	2 A 460 W	40 W Max 1 lamp	- -	40 W Max 1 lamp	- -	2 A cosφ 0.5 460 VA	- -
LN4661M2 F401	-	-	-	-	-	-	2 A 250 Va.c.

#### 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 rolling shutter reducer motors.

NOTE:  White device     Tech device     Anthracite device     Neutral item

# LIVINGLIGHT

## SCS-BUS devices (lights and automation)



F411U1 F411U2 F411/4 F411/1NC

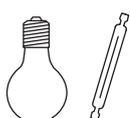
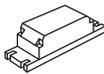
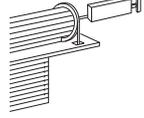
Item	ACTUATORS FOR CENTRALISATIONS	
○ F411U1		actuator with 1 two-way relay – for single loads: 16 A resistive, 10 A incandescence lamps, 4 A cosφ 0.5 for ferromagnetic transformers and 4 A for fluorescent lamps - it has "Zero crossing" technology - 2 DIN modules
○ F411U2		actuator with 2 independent relays – for single and double loads: 10 A resistive and 6 A incandescence lamps, 500 W for reducer motors, 2 A cosφ 0.5 for ferromagnetic transformers and 250 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, 500 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
○ 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



BMSW1002 BMSW1003

Item	ACTUATORS FOR CENTRALISATIONS	
○ BMSW1002		ON/OFF actuator, 2 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 - 4 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
○ BMD11002		1/10V dimmer, "Zero Crossing" technology, 4 outputs with maximum load 4.3 A at 230 V a.c., clamp connection, IP20 protection index, 10 DIN modules, power supply 100/240 V a.c. 50/60 Hz, pushbuttons for load direct control
○ 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, 10 DIN modules, power supply 100/240 V a.c. 50/60 Hz, pushbuttons for load direct control

### LOADS THAT CAN BE DRIVEN (250 Va.c. 50/60 Hz)

Actuators	Type						
							
F411U1	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 1380 W	250 W Max 4 lamps	4 A 230 W	250 W Max 4 lamps	4 A 230 W	4 A cosφ 0.5 460 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
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	-
BMSW1002	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	-
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	-
BMD11002	Dimmer for ballast - 4 x 4.3 A outputs 4x 1000VA@ 230 Vac 4x500VA@ 230 Vac						
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 rolling shutter reducer motors.

# LIVINGLIGHT

## SCS-BUS devices (lights and automation)



F413N    BMDI1001    F414



F416U1

Item	DIMMERS FOR CENTRALISATIONS	
○ BMDI1001		1/10V dimmer, 1 output with maximum load 4.3 A at 230 Va.c., clamp connection and RJ45, IP20 protection index, 6 DIN modules, power supply 100/240 Va.c. 50/60 Hz, pushbutton for load direct control - 6 modules
○ 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 – maximum 10 ballast that can be connected (clamps 1-2) - with pushbutton for load direct control - version for fastening on DIN rail - 2 modules
○ F414		1-output dimmer to supply incandescence and halogen lamps with ferromagnetic transformer – power supply 27 Vd.c. – absorption 9 mA - with pushbutton for load direct control - version for fastening on DIN rail - 4 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
○ F418		dimmer for the management of dimmer LEDs, compact fluorescent lamps (CFL), energy saving halogen lamps and electronic transformers at 110-230 V. Power supply 27 Vd.c., absorption 10 mA - version for fastening on DIN rail - 4 modules
○ F418U2		two-channel dimmer for the management of dimmer LEDs, 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 <sup>1)</sup>	Compact fluorescent lamps	Electronic transformers <sup>3)</sup>	Ferromagnetic transformers <sup>2) 3)</sup>	Reducer motors for rolling shutters <sup>4)</sup>
BMDI1001	4.3 A 1000 VA	-	4.3 A 1000 VA	4.3 A 1000 VA	-	-	-
F413N	-	-	2 A 460 W <sup>5)</sup> Max 10 ballast, type T5, T8, compact or driver for LED	-	-	-	-
F414	0.25 - 4.3 A 60 - 1000 VA	-	-	-	-	0.25 - 4.3 A 60 - 1000 VA	-
F416U1	4.3 A 40 - 1000 W	-	-	-	4.3 A 40 - 1000 W	4.3 A 40 - 1000 W	-
F418	1-300 W	1-300 VA	-	1-300 VA	1-300 VA	-	-
F418U2	2x300 VA	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 rolling shutter reducer motors. 5) Only compatible with lamps with 1/10V ballast.

NOTE:  White device     Tech device     Anthracite device     Neutral item

# LIVINGLIGHT

## SCS-BUS devices (temperature control)



LN4691



F430R8



F430R3V10



F430V10

Item

### THERMOSTAT

○ LN4691



flush mounted thermostat 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 features 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. SCS-BUS connection - Sizes: 2 modules.

Item

### DIN ACTUATORS

○ 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 - sizes: 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 - sizes: 4 DIN modules

○ F430V10



actuator with 2 x 0-10 Volt outputs for the control of 0-10 proportional valves - SCS-BUS connection - sizes: 2 DIN modules

○ F430/2



2 independent relay actuator for the control of on-off valves, (open-close) motor valves and pumps - 6A resistive, 2A motor valves and pumps - SCS-BUS connection - 2 DIN modules

○ F430/4



4 independent relay actuator - for the control of on-off valves, (open-close) motor valves, pumps and 2-tube fan coil - 4A resistive, 1A motor valves, pumps and fan-coil - SCS-BUS connection - 2 DIN modules

# LIVINGLIGHT

## SCS-BUS devices (interface and accessories)



E46ADCN



3515



3510M



3511



3512

Item		POWER SUPPLIES
○ E46ADCN		power supply - input 230 Va.c. output 27 Vd.c. SELV – maximum consumption 300 mA – maximum output current: 1.2 A - DIN rail mounted model - space requirement 8 DIN modules – for flush mounted or wall mounted switchboards
○ E49		compact power supply - input 230 Va.c. - output 27 Vd.c. - maximum current provided 600 mA - Sizes: 2 DIN modules

		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		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 twoway switch, or interlocked pushbuttons - 2 DIN modules

Item		VARIOUS ACCESSORIES
○ 3515		spare removable clamp

		MAGNETIC CONTACTS
○ 3510		NC electromagnetic contact interface detectors and protection line - flush mounted version
○ 3510M		NC electromagnetic contact interface detectors and protection line – made of brass with high mechanical resistance, for installation in non ferromagnetic material windows and doors, or in low section doors and windows
○ 3510PB		NC electromagnetic contact interface detectors and protection line – made of brass, with high mechanical resistance for installation in all types of doors and windows and reinforced doors.
○ 3511		NC electromagnetic contact interface detectors and protection line - visible mounted version
○ 3512		NC electromagnetic contact interface detectors and protection line – made of die cast aluminium, for installation on tilting or sliding doors. Preset for floor installation.
○ 3513		NC electromagnetic contact interface detectors and protection line - version for visible installation on metal surfaces

NOTE: □ White device

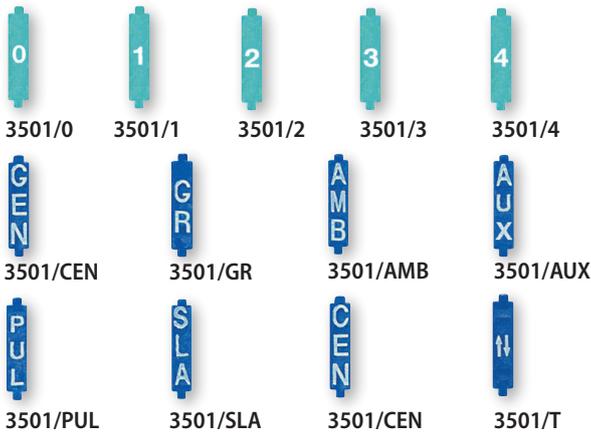
■ Tech device

■ Anthracite device

○ Neutral item

# LIVINGLIGHT

## SCS-BUS devices (accessories)



CONFIGURATORS – SINGLE-TYPE PACKAGE OF 10 PIECES	
○ 3501/0	configurator 0
○ 3501/1	configurator 1
○ 3501/2	configurator 2
○ 3501/3	configurator 3
○ 3501/4	configurator 4
○ 3501/5	configurator 5
○ 3501/6	configurator 6
○ 3501/7	configurator 7
○ 3501/8	configurator 8
○ 3501/9	configurator 9
○ 3501/CEN	configurator GEN
○ 3501/GR	configurator GR
○ 3501/AMB	configurator AMB
○ 3501/AUX	configurator AUX
○ 3501/ON	configurator ON
○ 3501/OFF	configurator OFF
○ 3501/OI	configurator OI
CONFIGURATORS – SINGLE-TYPE PACKAGE OF 10 PIECES	
○ 3501/PUL	configurator PUL
○ 3501/SLA	configurator SLA
○ 3501/CEN	configurator CEN
○ 3501/T	configurator ↑↓
○ 3501/TM	configurator ↑↓ M

CONFIGURATOR KIT	
○ 3501K	Configurator kit from No. 0 to No. 9
○ 3501K/1	Kit of configurators AUX, GEN, GR, AMB, ON, OFF, O/I, PUL, SLA, CEN, ↑↓, ↑↓ M
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, coil length 500 metres
○ L4669KM1	as above - reel length 1000 metres
○ 336904	specific cable with 2 twisted conductors. It can be installed in underground piping, in accordance with CEI 20-13 and CEI 20-14 standards. - coil length 200 metres
○ L4669HF	as above - low toxicity cable without halogens - ideal for application in environments where fire hazard safety is critical - coil length 200 metres

FOR MORE INFORMATION ON THE DESIGN AND INSTALLATION OF THE SCS-BUS SOLUTIONS SEE THE SPECIFIC MyHOME TECHNICAL GUIDE

[www.catalogo-sfogliabile.bticino.it/myhomegb/](http://www.catalogo-sfogliabile.bticino.it/myhomegb/)



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

## LIVINGLIGHT Traditional devices



LN4549



L4177



N4033



N4373H

Item		KEY CARD SWITCH
<input type="checkbox"/> LN4549		key card switch for the power supply inside the hotel room - slot light with built-in lamp - 30 second switch-off delay - power supply 230 Va.c. - 2 modules - to be completed with front cover in the desired look
<input type="checkbox"/> LN4548		key card switch for the power supply inside the hotel room with RFID technology recognition - slot light with built-in lamp - 30 second switch off delay - power supply 230 Va.c. - 2 modules - to be completed with front cover in the desired look

		LAMPHOLDER FOR OFF-DOOR NOTIFICATION
<input type="checkbox"/> N4373H <input type="checkbox"/> NT4373H <input type="checkbox"/> L4373H		off-door lampholder with double optical notification: do not disturb and make up room - use 2 LEDs item LN4742V12T (12V)

		SHAVER SOCKETS
<input type="checkbox"/> N4177* <input type="checkbox"/> NT4177* <input type="checkbox"/> L4177*		shaver socket with insulation transformer - input voltage 230 Va.c. 50/60 hz - output voltage 115/230 Va.c. 20 VA

\* **NOTE:** In case of installation using AIR cover plates, the box extension must be used to make wiring easier

		PULL-CORD PUSHBUTTON
<input type="checkbox"/> N4033 <input type="checkbox"/> NT4033 <input type="checkbox"/> L4033		cord pushbutton 1 P NO 10 A for bathroom alarm

## Finishing accessories for SCS and traditional devices



NT4547



NT4915DD



NT4915MR



NT4915TN



N4915SETBL

Item		FRONT COVERS FOR KEY CARD SWITCHES
<input type="checkbox"/> N4547 <input type="checkbox"/> NT4547 <input type="checkbox"/> L4547		front cover for traditional or SCS key card switch - 2 modules
<input type="checkbox"/> N4551 <input type="checkbox"/> NT4551 <input type="checkbox"/> L4551		front cover for traditional or SCS key card switch - 3 modules

		KEY COVERS WITH SYMBOLS FOR SCS CONTROL
<input type="checkbox"/> N4915DD <input type="checkbox"/> NT4915DD <input type="checkbox"/> L4915DD		key cover for rocker control devices with "do not disturb" symbol
<input type="checkbox"/> N4915MR <input type="checkbox"/> NT4915MR <input type="checkbox"/> L4915MR		key cover for rocker control devices with "make up room" symbol
<input type="checkbox"/> N4915M2DD <input type="checkbox"/> NT4915M2DD <input type="checkbox"/> L4915M2DD		"DO NOT DISTURB" key covers - 2 modules

		KEY COVERS THAT CAN BE CUSTOMISED AND KIT OF DIFFUSERS
<input type="checkbox"/> N4915TN <input type="checkbox"/> NT4915TN <input type="checkbox"/> L4915TN		key cover for rocker control devices that can be customised with lightable diffuser
<input type="checkbox"/> N4915SETBL <input type="checkbox"/> NT4915SETBL <input type="checkbox"/> L4915SETBL		kit of 50 lightable diffusers with bed light symbol



RJ45, audio and video sockets and the other devices, consult the Livinglight catalogue

NOTE:  White device

Tech device

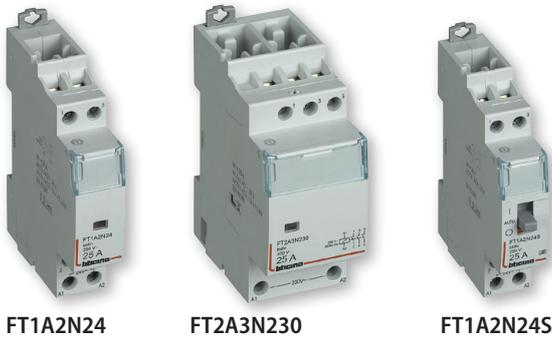
Anthracite device

Neutral item

# LIVINGLIGHT

## Room insulation remote switch

The contactors must be used in the system to switch off some loads or devices in the room when the guest is not present (key card not in the switch).



AC3 CONTACTORS				
In = 25A				
Item	Vn (Vac)	In (A)	Contact	No. of modules
FT1AC1N24	24		1NO+1NC	1
FT1A2N24			2 NO	1
FT2A4N24			4 NO	2
FT1AC1N230			1NO+1NC	1
FT1A2N230	230	25	2 NO	1
FT2A3N230			3 NO	2
FT2A4N230			4 NO	2
FT2AC2N230			2NO+2NC	2
FT1C2N230			2NC	1
FT2C4N230			4 NC	2

AC7A CONTACTORS				
Item	Vn (Vac)	In (A)	Contact	No. of modules
FT1A2N24M	24	25	2 NO	1
FT1A1N230M	230		1NO	1
FT1A2N230M			2 NO	1
FT2A4N230M			4 NO	2
In = 40-63A				
FC2A4/24N	24	40	2 NO	2
FC4A4/24N			4 NO	3
FC4A6/24N			63	4 NO
FC2A4/230N	230	40	2 NO	2
FC3A4/230N			3 NO	3
FC4A4/230N			4 NO	3
FC4A6/230N			63	4 NO

SILENT				
Item	Vn (Vac)	In (A)	Contact	No. of modules
FT1A1N24S	24	25	1NO	1
FT1A2N24S			2 NO	1
FT1A1N230S	230		1NO	1
FT1A2N230S			2 NO	2

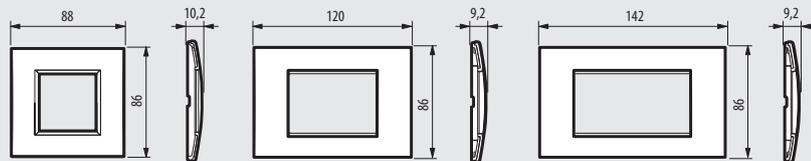
**TECHNICAL FEATURES**

- Reference standards: CEI EN 61095
- Rated pulse voltage Uimp (kV): 4
- Rated reel voltage Vn (Vac): 24 or 230
- Rated insulating voltage Ui (Vac): 500
- Rated current In (A) at 30°C: 25-40-63
- Conditioned short-circuit current (kA): 3
- Rated frequency (Hz): 50/60
- Operating temperature (°C): -25 to 40
- Max No. of mechanical manoeuvres 1000000
- Power consumption for each pole (W): 1.5
- Protection index (terminal area/other areas): IP20/IP40
- Maximum section of connectable flexible/rigid cable (mm<sup>2</sup>): see table

# LIVINGLIGHT

## Dimensional data

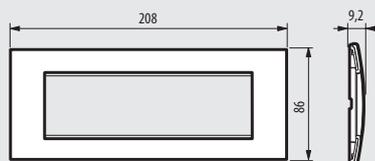
### SQUARE COVER PLATES



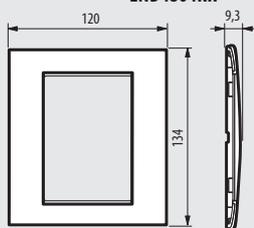
LNA4802...  
LND4802KR

LNA4803...  
LNA4819...  
LND4803KR  
LND4819KR

LNA4804...  
LND4804KR

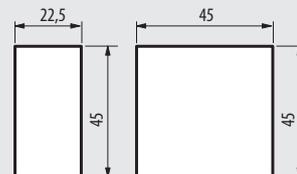


LNA4807...  
LND4807KR

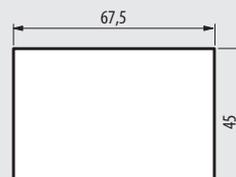


LNA4826...  
LND4826KR

### MODULAR DEVICES

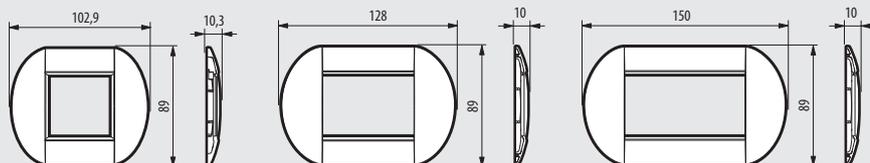


1 module      2 modules



3 modules

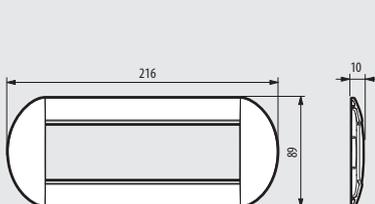
### ROUND COVER PLATES



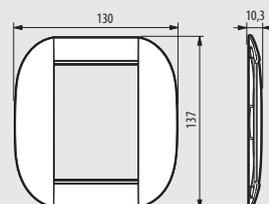
LNB4802...

LNB4803...

LNB4804...

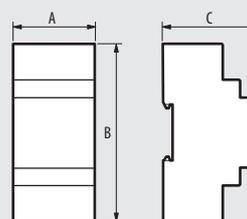


LNB4807...



LNB4826...

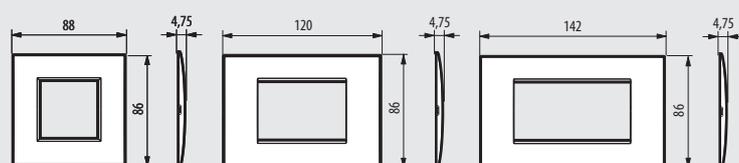
### DIN DEVICES



2 DIN modules

TABLE WITH DIN SIZES (mm)			
No. of modules	A	B	C
1	17.5	82	66
2	35	82	66
3	52.5	82	66
4	70	82	66
5	87.5	82	66
6	105	82	66
7	122.5	82	66
8	140	82	66
9	157.5	82	66
10	175	82	66
12	210	82	66

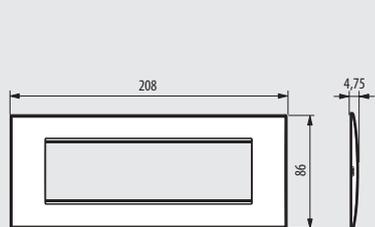
### LIVINGLIGHT AIR COVER PLATES



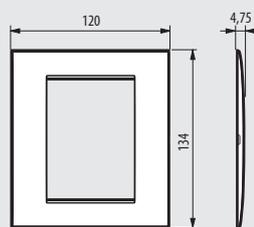
LNC4802...

LNC4803...

LNC4804...

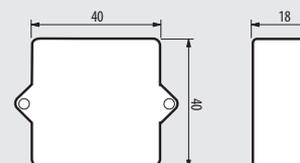


LNC4807...



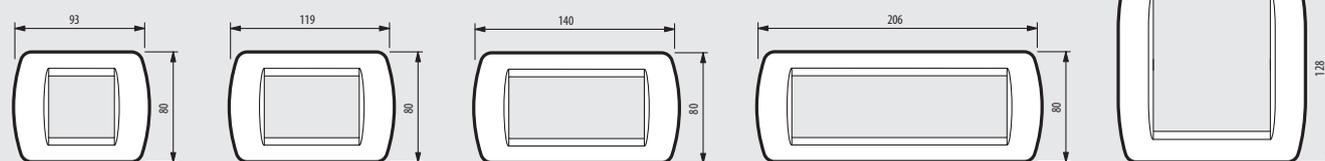
LNC4826...

### BASIC INTERFACE MODULE



3475 - 3476 - 3477

### LIVING INTERNATIONAL COVER PLATES



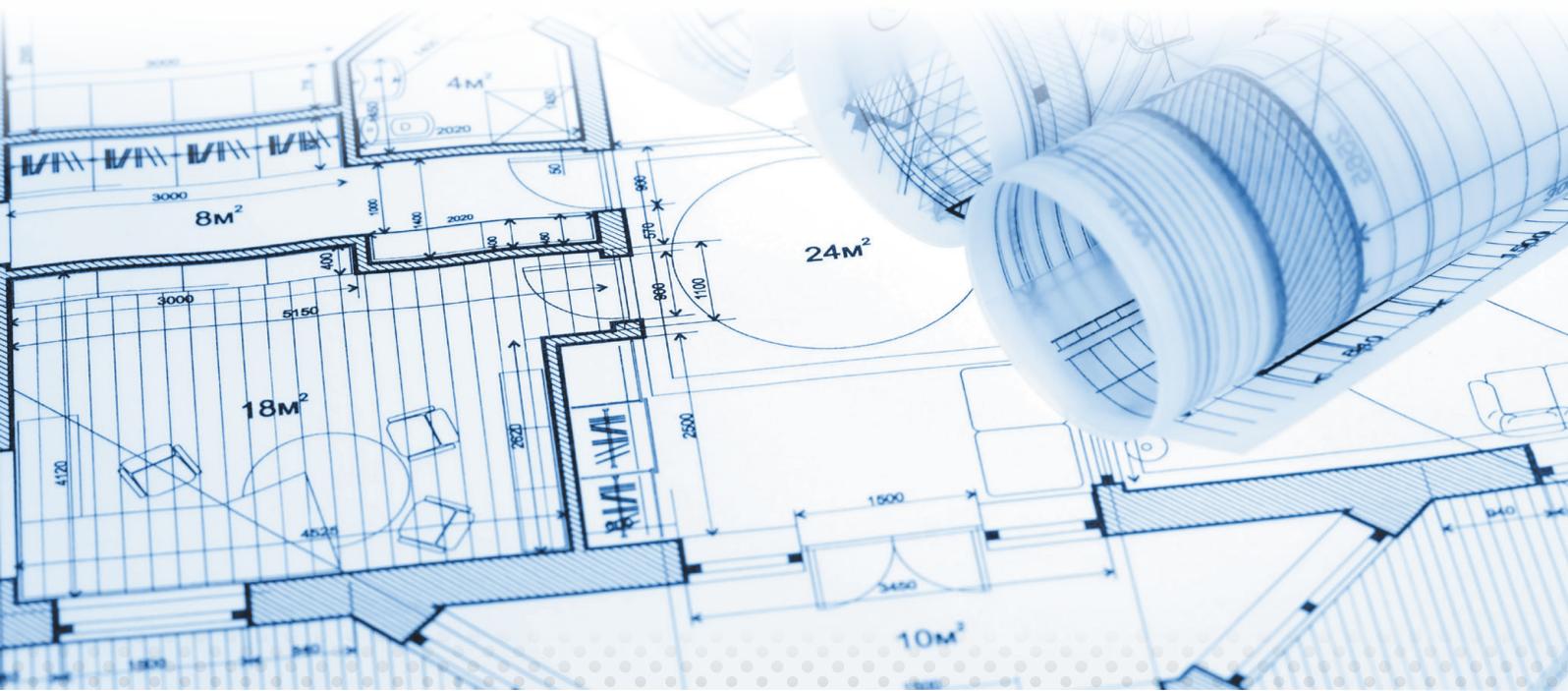
L4802..

L4803..

L4804..

L4807..

L4826..



# Contents

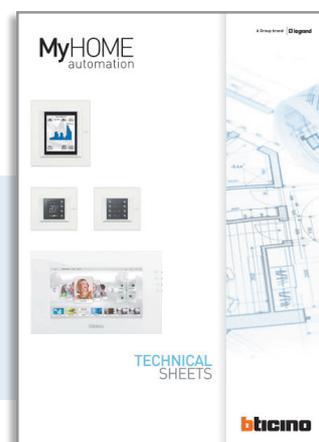
72-127	Technical Sheets	Technical and dimensional data, standards, mounting and installation	74
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The technical sheets in this booklet are only part of the range of SCS-BUS devices in the catalogue pages.

Only the technical sheets of the basic hotel offer are present.

FOR MORE INFORMATION ON THE DESIGN AND INSTALLATION OF THE SCS-BUS SOLUTIONS SEE THE SPECIFIC MyHOME TECHNICAL GUIDE

[www.catalogo-sfogliabile.bticino.it/myhomegb/](http://www.catalogo-sfogliabile.bticino.it/myhomegb/)



**BUS/SCS  
compact power supply**

**Description**

The power supply can be used to supply power to systems with SCS BUS. On the output, the unit supplies a 27 Vdc continuous low voltage, with a maximum current of 600 mA. It is protected by an integrated fuse (not replaceable) against short circuit and overload.

It's a double insulation safety device in accordance with CEI EN60065, and can therefore be used in conjunction with a SELV source in accordance with paragraph 4.11.1.2.5 of CEI 64-8-4. The power supply unit is fitted inside a 2 DIN rail module enclosure, and its installation must be in accordance with the regulations of the country of use.

In general, the following requirements must be met:

- The power supply must be always installed in appropriate sockets
- It must not be exposed to water drops or splashes.
- Do not block the ventilation openings.
- A two-pole circuit breaker must be installed, with contact separation of at least 3 mm located nearby the power supply. The circuit breaker is used to disconnect the power supply from the mains, and to protect it.

The device must not be configured.

**Technical data**

**PRI (AC power supply input)**

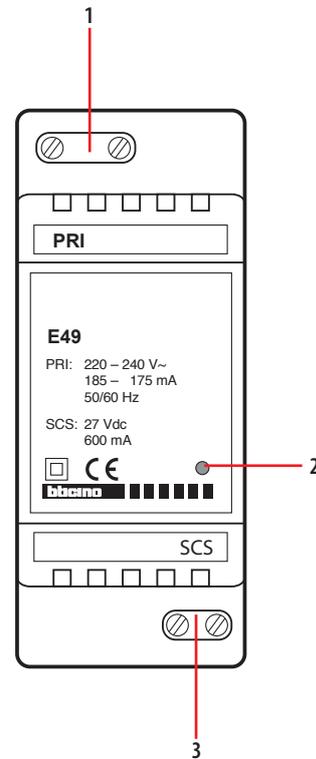
Rated voltage:	220 – 240 V
Rated current:	175 – 185 mA
Working voltage range:	187 – 265 V
Operating frequency range:	47 – 63 Hz
Power consumption - full load:	21.5 W max
Power consumption:	5.3 W max
Full load yield:	80% typ.
Stand by power:	lower than 1 W
Operating temperature:	(+5) – (+40) °C
Integrated fuse (PRI side):	F1 T2A 250V (NOT REPLACEABLE)

**SCS**

Rated voltage:	27 V +/- 100 mV
Rated current:	0 – 0.6 A
Rated power:	16.2 W

**Dimensional data**

2 DIN modules



**Legend**

1. Clamps (PRI) for connection to the supply voltage
2. LED: – green (power supply ON)  
– red (output current overload)
3. (SCS) clamps for connection to the BUS/SCS

## BUS/SCS power supply

E46ADCN

### Description

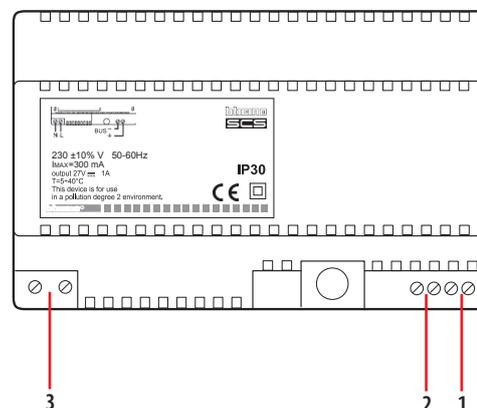
The power supply can be used to supply power to systems with SCS BUS. The output provides 27 Vdc continuous low voltage, with maximum current of 1.2 A. It is electronically protected (without fuse) against overload and short circuit. It's a double insulation safety device in accordance with CEI EN60065, and can therefore be used in conjunction with a SELV source in accordance with paragraph 4.11.1.2.5 of CEI 64-8-4.

The power supply unit is fitted inside a 8 DIN rail module enclosure, and its installation must be in accordance with the regulations of the country of use.

In general, the following requirements must be met:

- The power supply must be always installed in appropriate sockets
- It must not be exposed to water drops or splashes.
- Do not block the ventilation openings.
- A two-pole circuit breaker must be installed, with contact separation of at least 3 mm located nearby the power supply.

The circuit breaker is used to disconnect the power supply from the mains, and to protect it.



### Technical data

Supply voltage:	230 Vac $\pm$ 10% @ 50/60 Hz
Max. input absorption:	300 mA
Output voltage:	27 Vdc
Maximum current provided:	1.2 A
Maximum power consumption:	11 W
Reference standards:	EN60065
Protection index:	IP30
Operating temperature:	(+5) – (+40) °C

### Dimensional data

Size: 8 DIN modules

### Legend

1. Clamps (1-2) with 27 Vdc output voltage
2. Clamps (BUS) for connection to the SCS BUS
3. Clamps for connection to the supply voltage

**Additional power supply 230 V**

**346020**

**Description**

2 DIN module devices which allows to:

- locally supply the single video door entry handsets and entrance panels.
- supply some accessories of the Communication and MYHOME catalogues (ex: Web server, A/V server, scenarioprogrammers, 2WIRE/IP interface, switch 10/100, ADSL modem router, Hub-TV and SCS modulator).

It is a double insulation safety device.

The power supply unit is fitted inside a 2 DIN rail module plastic enclosure, and its installation must be in accordance with the regulations of the country of use.

The device must not be configured.

**Technical data**

PRI (AC power supply input):

Rated voltage:	220 – 240 Vac
Rated current:	180 – 190 mA
Working voltage range:	187 – 265 V
Operating frequency range:	47 – 63 Hz
Power consumption - full load:	20 W max
Power consumption:	3.8 W (max.)
Full load yield:	80% typ.
Stand by power:	< 1 W
Operating temperature:	(+5) – (+40) °C
Integrated fuse (PRI side):	F1 T2A 250V (NOT REPLACEABLE)

1 - 2 (DC output):

Rated voltage:	27 V +/- 100 mV
Rated current:	0 – 0.6 A
Rated power:	16.2 W

**Standards, certifications, marks**

Reference standards: CEI EN60065

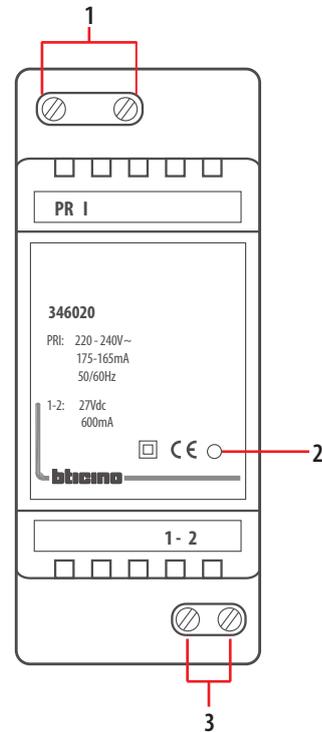
**Dimensional data**

2 DIN modules

**Mounting, installation**

Respect the following rules:

- The power supply must be always installed in appropriate sockets;
- It must not be exposed to water drops or splashes;
- Do not block the ventilation openings;
- A two-pole circuit breaker must be installed, with contact separation of at least 3 mm located nearby the power supply. The circuit breaker is used to disconnect the power supply from the mains, and to protect it.



**Legend**

1. Input connection clamps 230 Vac
2. Operation status notification LED:  
(GREEN ON) – normal operation of the power supply  
(RED ON) – output current overload
3. Output 1 – 2 connection clamps

## BUS-SCS key card switches

0 675 65 H4649  
5 727 35 LN4649  
5 722 35

### Description

Key card switch for the power supply inside the hotel room. Thanks to the LED backlit slot, the device can be found in the dark. An automatic switch off delay can also be set. It can be used with key cards with sizes between 45 mm and 54 mm (ISO).

The device can be configured in two different ways:

- **Physical configuration**, by inserting the configurators in the appropriate sockets.
- **Configuration using the MyHOME\_Suite software**, which can be downloaded from the website [www.homesystems-legrandgroup.com](http://www.homesystems-legrandgroup.com); this last type of configuration has the advantage of offering many more options when compared with the physical configuration.

### Technical data

Power supply from SCS BUS:	18-27 Vdc
Max. absorption:	6 mA
Absorption in stand by:	5 mA
Operating temperature:	(+5) – (+40) °C

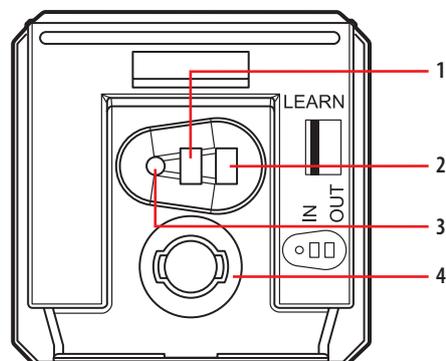
### Standards, certifications, marks

EN 60669-2-1  
EN 50491-5-1  
EN 50428

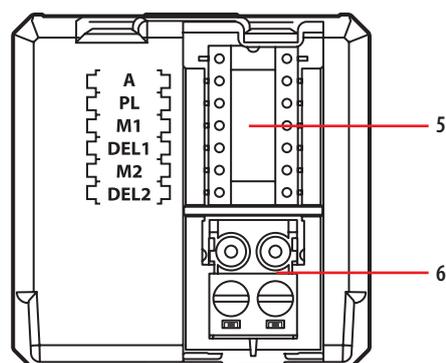
### Dimensional data

2 flush mounted modules

Front view



Rear view



### Legend

1. Programming key: Learn IN
2. Programming key: Learn OUT
3. LED
4. Key card detection microswitch
5. Configurator socket
6. Connector for BUS connection

**BUS-SCS  
key card switches**

**0 675 65 H4649  
5 727 35 LN4649  
5 722 35**

**Physical configuration**

There are two modes:

- **CENTRALIZED** (to be used with MH201), to recall scenarios managed by the scenario programmer. When the key card is inserted and removed, the device forwards a signal to the scenario programmer, which depending on the scenarios set will activate the corresponding functions programmed.

A = 1-9 (CEN control address)  
PL = 1-9 (CEN control address)  
M1 = CEN  
DEL1 = no configurator  
M2 = no configurator  
DEL2 = no configurator

Note: the insertion of the key card corresponds to "Pushbutton 1" of the control, while the removal of the key card corresponds to "Pushbutton 2" of the control.

- **SCENARIO**, where by inserting the key card a group of actuators is enabled, and an entrance scenario is activated (through the scenario module), and by removing the key card an exit scenario is activated (through the scenario module), thanks to which all the group actuators will switch off and then disable after a set time delay.

A = 1-9 (as scenario module)  
PL = 1-9 (as scenario module)  
M1 = 1-8 (activation of the corresponding scenario: see table B)  
DEL1 = 0 - 9 (switching on time delay at the insertion of the key card: see table A)  
M2 = no configurator  
DEL2 = 0 - 9 (switching off time delay after the removal of the key card: see table A)

**Table A**

Configurator value	Time
0	0
1	1 min
2	2 min
3	3 min
4	4 min
5	5 min
6	10 min
7	15 min
8	15 sec
9	30 sec

**Table B**

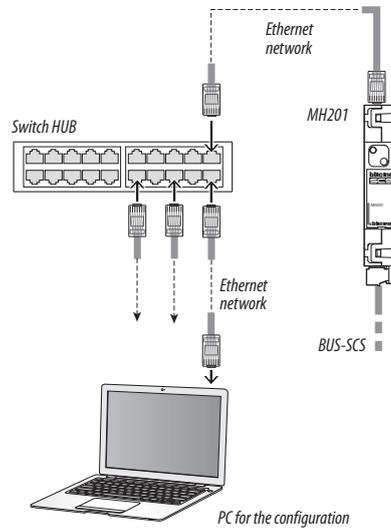
Configurator value	Scenario - Group
1	Scenario-group (Sce1=1, Sce2=9, Gr=1)
2	Scenario-group (Sce1=2, Sce2=10, Gr=2)
3	Scenario-group (Sce1=3, Sce2=11, Gr=3)
4	Scenario-group (Sce1=4, Sce2=12, Gr=4)
5	Scenario-group (Sce1=5, Sce2=13, Gr=5)
6	Scenario-group (Sce1=6, Sce2=14, Gr=6)
7	Scenario-group (Sce1=7, Sce2=15, Gr=7)
8	Scenario-group (Sce1=8, Sce2=16, Gr=8)

Note: Sce 1 = scenario activated on insertion  
Sce 2 = scenario activated on removal  
Gr = actuator group

**Configuration with MyHOME\_Suite software**

This is performed using the appropriate application MyHOME\_Suite, this mode has the advantage of offering many more options when compared with the physical configuration. The configuration using the software requires Ethernet connection of the system to the PC, using the MH201 IP scenario module.

**Ethernet connection with the system.**



**SCENARIO mode programming**

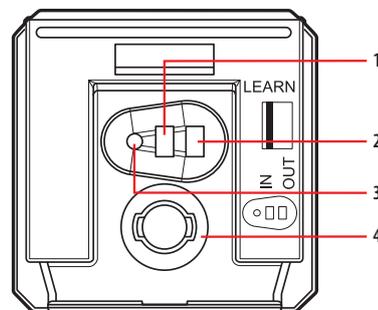
**SCENARIO mode programming**

This operation is performed to create a link between the key card switch and the scenario module. The procedure is as follows:

- 1) Power the key card switch. Check that the scenario module is in programming mode, with the green LED on;
- 2) Press and hold down programming key 1 (Learn IN) or 2 (Learn OUT) until the LED starts flashing (approximately 3 seconds);
- 3) Create the scenario using the system controls and actuators;
- 4) Once the scenario has been saved, briefly press programming key 1 (Learn IN) or 2 (Learn 2) to exit the programming status;
- 5) The scenario module will also have to exit programming status (see the scenario module technical information).

**Cancelling the programming in SCENARIO mode:**

- 1) Power the key card switch. Check that the scenario module is in programming mode, with the green LED on;
- 2) Press and hold down programming key 1 (Learn IN) or 2 (Learn OUT) for 8 seconds. After 3 seconds the LED will turn on, after a further 5 seconds it will turn off again;
- 3) Release the key;
- 4) The LED flashing, followed by the LED switching off, indicates that the programming has been cancelled;
- 5) The scenario module will also have to exit programming status (see the scenario module technical information).



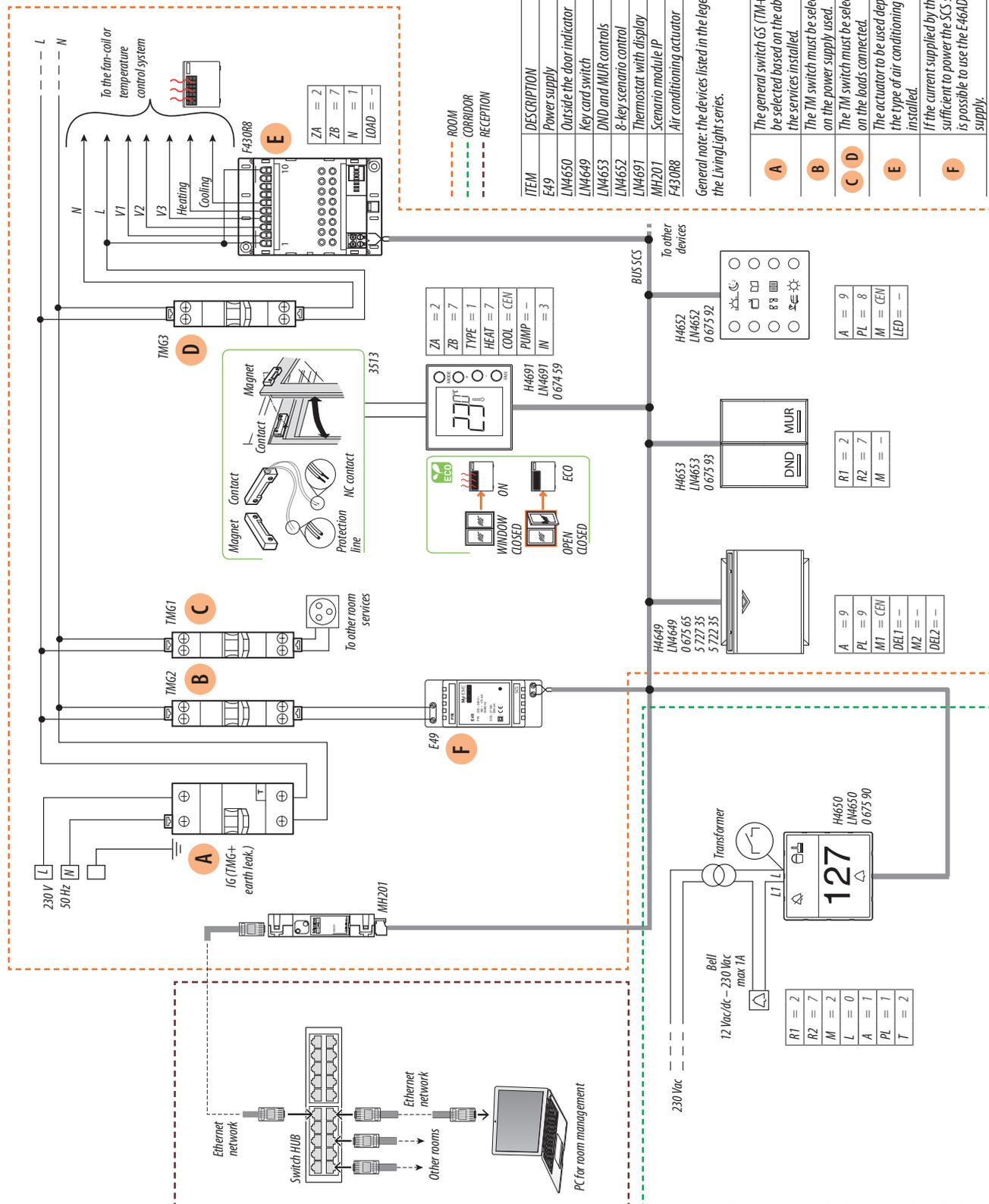
1. Programming key: Learn IN
2. Programming key: Learn OUT
3. LED
4. Key card detection microswitch

# BUS-SCS key card switches

**0 675 65 H4649**  
**5 727 35 LN4649**  
**5 722 35**

## Wiring diagrams

Principle and configuration diagram for a hotel room



**BUS-SCS  
RFID key card switches**

**0 675 66 H4648  
5 727 36 LN4648  
5 722 36**

**Description**

RFID key card switch for the connection of the power supply to the hotel room (13.56 MHz frequency key card detection). Thanks to the LED backlit slot, the device can be found in the dark. An automatic switch off delay can also be set.

It can be used with key cards with sizes between 45 mm and 54 mm (ISO).

The device can be configured in two different ways:

- **Physical configuration**, by inserting the configurators in the appropriate sockets.
- **Configuration using the MyHOME\_Suite software**, which can be downloaded from the website [www.homesystems-legrandgroup.com](http://www.homesystems-legrandgroup.com); this last type of configuration has the advantage of offering many more options when compared with the physical configuration.

**Technical data**

Power supply from SCS BUS:	18-27 Vdc
Max. absorption:	6 mA
Absorption in stand by:	5 mA
Operating temperature:	(+5) – (+40) °C
RFID key card frequency:	13.56 MHz

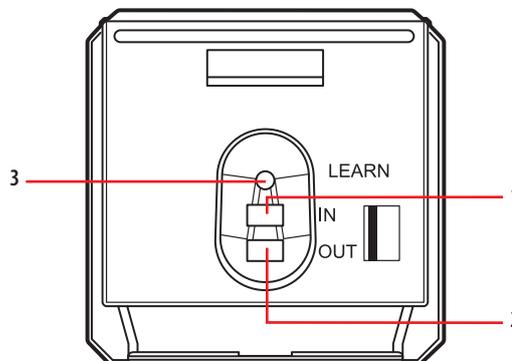
**Standards, certifications, marks**

EN 60669-2-1  
EN 50491-5-1  
EN 50428

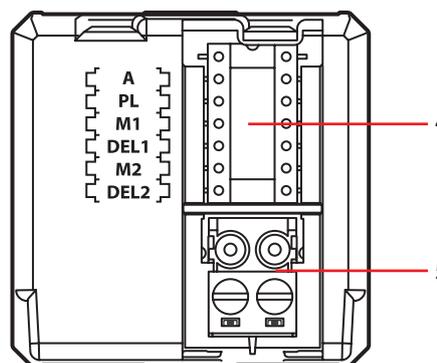
**Dimensional data**

2 flush mounted modules

Front view



Rear view



**Legend**

1. Programming key: Learn IN
2. Programming key: Learn OUT
3. LED
4. Configurator socket
5. Connector for BUS connection

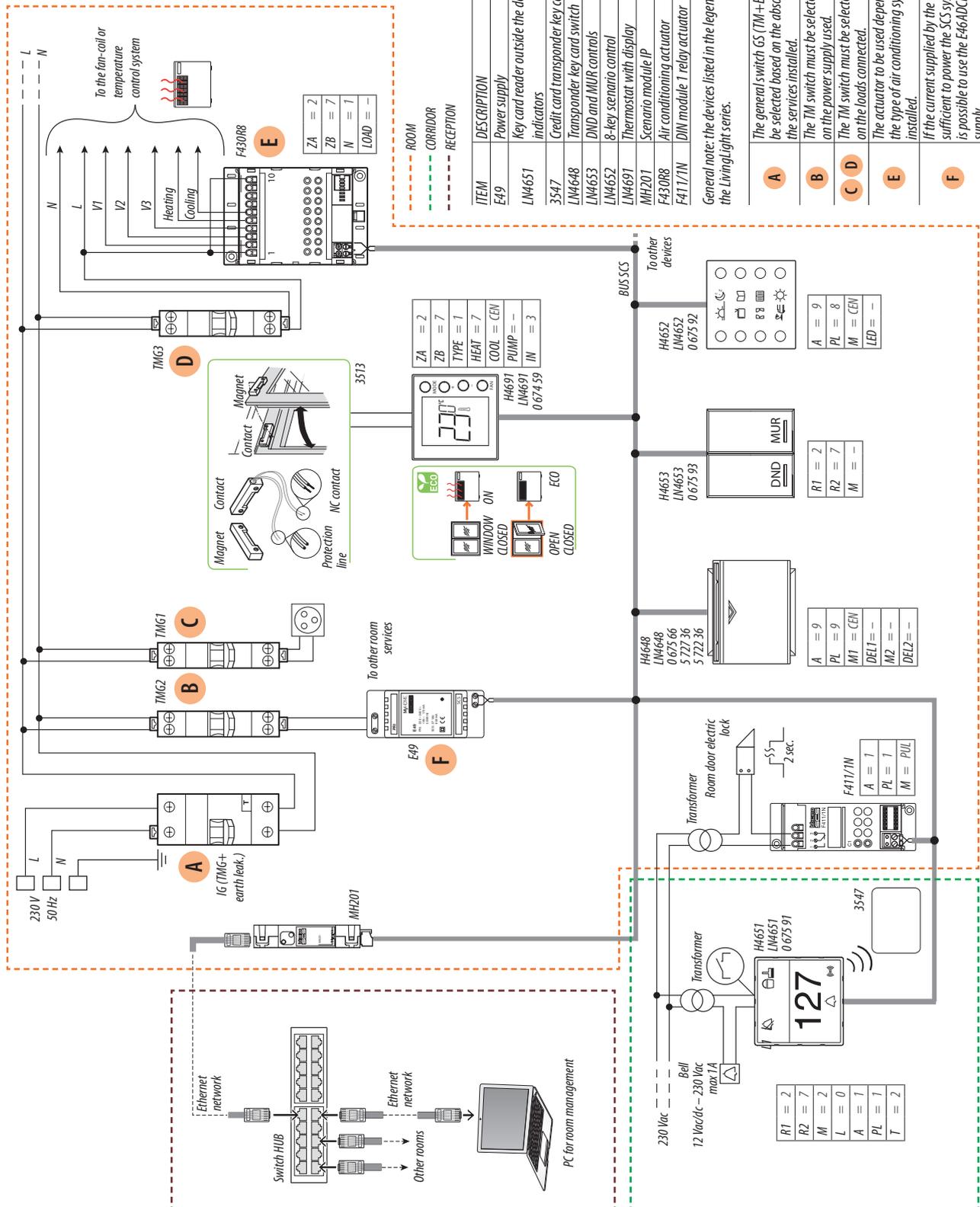


# BUS-SCS RFID key card switches

**0 675 66 H4648**  
**5 727 36 LN4648**  
**5 722 36**

## Wiring diagrams

Principle and configuration diagram for a hotel room



**BUS-SCS  
DND and MUR flush-mounted control**
**0 675 93 H4653  
LN4653**
**Description**

Flush mounted control for installation inside the room, for the activation of the "Do Not Disturb" or "Make Up Room" notifications on the indicator outside the door.

The device can be configured in two different ways:

- **Physical configuration**, by inserting the configurators in the appropriate sockets.
- **Configuration using the MyHOME\_Suite software**, which can be downloaded from the website [www.homesystems-legrandgroup.com](http://www.homesystems-legrandgroup.com); this last type of configuration has the advantage of offering many more options when compared with the physical configuration.

**Technical data**

BUS/SCS power supply:	18 – 27 Vdc
Absorption:	max. 7.5 mA
Operating temperature:	(+5) – (+40) °C

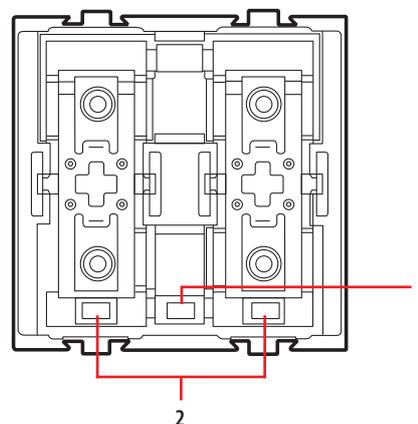
**Standards, certifications, marks**

EN 60669-2-1  
EN 50491-5-1  
EN 50428

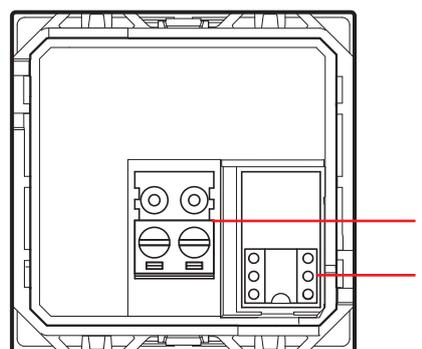
**Dimensional data**

Size: 2 flush mounted modules.

Front view



Rear view

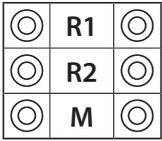

**Legend**

1. LED adjustment/disable pushbutton
2. LED:  
AXOLUTE/ARTEOR/CÉLIANE: BLUE: message not active  
PURPLE: message active  
LIVINGLIGHT: GREEN: message not active  
ORANGE: message active
3. Clamps for connection to the BUS
4. Configurator socket

**BUS-SCS  
DND and MUR flush-mounted control**

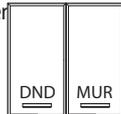
**0 675 93 H4653  
LN4653**

**Physical configuration**

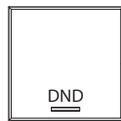


R1, R2 = Room address (R1 identifies the tenths; R2 identifies the units)

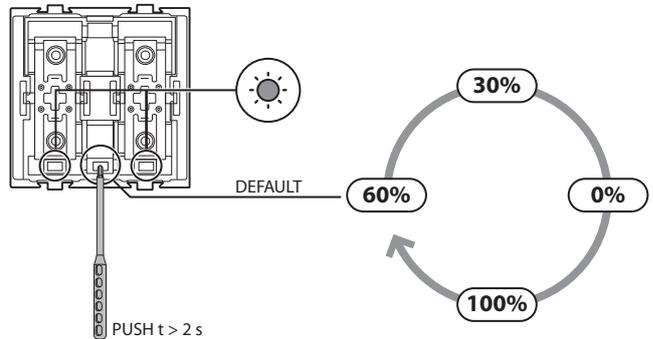
M = 0 DND and MUR active - 2 x 1 module key cover



M = 1 DND control only - 1 double key cover



**LED brightness adjustment**

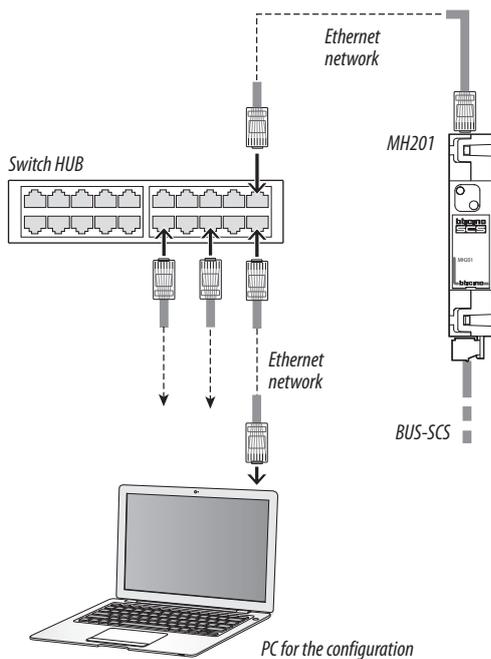


**Configuration with MyHOME\_Suite software**

This is performed using the appropriate application MyHOME\_Suite, this mode has the advantage of offering many more options when compared with the physical configuration.

The configuration using the software requires Ethernet connection of the system to the PC, using the MH201 IP scenario module.

**Ethernet connection with the system.**

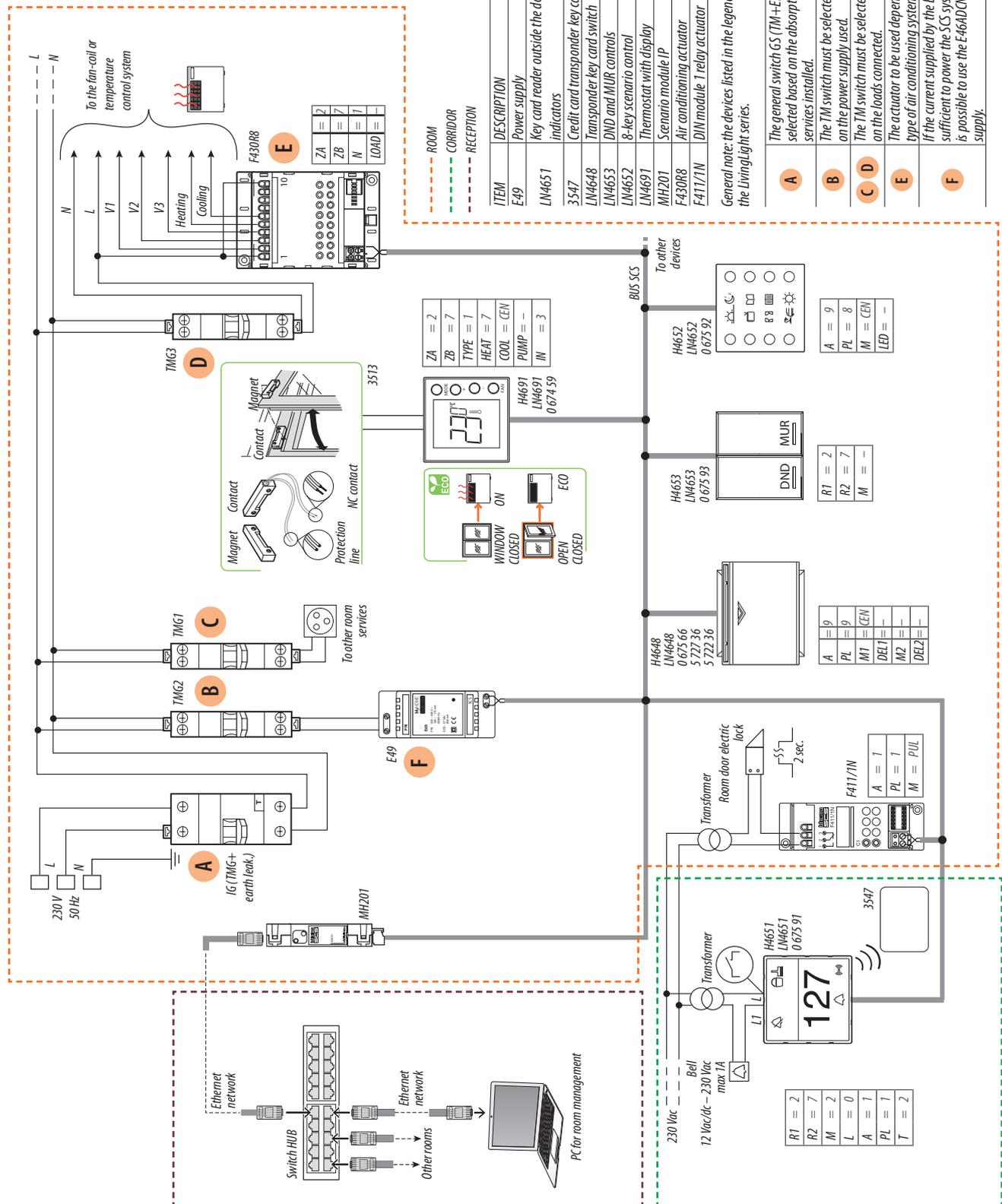


**BUS-SCS  
DND and MUR flush-mounted control**

**0 675 93 H4653  
LN4653**

**Wiring diagrams**

Principle and configuration diagram for a hotel room



**BUS-SCS  
outside the door indicator**

**0 675 90 H4650  
LN4650**

**Description**

Outside the door indicator with "Do Not Disturb" or "Make Up Room" notifications; it also has a call bell pushbutton and white backlit notification to indicate if someone is in the room, and the presence of alarm conditions.

If the DND function is active, the call pushbutton is disabled.

The white backlight switch on function can be configured for operating in different modes. See the physical configuration section "L configurator".

The "Visual alarm notification" function outside the door is only available for systems with the MH201 device installed, and its programming is only possible using the MyHOME\_Suite software.

This function is only available for devices with lot number 14w40 or later.

The device can be configured in two different ways:

- **Physical configuration**, by inserting the configurators in the appropriate sockets.
- **Configuration using the MyHOME\_Suite software**, which can be downloaded from the website [www.homesystems-legrandgroup.com](http://www.homesystems-legrandgroup.com); this last type of configuration has the advantage of offering many more options when compared with the physical configuration.

**Technical data**

BUS/SCS power supply:	18 – 27 Vdc
Absorption in Stand by:	10 mA
	20 mA max
Relay contact	
(activated by the front pushbutton):	12 Vac/dc – 230 Vac
	1A max
Operating temperature:	5 – 40 °C

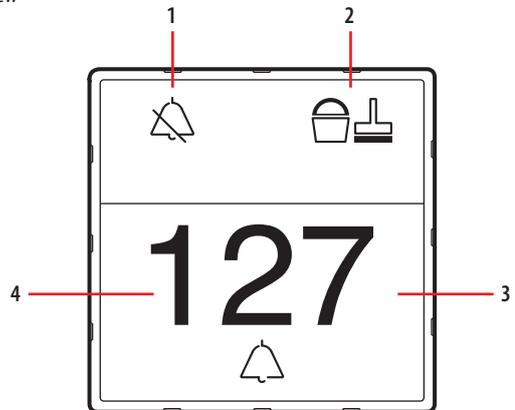
**Standards, certifications, marks**

EN 60669-2-1  
EN 50491-5-1  
EN 50428

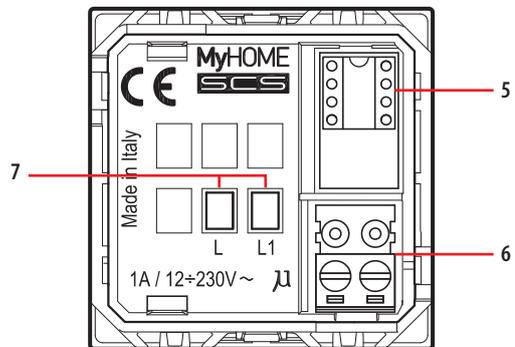
**Dimensional data**

Size: 2 flush mounted modules.

Front view



Rear view



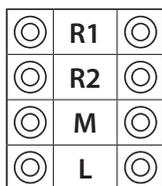
**Legend**

1. DND indicator (red LED ON = DO NOT DISTURB)
2. MUR indicator (green LED ON = MAKE UP ROOM)
3. Call pushbutton
4. Room number customisable and backlit area with white notification for: guest in the room and alarm notification.
5. Configurator socket
6. Clamps for connection to the BUS
7. NO contact for the activation of the bell. The contact is controlled by the front pushbutton

**BUS-SCS  
outside the door indicator**

**0 675 90 H4650  
LN4650**

**Physical configuration**



R1, R2 = Room address (R1 identifies the tenths; R2 identifies the units)

M = 0 for use together with F420

M = 1 for use together with MH200N

M = 2 for use together with MH201

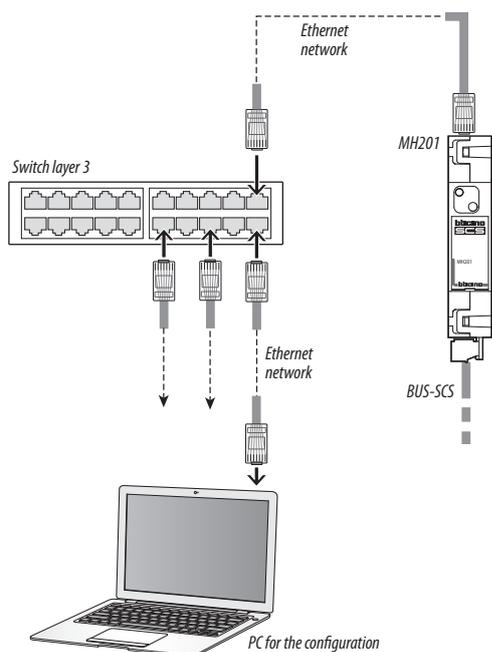
L = LED functions

L CONFIGURATOR	WHITE BACKLIGHTING LED	DND RED LED	MUR GREEN LED
0	ON: busy OFF: free	Active	Active
1	ON: busy OFF: free	Active	Disabled
2	ON: free OFF: busy	Active	Active
3	ON: free OFF: busy	Active	Disabled
4	Always ON	Active	Active
5	Always ON	Active	Disabled
6	Always OFF	Active	Active
7	Always OFF	Active	Disabled

**Software configuration**

This is performed using the appropriate application MyHOME\_Suite, this mode has the advantage of offering many more options when compared with the physical configuration. The configuration using the software requires Ethernet connection of the system to the PC, using the MH201 IP scenario module.

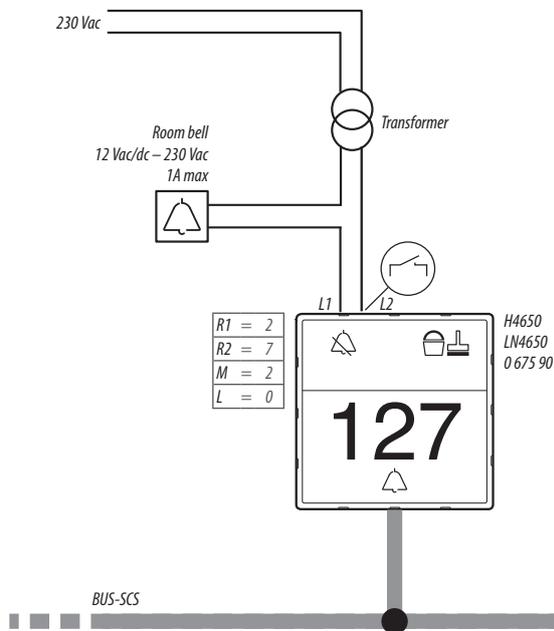
**Ethernet connection with the system.**



**Wiring diagrams**

**Room 127 bell control diagram**

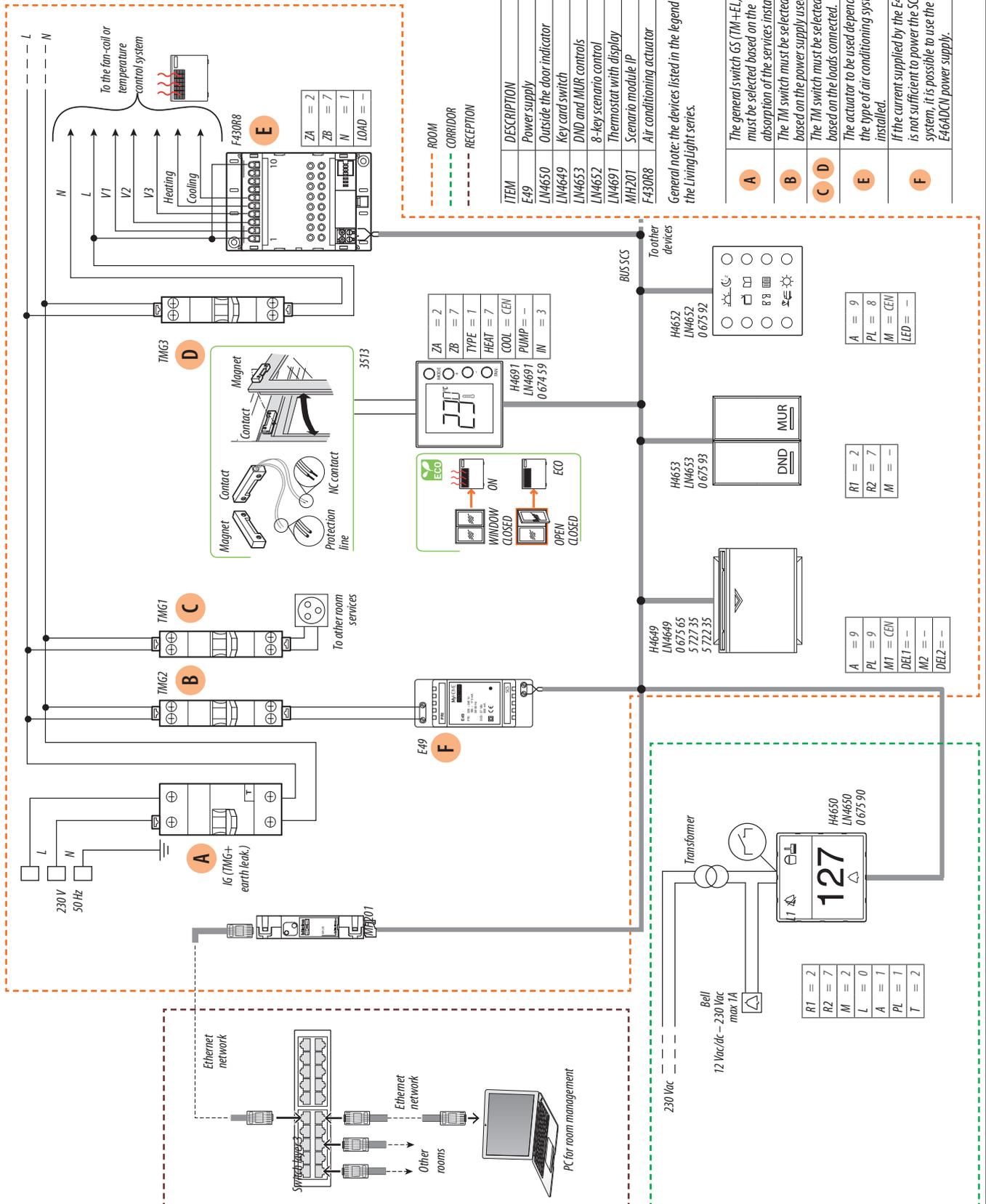
The bell is active while the relevant key on the device is pressed.



# BUS-SCS outside the door indicator

0 675 90 H4650  
LN4650

Principle and configuration diagram for a hotel room

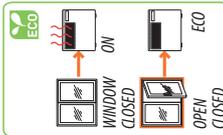


ITEM	DESCRIPTION
E-49	Power supply
LN4650	Outside the door indicator
LN4649	Key card switch
LN4653	DND and MUR controls
LN4652	8-key scenario control
LN4691	Thermostat with display
MH201	Scenario module IP
F-430R8	Air conditioning actuator

General note: the devices listed in the legend are for the Living Light series.

<b>A</b>	The general switch GS (TM+EL) must be selected based on the absorption of the services installed.
<b>B</b>	The TM switch must be selected based on the power supply used.
<b>C D</b>	The TM switch must be selected based on the loads connected.
<b>E</b>	The actuator to be used depends on the type of air conditioning system installed.
<b>F</b>	If the current supplied by the E-49 is not sufficient to power the SCS system, it is possible to use the E-464DCN power supply.

ZA = 2	TYPE = 1
ZB = 7	HEAT = 7
HEAT = 7	COOL = CEN
PUMP = -	IN = 3



H4652	LN4652	0 675 92
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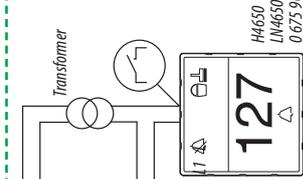
A = 9
PL = 8
M = CEN
LED = -

H4653	LN4653	0 675 93
-------	--------	----------

R1 = 2
R2 = 7
M = -

H4649	LN4649	0 675 65
5 727 35	5 727 35	5 727 35

A = 9
PL = 9
MT = CEN
DEL1 = -
M2 = -
DEL2 = -



R1 = 2
R2 = 7
M = 2
L = 0
A = 7
PL = 7
T = 2

## RFID reader and outside the door indicator SCS BUS

0 675 91 H4651  
LN4651

### Description

Outside the door indicator with "Do Not Disturb" or "Make Up Room" notification, call bell pushbutton, RFID key card reader (Mifare classic ISO 14443), white backlight notification to indicate if someone is in the room, and the presence of alarm conditions. The white backlight switch on function can be configured for operating in different modes. See the physical configuration section "L configurator".

The "Visual alarm notification" function outside the door is only available for systems with the MH201 device installed, and its programming is only possible using the MyHOME\_Suite software.

This function, and the compatibility with the Mifare classic ISO 14443 key card, including 3547 key cards, are only available for devices with lot number 14w40 or later.

The device can be configured in two different ways:

- **Physical configuration**, by inserting the configurators in the appropriate sockets.
- **Configuration using the MyHOME\_Suite software**, which can be downloaded from the website [www.homesystems-legrandgroup.com](http://www.homesystems-legrandgroup.com); this last type of configuration has the advantage of offering many more options when compared with the physical configuration.

### Technical data

BUS/SCS power supply:	18 – 27 Vdc
Absorption:	in Stand-by 10 mA
	with relay active 20 mA
	max. with RFID 55 mA
Relay contact (activated by the front pushbutton):	12 Vac/dc – 230 Vac
	1A max
Operating temperature:	5 – 40 °C

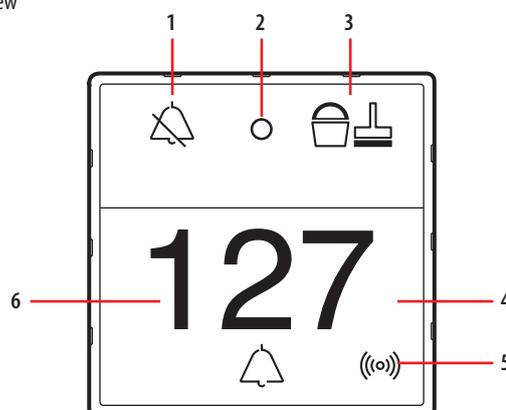
### Standards, certifications, marks

EN 60669-2-1  
EN 50491-5-1  
EN 50428

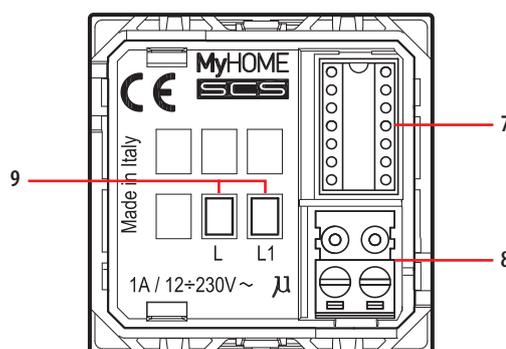
### Dimensional data

Size: 2 flush mounted modules.

Front view



Rear view



### Legend

1. DND indicator (red LED ON = DO NOT DISTURB)
2. Green LED ON = reading OK  
Red LED ON = reading error  
LED flashing = stand alone mode key card programming
3. MUR indicator (green LED ON = MAKE UP ROOM)
4. Call pushbutton (it activates the internal relay)
5. RFID key card reader
6. Room number customisable and backlight area with white notification for: guest in the room and alarm notification.
7. Configurator socket
8. Clamps for connection to the BUS
9. NO relay contact; the relay can be used to control:
  - bell
  - electric door lock
 The relay is activated by the front pushbutton.

**RFID reader and outside the door indicator  
SCS BUS**

**0 675 91 H4651  
LN4651**

**Physical configuration** **Software configuration**

⊙	R1	⊙
⊙	R2	⊙
⊙	M	⊙
⊙	L	⊙
⊙	A	⊙
⊙	PL	⊙
⊙	T	⊙

This is performed using the appropriate application MyHOME\_Suite, this mode has the advantage of offering many more options when compared with the physical configuration. The configuration using the software requires Ethernet connection of the system to the PC, using the MH201 IP scenario module.

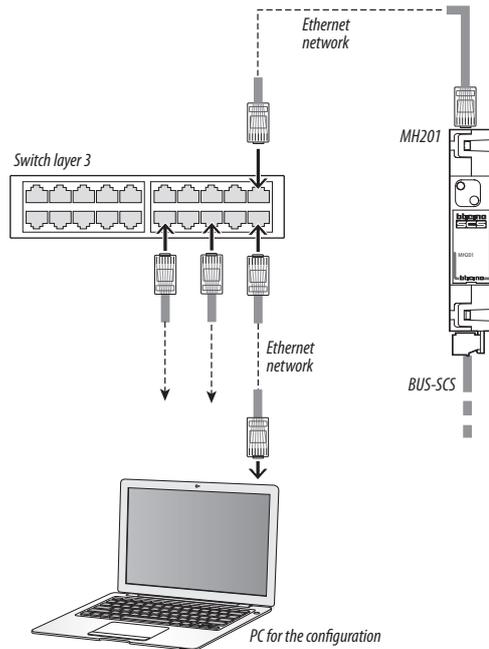
R1, R2 = Room address (R1 identifies the tenths; R2 identifies the units)

- M = 0 for use together with F420
- M = 1 for use together with MH200N
- M = 2 for use together with MH201

**Ethernet connection with the system.**

L = LED functions

L CONFIGURATOR	WHITE BACKLIGHTING LED	DND RED LED	MUR GREEN LED
0	ON: busy OFF: free	Active	Active
1	ON: busy OFF: free	Active	Disabled
2	ON: free OFF: busy	Active	Active
3	ON: free OFF: busy	Active	Disabled
4	Always ON	Active	Active
5	Always ON	Active	Disabled
6	Always OFF	Active	Active
7	Always OFF	Active	Disabled



A, PL = door lock actuator SCS address

T = door lock relay timer

Configurator	Time
0	½ sec
1	1 sec
2	2 sec
3	3 sec
4	4 sec
5	5 sec
6	6 sec
7	7 sec
8	8 sec
9	9 sec

# RFID reader and outside the door indicator SCS BUS

**0 675 91 H4651  
LN4651**

## Stand-alone mode key card programming

### Master key card programming

If no master key card has been programmed, at the first start up the DND & MUR indicator accepts all the key cards.

To start the Master key card programming procedure press the call pushbutton for 10 seconds and then move the key card close to the reader; this key card will be saved as Master.

The programming of the Master key card cannot be changed; however the device can be reset as follows:

- Disconnect the power supply from the device.
- Reconnect the power supply while pressing the call pushbutton for 10 seconds.

NOTE: this procedure deletes all the key cards saved by the device.

### Customer key card programming

- Move the Master key card close to the reader; the green LED starts flashing slowly.
- Move the customer key card to save close to the reader, the green LED stays on steady for two seconds.
- Press the call pushbutton to end the operation (the green LED goes off).

### Deleting all the saved customer key cards

- Move the Master key card close to the reader; the green LED starts flashing slowly.
- Move the key card close to the reader again, the green LED starts flashing quickly.
- Move the key card close to the reader a third time, the green LED comes on steady for five seconds before switching off.

### Service key card programming

- Move the Master key card close to the reader; the green LED starts flashing slowly.
- Press the call pushbutton; the LED starts flashing orange.
- Move the service key card to save close to the reader, the orange LED stays on steady for two seconds.
- Press the call pushbutton to end the operation (the orange LED goes off).

### Deleting all the service key cards

- Move the Master key card close to the reader; the green LED starts flashing slowly.
- Press the call pushbutton; the LED starts flashing orange.
- Move the Master key card close to the reader again, the LED starts flashing quickly.
- Move the key card close to the reader a third time, the orange LED comes on steady for five seconds before switching off.

## Programming the key card using the PC and the software

Programming key cards using the PC and the relevant software provides further functions in addition to the basic ones available in stand-alone mode programming: validity settings, guest information, scheduled accesses...

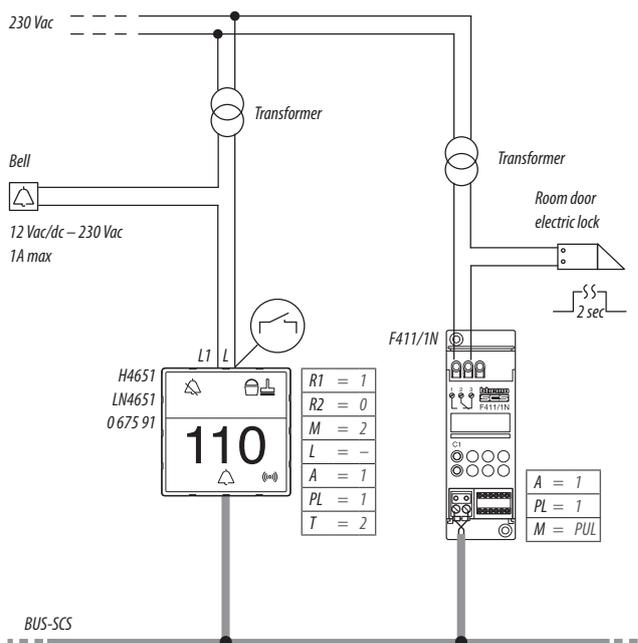
This procedure is only possible using item MH201.

## Wiring diagrams

### Room 110 bell + electric door lock control diagram

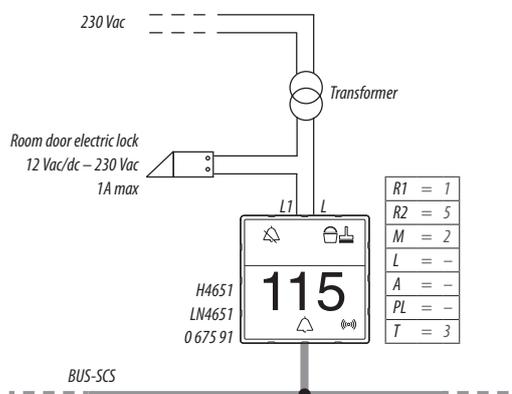
The bell is activated by the front pushbutton of the reader and indicator outside the door.

The electric door lock is activated for a period of 2 seconds by the reader and indicator outside the door following a positive reading of the key card.



### Room 115 electric door lock control diagram

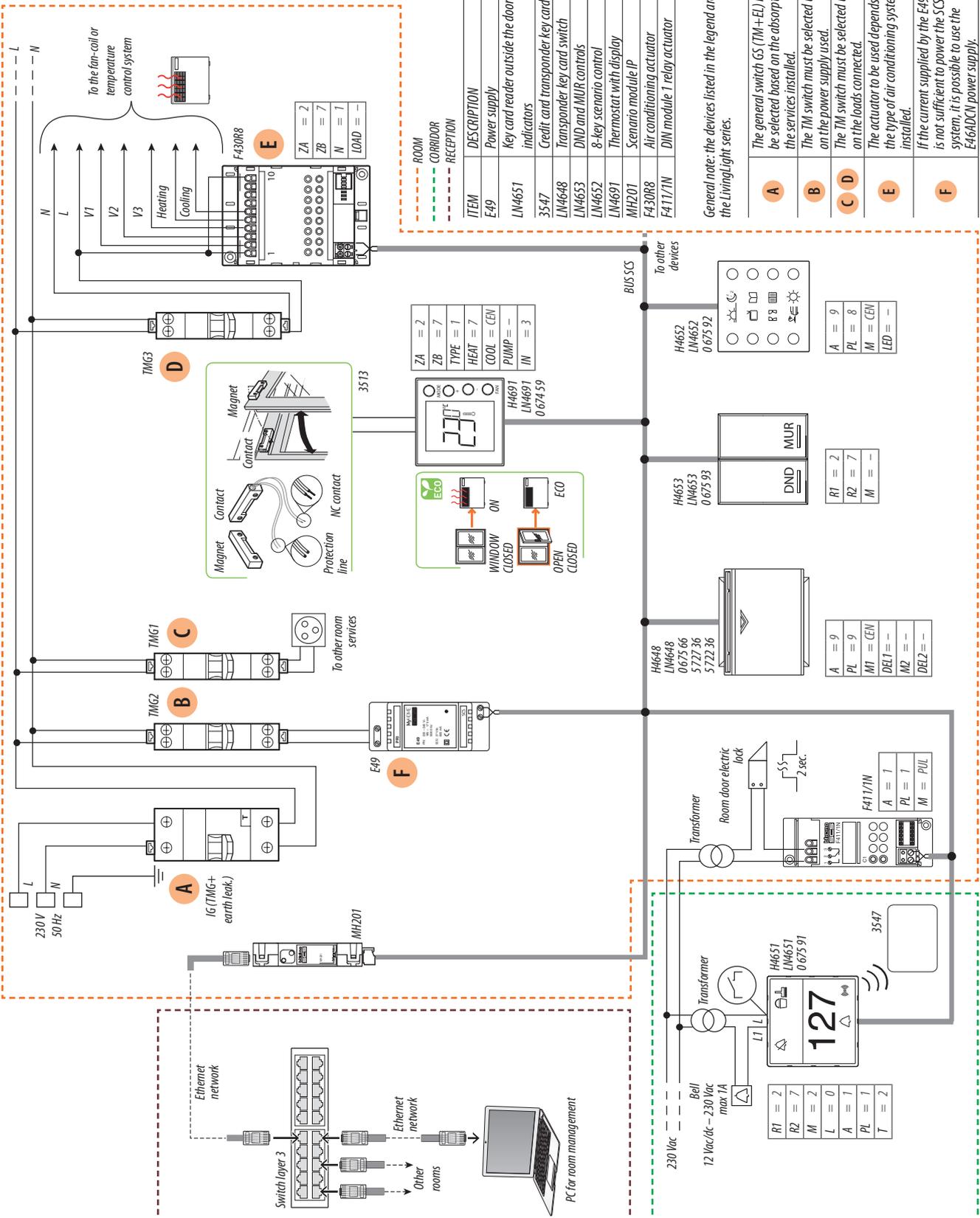
The electric door lock is activated for a period of 3 seconds by the RFID reader following a positive reading of the key card. In this mode the front pushbutton is disabled.



# RFID reader and outside the door indicator SCS BUS

0 675 91 H4651  
LN4651

Principle and configuration diagram for a hotel room



**8-key multifunction control  
SCS BUS**

**0 675 92 H4652  
LN4652**

**Description**

Flush mounted multifunction control, with 8 backlit keys in the centre section, where the icons indicating the functions allocated to the keys can be found.

The device can be configured in two different ways:

- **Physical configuration**, by inserting the configurators in the appropriate sockets.
- **Configuration using the MyHOME\_Suite software**, which can be downloaded from the website [www.homesystems-legrandgroup.com](http://www.homesystems-legrandgroup.com); this last type of configuration has the advantage of offering many more options when compared with the physical configuration.

Irrespective of the mode implemented, an A/PL address must always be assigned to the control.

It can be programmed in 4 operating modes:

- **The self-learning mode** (cyclical or non cyclical) gives the possibility of associating to each key the majority of the typical controls of the automation, sound, and video door entry (staircase lights, door lock, call to the floor, door lock and camera cycling) systems, in addition to the auxiliary controls.
- **The scenario mode** gives the possibility of recalling, programming and deleting 8 scenarios of a scenario module.
- **The swivelling mode** gives the possibility of driving 4 light points of shutters in succession (room or group).
- **CEN mode** gives the possibility of using the control together with scenario programmer MH200N or MH201.

**Related items**

- 3541 - 0 675 95 A5 sheets with symbol customisations, BLACK
- 3542 - 0 675 96 A5 sheets with symbol customisations, WHITE

For the customisation of the sheets, it is possible to use the tool found in the MyHOME\_Suite configuration software, which can be downloaded from the website: [www.homesystems-legrandgroup.com](http://www.homesystems-legrandgroup.com).

**Technical data**

Power supply from BUS:	18 – 27 Vdc	
Absorption:	with LEDs OFF:	5 mA
	with LEDs ON at 100%:	20 mA
Operating temperature:	(+5) – (+40) °C	

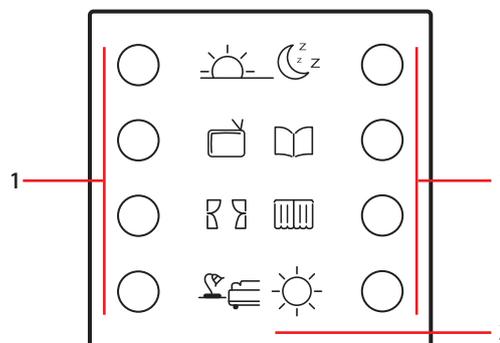
**Standards, certifications, marks**

- EN 60669-2-1
- EN 50491-5-1
- EN 50428

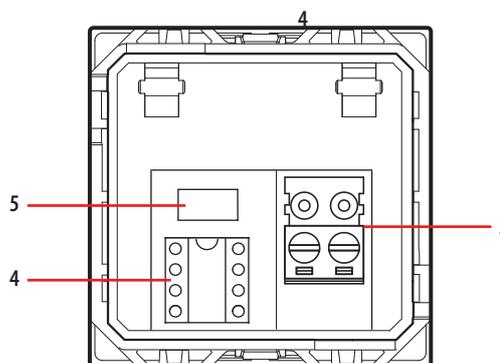
**Dimensional data**

Size: 2 flush mounted modules

Front view



Rear view



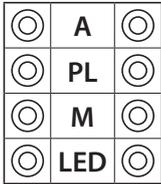
**Legend**

1. Keys
2. Customisable label
3. Clamps for connection to the BUS
4. Configurator socket
5. Programming pushbutton for self-learning and scenario modes

**8-key multifunction control  
SCS BUS**

**0 675 92 H4652  
LN4652**

**Physical configuration**



- A room
- PL light point
- M mode (see the dedicated section)
- LED backlight setting (see the dedicated section)

**Configurator A**  
room address

**Configurator PL**  
light point address

**Configurator M**

**1) Self-learning mode M=0**

This mode of operation gives the possibility of associating an individual control to any key of the device. It is possible to create, delete or modify each control. The device may be configured using any A/PL address already present in the system, or a unique address not used by other devices.

**Programming the keys**

The procedure to associate each key to a different control is as follows:

- 1) Press and release the programming key on the back of the device; the backlighting LEDs will flash slowly;
- 2) Press the key to program within 20 seconds: the LEDs start flashing much quicker, indicating the activation of the programming mode;
- 3) Set the control to associate to the key using the controls and/or the corresponding actuator; the LEDs will start flashing slowly;
- 4) At this point it is possible to repeat points 2 and 3 for all the keys, including those that have already been associated, to change their association;
- 5) Quickly press the programming pushbutton, or wait 20 seconds to exit the programming procedure.

**Cancelling the programming of the keys**

- 1) Press and release the programming key; the backlight LEDs will flash slowly;
- 2) Within 20 seconds press and hold down for 4 seconds the key to cancel; from now on the key cancelled will no longer activate any control until programmed again;
- 3) The LEDs come on at full power for 4 seconds, after which it will be possible to repeat point 2 to cancel the programming of other keys;
- 4) Press and quickly release the programming pushbutton, or wait 20 seconds to exit the programming procedure.

**NOTE:** To delete the programming of all the keys at the same time, press and quickly release the programming key; the LEDs start flashing slowly; press and hold down again for 10 seconds the pushbutton on the back: the LEDs come on for approximately 4 seconds, confirming the cancellation of all programming.

**2) Non-cyclical self-learning mode M=6**

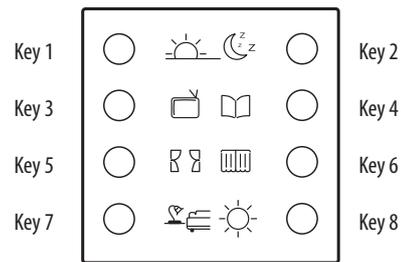
This mode is a variant of the self-learning mode (M=0), in which, however, the keys never work cyclically. Therefore, if for example, the ON of an actuator or dimmer is learnt, the couple of keys is configured automatically to switch on or increase the light intensity level for the left key, and switch off or decrease the level of intensity for the right key. If, on the other hand, a single function is learnt (e.g. recalling of a scenario), the other key of the pair remains without function, or retains the previous function. The device may be configured using any A/PL address already present in the system, or a unique address not used by other devices.

**3) Scenario module M = 1 – 2**

This operating mode can only be used if the system includes a scenario module F420; the matching is achieved by assigning to both the items the same address, identified by A=0-9 and PL=1-9. The user can create, cancel, or modify the scenarios found in the scenario module, and can recall them using the keys.

The procedure gives the possibility of saving up to 16 scenarios using two devices.

The following table shows the correspondence between the number of the scenario saved in the scenario module, and the keys of the control in the possible configurations:

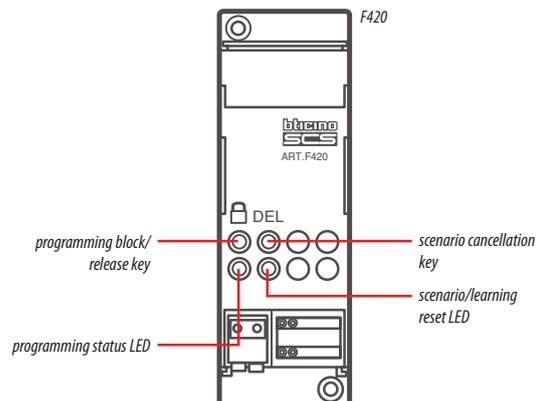


Key number	M=1	M=2
Key 1	Scenario 1	Scenario 9
Key 2	Scenario 2	Scenario 10
Key 3	Scenario 3	Scenario 11
Key 4	Scenario 4	Scenario 12
Key 5	Scenario 5	Scenario 13
Key 6	Scenario 6	Scenario 14
Key 7	Scenario 7	Scenario 15
Key 8	Scenario 8	Scenario 16

**Programming a scenario with the F420**

For the programming of the scenario, the procedure is as follows:

- 1) The self-learning configuration of the scenario module, item F420, must be enabled (to do so press the self-learning pushbutton, so that the corresponding LED turns green; if the LED is red, self-learning is disabled);
- 2) Press and release the programming key on the back of the multifunction control; the LEDs start flashing slowly (1 sec. ON and 1 sec. OFF);
- 3) Within 20 seconds press the key corresponding to the scenario to program on the multifunction control; its LEDs start flashing quickly, indicating the activation of the programming mode;
- 4) Set the scenario, using the controls and/or actuators of the system;
- 5) Press the programming key of the multifunction control again to exit programming and complete the procedure: the LEDs start flashing slowly again; it is now possible to repeat points 2, 3, and 4 for all the scenarios; the same procedure must also be used to change the scenarios already set;
- 6) Press and quickly release the self-learning pushbutton on the F420 module, or wait 20 seconds to complete the procedure (red LED on).



## 8-key multifunction control SCS BUS

### Deleting a scenario

To delete the scenario, the procedure is as follows:

- 1) The F420 scenario module must be in configuration mode with self-learning enabled;
- 2) Press and release the programming key of the multifunction control; the LEDs start flashing slowly (1 sec. ON and 1 sec. OFF);
- 3) Within 20 seconds press and hold down for 4 seconds the key of the scenario to be cancelled on the multifunction control;
- 4) The LEDs flash quickly for 4 seconds, after which it will be possible to repeat point 2 to delete the other programming.
- 5) Press and quickly release the programming pushbutton on the back of the control, or wait 20 seconds to exit the deleting procedure.

**NOTE:** to reset the whole memory, it will be necessary to directly act on the scenario module: press "DEL" for ten seconds, after enabling the scenario module for programming.

### 4) Swivelling modes M=0/1; ↑↓; ↑↓M

These modes ensure quick installation without the need for further learning, or scenario modules, enabling the control of 4 light points or shutters with consecutive addresses.

The A PL address is the light point or shutter controlled by the first pair of keys (the keys are paired horizontally), the subsequent pairs controls the subsequent light points or shutters.

If the **Amb** or **Gr** configurators are connected to A, in the same way, the 4 pairs of keys control consecutive rooms or groups starting from the one indicated by the PL configurator.

Possible function	Value of M configurator
ON/OFF control: ON control with the left key, OFF control with the right key. For point-to-point controls the key perform the ON/OFF function with a short pressure and the adjustment with an extended pressure: for the other controls, only ON/OFF are performed	0/1
Control (UP/DOWN for shutters): up and down control, until fully open or closed	↑↓
Monostable control (UP/DOWN for shutters): up and down control, for the time the key is pressed	↑↓M

### 5) Scenario programmer mode, M=CEN

The matching between a scenario configured in the scenario programmer MH200N or MH201, and the corresponding controls keys of the multifunction control, is completed during the programming of the scenario itself using the dedicated software.

Always assign to the control a unique A/PL address on the system (it must not be used by any other device installed on the BUS); the A=0, PL=0 configuration is not acceptable. This operating mode can only be used if the system includes a scenario programmer (MH200 or MH201).

### LED configurator

#### Setting the backlight intensity

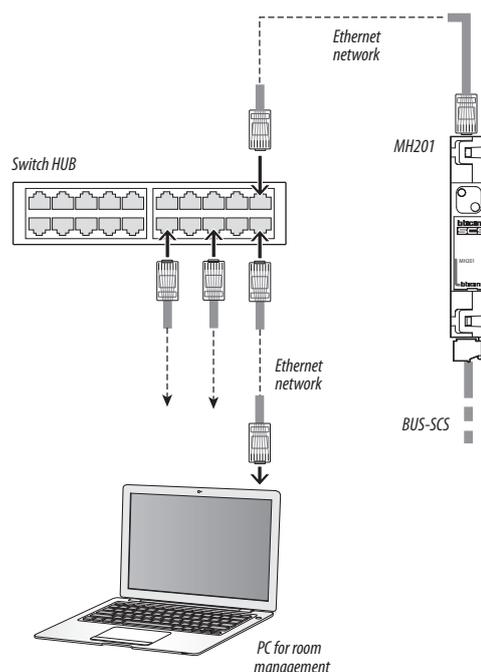
The configurator in the LED socket gives the possibility of setting the backlight at the desired level; see table:

LED configurator	Brightness level
0	default setting = 30%
1	level 10 %
2	level 15 %
3	level 20 %
4	level 25 %
5	level 30 %
6	level 40 %
7	level 50 %
8	level 60 %
9	level 80 %
OFF	level OFF
ON	level 100 %

### Configuration using the software in a typical hotel system

This is performed using the appropriate application MyHOME\_Suite, this mode has the advantage of offering many more options when compared with the physical configuration. The configuration using the software requires Ethernet connection of the system to the PC, using the MH201 IP scenario module.

#### Ethernet connection with the system.



**IP scenario module  
BUS-SCS**

**MH201**

**Description**

The IP scenario module is a device of the Hotel range for the management of the room and the common areas.

One MH201 must be used for each room or common area.

For systems with over 100 rooms, or common areas, the IP Server F458 device must also be used.

It's main functions are:

**- Key card management:**

1) **room access management (key cards saved).** Using the supervision software, it is possible to manage the saving of the key cards (if the external reader is present) used for opening the door with two different profiles (Users or Service). For each key card saved, it is possible to associate a validity end date, 3 access time profiles, and a maximum number of accesses.

The date of validity can only be associated for user key cards, not for service ones.

The access time profiles and the maximum number of accesses can only be associated to common areas.

For more details refer to the supervision software manual.

**- Management of the room functions:**

1) **MAKE UP ROOM.** If inside the room MUR is pressed on the appropriate control (LN4653-H4653-0 675 93), the IP scenario module updates the notification to all the display units (LN4651-H4651-0 675 91), also notifying the event occurred to the supervision software.

Using the CEN operating mode, also other devices can send MUR notifications.

2) **DO NOT DISTURB.** If inside the room the DND key is pressed on the appropriate control (LN4653-H4653-0 675 93), the IP scenario module updates the notification to all the display units (LN4651-H4651-0 675 91), also notifying the event occurred to the supervision software.

Using the CEN operating mode, also other devices can send MUR notifications.

3) **Room alarms.** If an alarm is activated (e.g. bathroom pull cord), the device notifies the supervision software, from where it will then be reset. If enabled, the notification will also be sent to the display outside the door.

4) **Management of the room contacts.** Technical contact for forwarding information and alarm notifications to the supervision software (e.g. window or refrigerator door open).

5) **Remote thermostat contact.**

6) **Presence management.** The presence of someone in the room is notified by the key card switch (LN4849-H4648-0 675 66-05 727 36-05 722 36); the IP scenario module sees the notification and forwards it to all the notifying units (LN4651-H4651-0 675 91), and to the supervision software.

- Gateway for the configuration of the devices installed inside the room. The IP scenario module performs the gateway function to enable the configuration of the devices installed inside the room using the MyHOME\_Suite.

- Communication with the supervision software

- Scenario management. The device can manage up to 50 scenarios as follows:

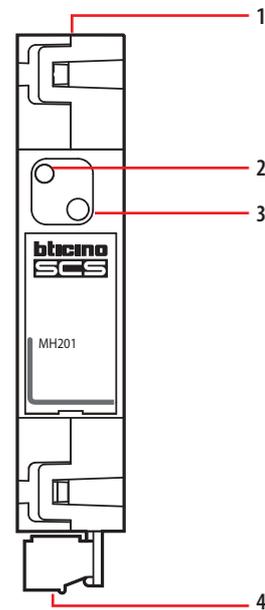
- a) 5 start triggers.
- b) 1 stop trigger.
- c) 1 condition "ONLY IF".
- d) 10 actions.

The scenarios are saved using the MyHOME\_Suite software.

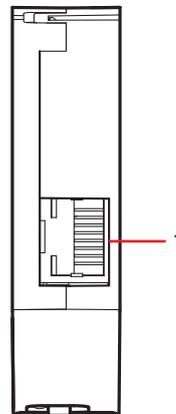
- Management of lights as memory module. The device follows the status of the actuators, and if no network is detected, the status is reset.

- It saves the events occurred inside the room in a log that can be downloaded using the supervision software.

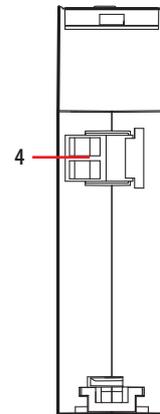
Front view



Top view



Bottom view



**Legend**

- 1. Ethernet data network RJ45 connector
- 2. LED: LED: red/green bi-colour LED  
Notification: flashing red, 1 sec. ON / 1 sec. OFF, acquiring the Ethernet network address configuration  
Flashing green, 1 sec. ON / 3 sec. OFF, Ethernet network configuration acquired
- 3. Pushbutton:  
- pressure of the pushbutton until it starts flashing green at start-up: set-up of fixed IP 192.168.1.5, Subnet Mask 255.255.255.0  
- extended pressure for 30 seconds: deletion of the log (all the saved events)
- 4. Clamps for connection to the SCS BUS

**IP scenario module  
BUS SCS****Technical data**

Power supply:	18 – 27 Vdc
Absorption:	30 mA
Operating temperature:	5 – 40 °C

**Standards, certifications, marks**

EN 60669-2-1  
EN 50491-5-1  
EN 50428

**Dimensional data**

Size: 1 DIN modules

**Configuration**

The configuration of the scenarios can be completed using the "MyHOME\_Suite" software:

It is possible to save up to 50 scenarios.

Always using the software, it is possible to change the basic settings of the device:

- Name: max. 16 characters
- Open Password: default 12345 (max 9 characters)

**Putting into operation**

Pressing the pushbutton until it starts flashing green will set the configuration of the device with the fixed IP address:

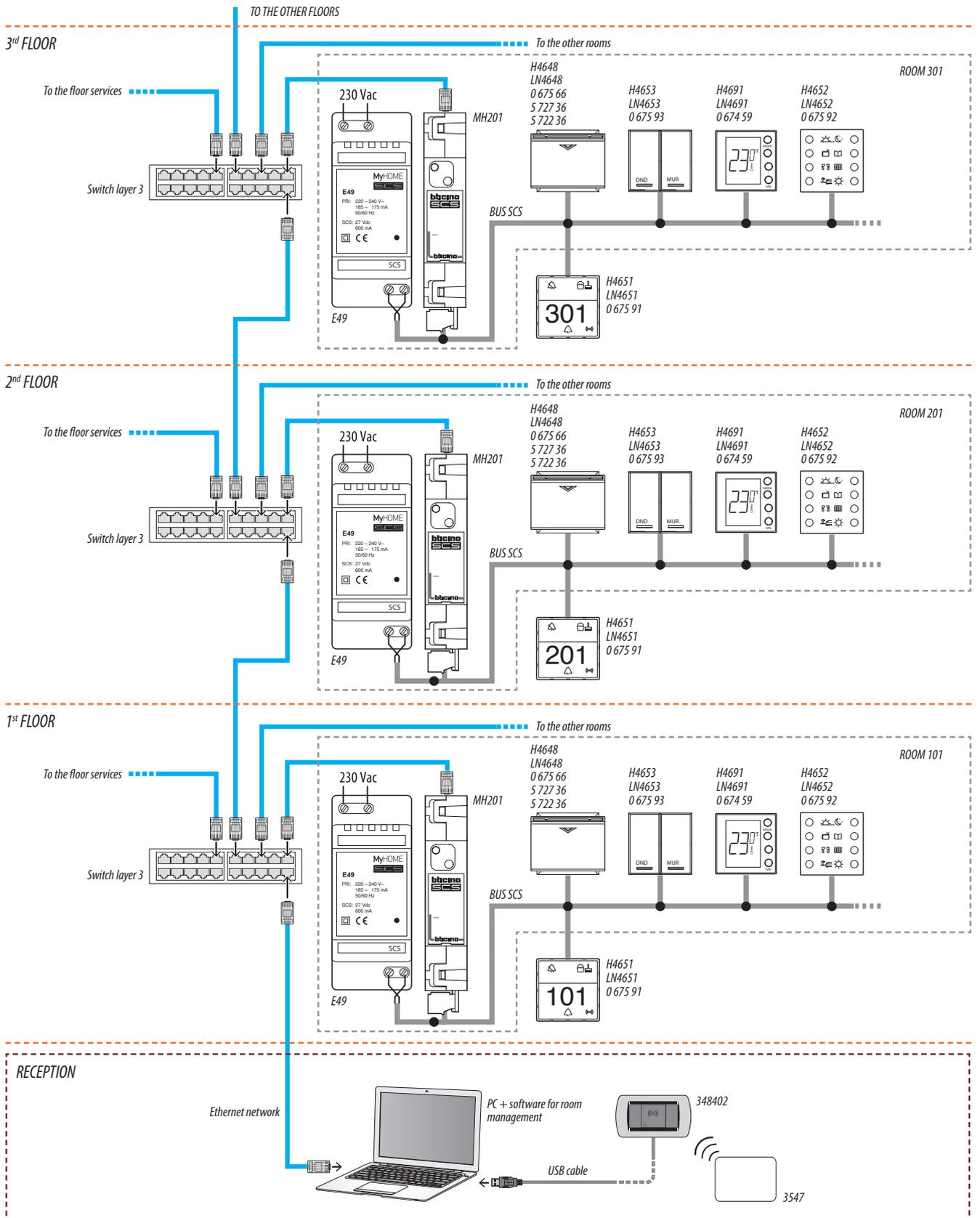
IP 192.168.1.5

Subnet Mask 255.255.255.0

**IP scenario module  
BUS-SCS**

**MH201**

Typical wiring diagram (for programs with over 100 rooms or common areas refer to the technical guide)

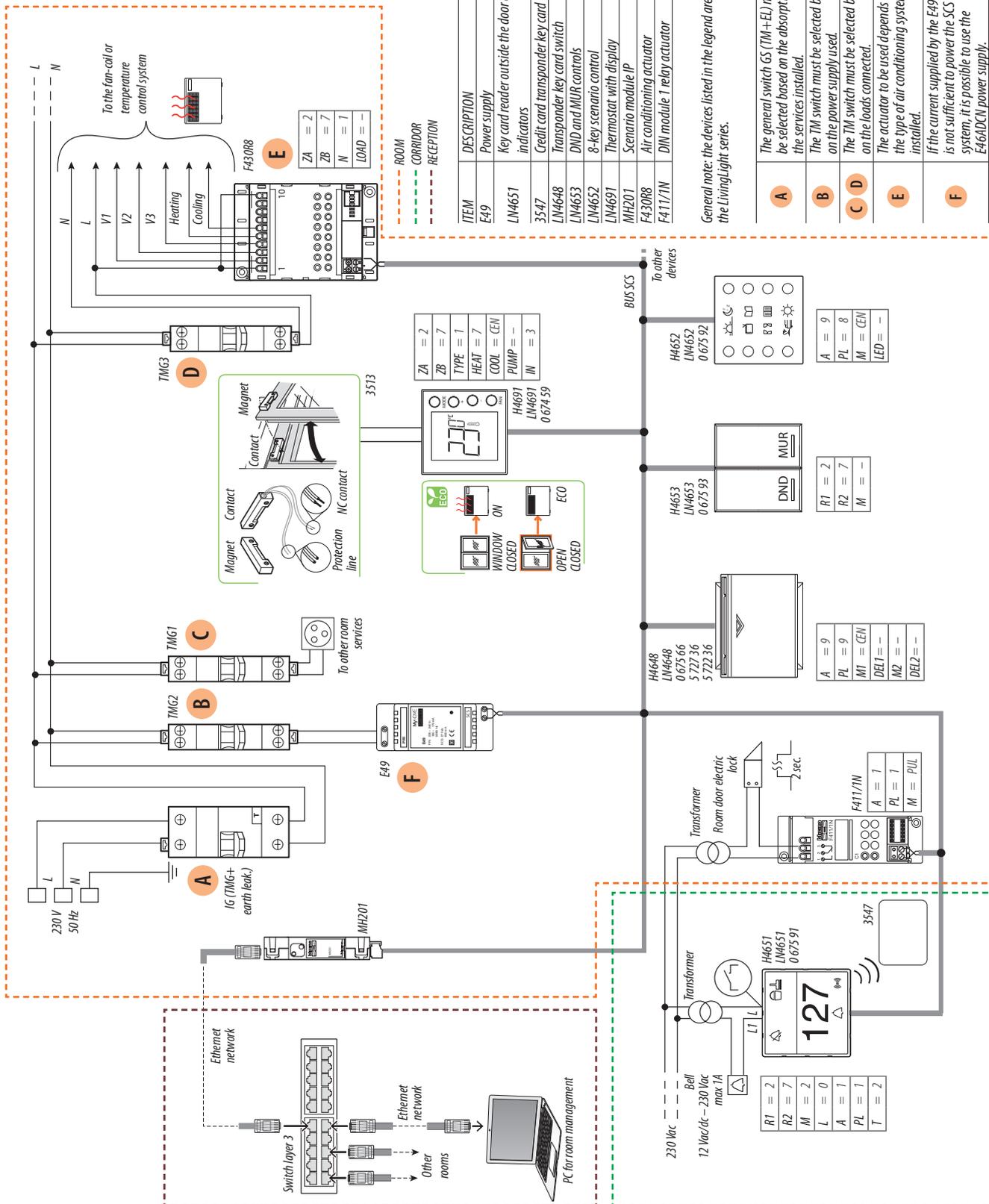


**IP scenario module  
BUS SCS**

**MH201**

**Wiring diagrams**

Principle and configuration diagram for a hotel room

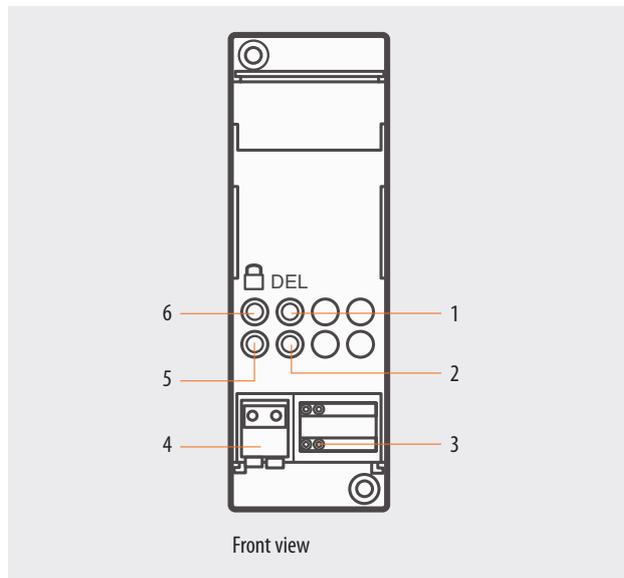


**Description**

Up to 16 scenarios may be saved in the scenario module, with up to 100 controls each. The scenarios can also give door entry and video door entry controls for one-family systems to switch on the staircase lights and open the door lock. If installed in large systems with F422 interface in logical expansion, the module can save automation controls for the system where it is installed. On the front cover of the item there are two keys and two LEDs. The first key (padlock) locks or unlocks the programming procedure avoiding involuntary operations such as cancelling the scenarios and the corresponding LED indicates the status: **green** programming possible, **red** programming blocked, **orange** temporary block. The second key (DEL) cancels all the scenarios, the LED underneath indicates that the cancellation has taken place or that the device is performing the learning procedure.

**Technical data**

Power supply from SCS BUS:	27 Vdc
Operating power supply with SCS BUS:	18 – 27 Vdc
Absorption:	20 mA
Operating temperature:	0 – 40 °C
Size:	2 DIN modules



**Legend**

- 1. Scenario cancellation key
- 2. Scenario/learning reset LED
- 3. Configurator socket
- 4. BUS
- 5. Programming status LED
- 6. Programming lock/unlock key

### Configuration

If the device is installed in a MyHOME system, it can be configured in two ways:

- PHYSICAL CONFIGURATION: by connecting the configurators to the appropriate sockets.
- Configuration performed using MyHOME\_Suite software, which can be downloaded from the website [www.homesystems-legrandgroup.com](http://www.homesystems-legrandgroup.com).

For the list of modes and the corresponding meanings refer to the indications of this data sheet, and to the "Function description" section of the MyHOME\_Suite software.

The combination of the scenario module with a control device is ensured by assigning to both items the same address. This is identified by the configurators with a numeric value for position **A = 0 – 9** and position **PL = 1 – 9**. Several scenario modules may be installed in one system, allocating a different address to each module.

### Scenario programming

To program, change or delete a scenario you need to enable programming module F420 so that the status LED is green (press the locking/unlocking key on the scenario module for at least 0.5 seconds) and then continue with the following steps:

- 1) press one of the four control keys to which the scenario should be associated for 3 seconds and the corresponding LED will start flashing;
- 2) set the scenario using the corresponding controls for the various Automation, Temperature control, Sound system, etc. functions;
- 3) confirm the scenario by briefly pressing the corresponding key on the special control to exit the programming mode;
- 4) to change a scenario, or to create new ones to use with the other keys, repeat the procedure starting from point 1.

To recall an already set scenario, briefly pressing the corresponding key on the control is enough.

If the module does not receive any input for 30 minutes from the start of the learning procedure, programming will automatically be interrupted. If you want to delete a scenario

completely, press and hold down the corresponding key for approximately 10 seconds. To erase the entire memory keep the DEL pushbutton on the Scenario module pressed for 10 seconds, the yellow "reset scenarios" LED flashes quickly. Once the operations have been performed lock the programming by pressing the lock/unlock key for at least 0.5 seconds, so that the corresponding LED becomes red.

### NOTES:

Inside the system itself one Scenario module can be programmed at a time as the other devices are temporarily locked; during this phase the "programming status" LED becomes orange signalling the temporary Lock. During the learning procedure and when there are timed controls or group controls, the Scenario module does not save events for 20 seconds. You must thus wait before continuing with creating the scenario. During the scenario learning procedure only the changes of status are saved. It is important to configure the scenario module with a different A and PL address to that of an actuator. If the configuration is wrong the Programming status LED flashes ORANGE. In case of "virtual" configuration the LED flashes RED.

### 1.1 Addressing

Address type		Virtual configuration (MYHOME_Suite)	Physical configuration
Point-to-point	Room	0-9	A=0-9
	Light point	1-9	PL = 1-9

**BUS-SCS  
server IP**

**F458**

**Description**

The server IP device is part of the devices of the hotel offer and must be used when designing or installing systems with over 100 rooms, or areas with over 100 MH201 installed.

**Default configuration**

Network configuration IP = 192.168.1.51  
 Netmask: 255.255.255.0  
 DHCP and DNS default range in the "MyHOME\_Suite" software vers. 2.0.91: 192.168.1.52 – 192.168.5.49  
 Password OPEN: 12345

**Technical data**

Power supply:	18 – 30 Vdc
Absorption:	55 mA max
Minimum consumption:	1.3 W
Maximum consumption:	3.3 W
Holding date and time without power supply:	48 hours
Operating temperature:	5 – 45 °C

**Standards, certifications, marks**

EN 60669-2-1  
 EN 50491-5-1  
 EN 50428

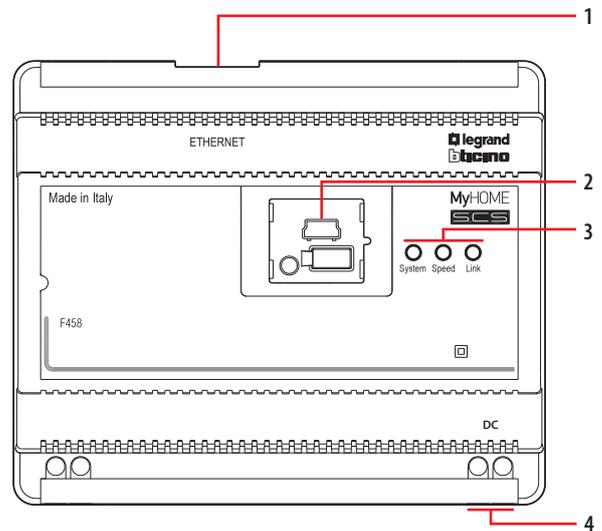
**Dimensional data**

Size: 6 DIN modules

**Configuration**

The device must be configured using the "MyHOME\_Suite" software.

Front view

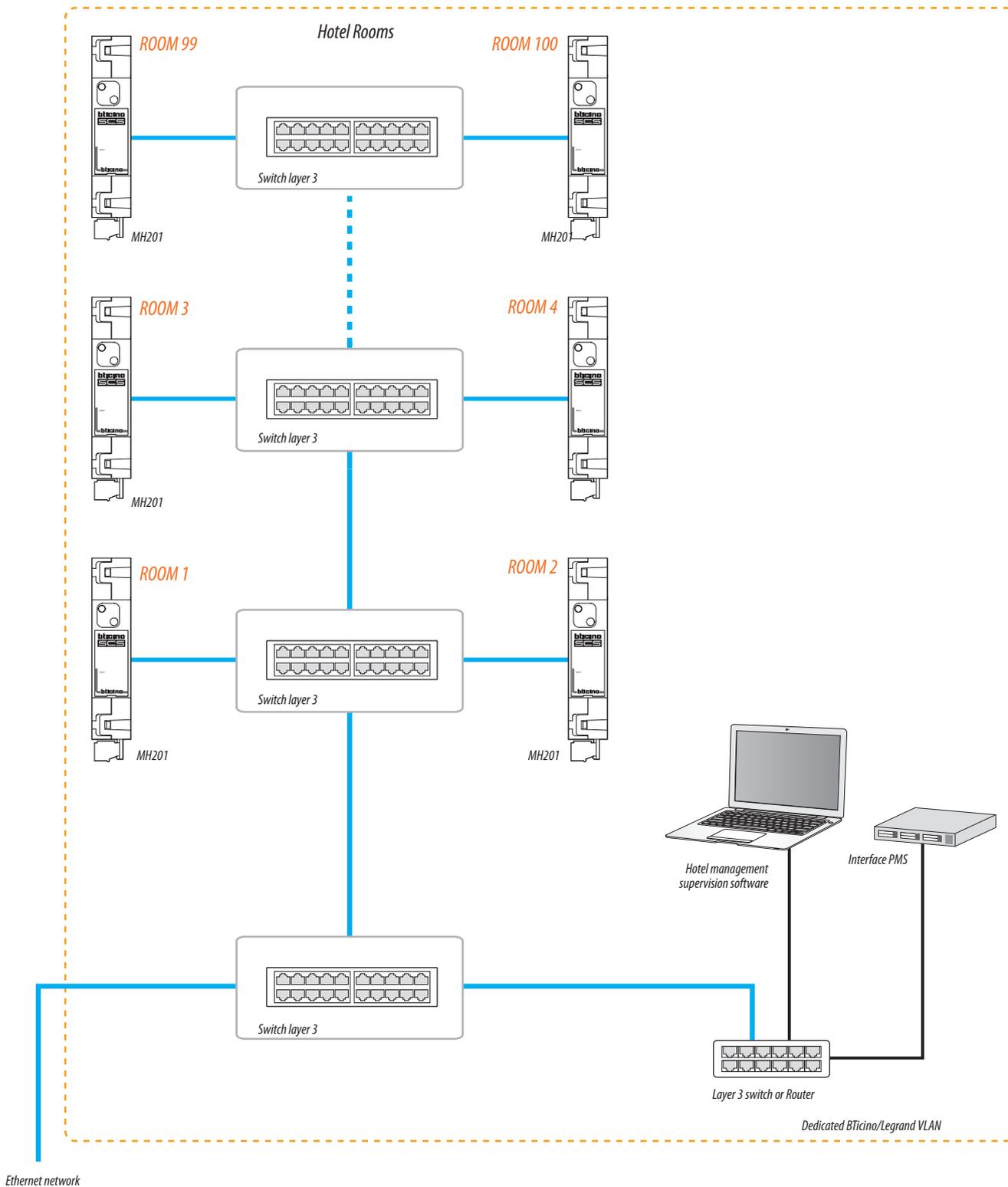


**Legend**

1. RJ45 connector for Ethernet LAN 10/100 Mbit
2. Mini-USB connector for the configuration using the PC and software update
3. LED notifications
  - System LED: it comes on when connecting the power supply, and then it goes off. When it later comes back on steady, it means that the device is working correctly
  - Speed LED: speed of connection to the network:
    - ON = 100 Mbit
    - OFF = 10 Mbit
  - Link LED: when ON, it indicates that the Ethernet network has been found
4. Power supply connection clamps (recommended 346020)

**Wiring diagrams**

Typical diagram of a system with less than 100 areas (rooms + common areas) and one supervision PC.

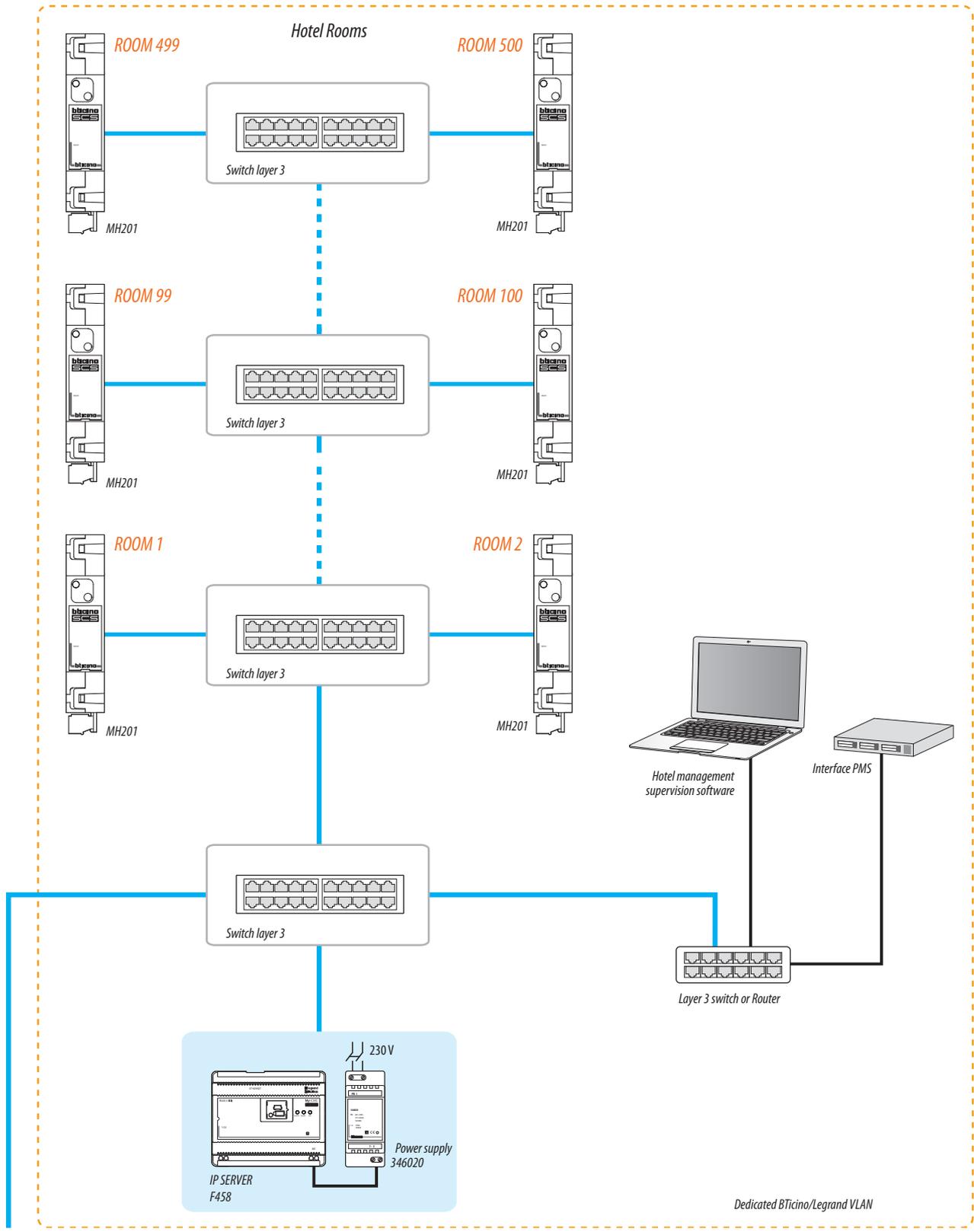


Ethernet network

**BUS-SCS  
server IP**

**Wiring diagrams**

Typical diagram of a system with 100 to 500 areas (rooms + common areas) and one supervision PC.

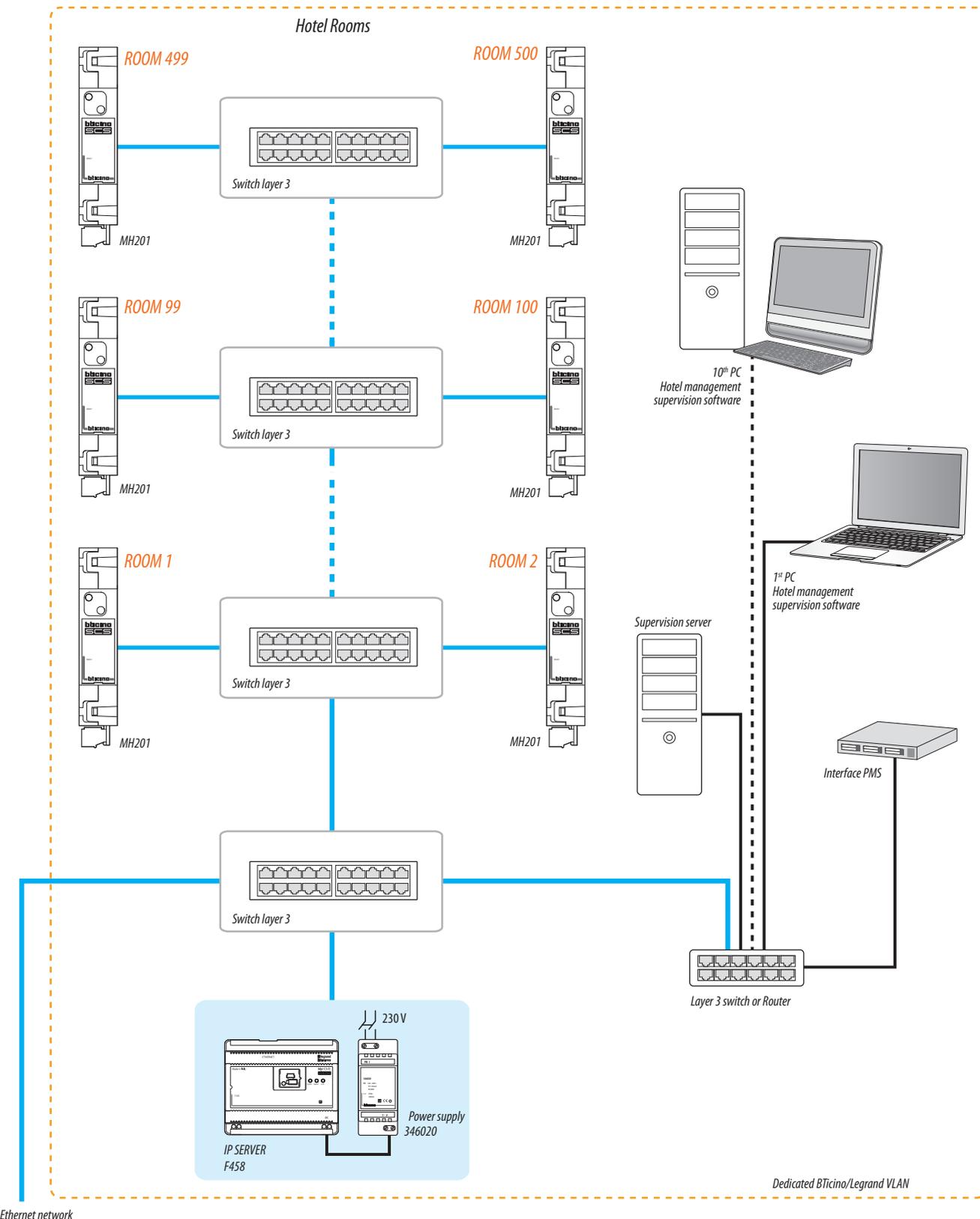


Ethernet network

Dedicated BTicino/Legrand VLAN

**Wiring diagrams**

Typical diagram of a system with up to 500 areas (rooms + common areas) and up to 10 supervision PCs.



Ethernet network

**Thermostat with display**

**H4691 067459  
LN4691 64170**

**Description**

Thermostat with display for the control of the room temperature in temperature control systems.

This device can be used both if a temperature control central unit is present or not present; when appropriately configured it can be used as:

- MyHOME temperature control system probe;
- Hotel room thermostat;
- Residential system thermostat.

It has 4 keys that can be used to select the desired temperature and the various operating modes; when used with fan-coils it can manage the fan speed.

The thermostat can manage different operating modes: both automatic and manual, in addition to the Eco, Comfort, Antifreeze/Thermal protection, and OFF.

It can also be used in mixed heating/cooling systems, if the two functions are available at the same time on the same system.

A contact is also available on the back of the device, to change the operating mode of the thermostat (e.g. window contact, summer/winter switching, etc.).

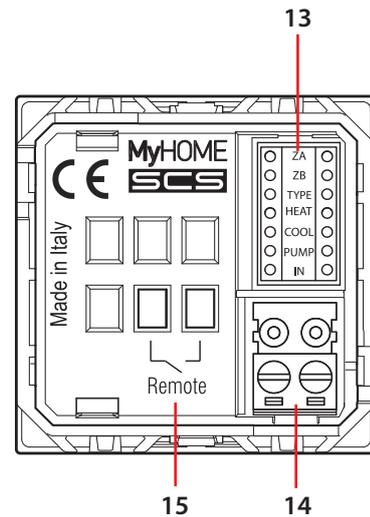
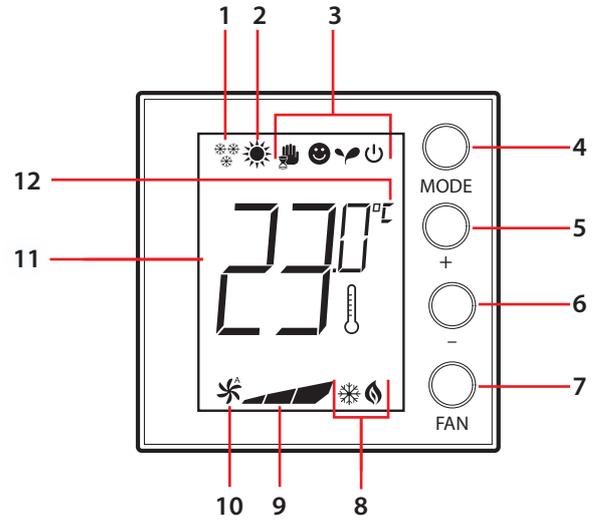
**Technical data**

Power supply from SCS BUS:	18 – 27 Vdc
Absorption:	14 mA with display off 16 mA with low brightness display 30 mA with high brightness display
Operating temperature:	(+5) – (+40) °C
Size:	2 flush mounted modules
Recommended installation height:	150 cm from the ground
Controllable loads:	On/Off, Open/Close, 3-point or 0 – 10 V valves. 2-tube and 4-tube fan-coils with On/Off, 3-point, or 0 – 10 V valves. Gateway Climaveneta. Fil Pilote.

**Correlated devices**

The thermostat must be used with the following actuator devices:

- F430/2: ON/OFF 2-relay actuator;
- F430/4: ON/OFF 4-relay actuator;
- F430R8: ON/OFF 8-relay actuator;
- F430R3V10: ON/OFF 3-relay actuator with 2 x 0 – 10 V outputs;
- F430V10: actuator with 2 x 0 – 10 V outputs;
- F430FP: actuator for Fil Pilote devices.



**Legend**

1. Heating function
2. Cooling function
3. Operating mode icons
4. MODE key: a short pressure changes the mode of operation of the device; an extended pressure (unless used as MyHOME probe) changes the function.
5. + key: increase the set value
6. - key: decrease the set value
7. FAN key: set the fan coil speed on 3 levels + automatic
8. Heating/cooling on indicator
9. Fan coil speed indicator, 3 levels
10. Fan coil in automatic mode indicator
11. Measured (thermometer symbol ON) / set (thermometer symbol OFF temperature indicator
12. Unit of measure: °C or °F
13. Configurator socket
14. Connection to the BUS
15. Local contact

## Thermostat with display

H4691 067459  
LN4691 64170

### Configuration

The thermostat can be configured:

- Through physical configuration, by connecting the configurators to the appropriate sockets on the back of the device. This quick mode is ideal for basic functions, and gives the possibility of setting, in addition to the zone address, also a heating load, a cooling load, up to 2 system pumps, and a quick function for the remote contact.
- Using MyHOME\_Suite (\*), where a dedicated wizard will guide the user through the procedure for correctly configuring the device. The MyHOME\_Suite software gives the possibility of customising the device and provides a higher degree of functionality, such as:
  - The possibility of changing some default parameters (select the unit of measure for the temperature, change the permitted operating temperature, manage the backlighting level, disable some device pushbuttons, etc.).
  - Configure a higher number of loads (up to 9 heating and/or cooling actuators and 9 pumps), and assign slave probes (max. 9).
  - Enable advanced functions, like automatic switching between heating and cooling.
  - Manage dedicated fan-coil settings (e.g. fan speed change threshold settings, or fan activation delay, etc.).
  - Set a delay or a timeout for the actions generated by the status change of the remote contact (in addition to allowing a higher number of combinations than through the physical configuration).

### 1.1 ADDRESSING

By connecting two configurators with value 0-9 in the ZA and ZB sockets, it is possible to set the device address. The controlled actuators will have to be configured with the same address.

Socket	Function	Physical configuration
ZA/ZB	Zone address	from 01 to 99

### 1.2 OPERATING MODE

By configuring the positions **TYPE**, **HEAT**, **COOL**, **PUMP** and **IN**, it is possible to set the desired operating modes and the types of loads to manage.

**TYPE = Type of operation**

Parameter/setting	Physical configuration
MyHOME temperature control system probe <sup>(1)</sup>	0
Hotel room thermostat	1
Residential system thermostat	2

(1) If the device is used as a MyHOME system probe with temperature control central unit, the subsequent positions HEAT, COOL, and PUMP must not be configured. The settings for actuators and pumps will be defined directly from the central unit menu.

**HEAT = Heating load. Configure the corresponding actuator with N=1.**

Parameter/setting	Physical configuration
No device	0
ON/OFF valve	1
Open/Close valve	2
2-tube fan-coil with ON/OFF valve	3
Gateway	4
Fil Pilote	5
2-tube fan-coil with 3-point or 0-10V valve	6
4-tube fan-coil with ON/OFF valves	7
4-tube fan-coil with 3-point or 0-10 V valves	8
3-point or 0-10V valve	9

**COOL = Cooling load. For the configurations from 1 to 9 configure the corresponding actuator with N=2. In case of CEN configurator the actuator will be N=1.**

Parameter/setting	Physical configuration
No device	0
ON/OFF valve	1
Open/Close valve	2
2-tube fan-coil with ON/OFF valve	3
Gateway	4
2-tube fan-coil with 3-point or 0-10V valve	6
4-tube fan-coil with ON/OFF valves	7
4-tube fan-coil with 3-point or 0-10 V valves	8
3-point or 0-10V valve	9
Same load managed for heating and cooling <sup>(2)</sup>	CEN

(2) in case of common heating/cooling load, the configurator set in the HEAT position will have to be different from 0 (no device) or 5 (Fil Pilote).

**PUMP= Number and types of pumps to control**

Parameter/setting	Physical configuration
No device	0
Pump with N= 1 For heating <sup>(3)</sup>	1
Pump with N= 2 For cooling	2
Pump with N= 1 For heating + pump with N= 2 For cooling <sup>(3)</sup>	3
Pump with N= 1 For both heating and cooling <sup>(3)</sup>	4

(3) With this mode it is not possible to define the Fil Pilote device in the HEAT position (configurator 5)

**IN= Function activated by the change of status of the contact on the back of the device**

Contact status/function		Physical configuration
OPEN	CLOSED	
Contact disabled	Contact disabled	0
Thermal protection	Return to the previous status	1
OFF	Return to the previous status	2
ECO	Return to the previous status	3
COMFORT	Return to the previous status	4
Switch to heating <sup>(4)</sup>	Switch to cooling	5

(4) This function cannot be selected when the device is used as probe in MyHOME systems with temperature control central unit.

Note (\*): - software downloadable from the website:  
www.homesystems-legrandgroup.com  
- the functions are available from version 1.3.

**DIN module  
contact interface**

**Description**

This device lets you integrate traditional control devices (switches, pushbuttons, etc.) in advanced systems with BUS operating logic.

Therefore, it is possible to extend the use of the Lighting Management system 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. The old but valuable switch with its no longer compliant wiring can therefore continue to be used with it, as the connection to the load to be controlled is carried out safely by connecting it with its respective interface with no-voltage contact. Contact N1 controls light point PL1, contact N2 controls light point PL2.

It is possible to connect:

- two N/O (normally open) and N/C (normally closed) traditional switches or pushbuttons;
- a two-way switch.

The device is fitted with 2 LEDs to signal contact closure, programming/deletion, and the status of the control devices.

**Technical data**

Power supply from SCS BUS:	27 Vdc
Operating power supply with SCS BUS:	18 – 27 Vdc
Absorption:	9 mA
Dissipated power with maximum load:	0.2 W

**Dimensional data**

Size: 2 DIN modules

**Configuration**

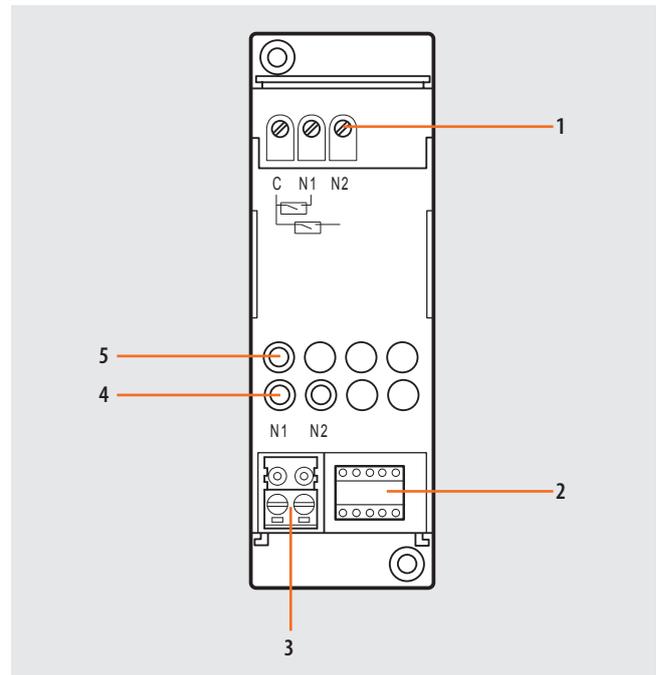
If the device is installed in a MyHOME system, it can be configured in two ways:

- PHYSICAL CONFIGURATION: by connecting the configurators to the appropriate sockets.
- Configuration using the MyHOME\_Suite software, which can be downloaded from the website [www.homesystems-legrandgroup.com](http://www.homesystems-legrandgroup.com); this last type of configuration has the advantage of offering many more options when compared with the physical configuration.

For the list of modes and the corresponding meanings refer to the indications of this data sheet, and to the "Function description" section of the MyHOME\_Suite software. When used as a component of the Lighting Management system, use the specific types of configuration (Plug&go, Project&Download).

The interface consists of two independent control units, which are identified with the positions PL1 and PL2 in the physical configuration and the term Module 1 and Module 2 in the MYHOME\_Suite virtual configuration. The two units can send:

- controls to two actuators for two independent loads (On, Off or adjustment) identified with the address PL1 and PL2 and the mode specified in M or;
- a control to the F420 scenario module;
- a double control intended for a single load (motor for shutters Up-Down, curtains Open-Close) identified with the address PL1=PL2 and specified Configuration mode M. The interface has an LED for indicating proper operation and three terminals for connection to traditional devices such as:



**Legend**

1. Clamps for the connection to traditional devices
2. Configurator socket (warning, to be used only in MY HOME systems with physical configuration).
3. BUS
4. LED
5. Key

- two N/O (normally open) and N/C (normally closed) traditional switches or pushbuttons;
- a two-way switch.

**List of functions**

The device create the following functions:

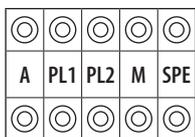
1. LIGHT CONTROL
2. AUTOMATION CONTROL
3. LOCK/UNLOCK OF DEVICES
4. SCENARIO MODULE CONTROL
5. PROGRAMMED SCENARIO ACTIVATION
6. PLUS LIGHTING MANAGEMENT SCENARIO ACTIVATION
7. PLUS PROGRAMMED SCENARIO ACTIVATION
8. SOUND SYSTEM CONTROL

For the configuration modes see the next pages.

# DIN module contact interface

F428

## Physical configuration



The interface consists of two independent control units, which are identified with the positions N1 and N2. The two units can send:

- controls to two actuators for two independent loads (On, Off or adjustment) identified with the address PL1 and PL2 and the mode specified in M or;
- a control to the F420 scenario module;
- a double control intended for a single load (motor for shutters Up-Down, curtains Open-Close) identified with the address PL1=PL2 and specified Configuration mode M.

## Selecting the function

To configure the contact numbers use MYHOME\_Suite virtual configuration

### 1. Light control

#### 1.1 Addressing

Address type		Virtual configuration (MYHOME_Suite)	Physical configuration
Point-to-point	Room	0-10	A=1-9
	Light point	0-15	PL1, PL2=0-9
Room		0-10	A=AMB
Group		1-255	A=GR
General		General	A=GEN

With the virtual configuration, for the room, group and general controls, you can set a light point address for the return of the load status. You can also configure the "Installation level" and the "Destination level".

#### 1.2 Mode

##### 1.2.1 ON/OFF control

Virtual configuration (MYHOME_Suite)		Physical configuration
Function	Parameter / setting	
Type of contact to N1 and N2 clamps	Normally Open (NO)	SPE=0
	Normally Closed (NC)	SPE=7
Cyclical	ON	SPE=0, M=ON
	OFF	SPE=0, M=OFF
	Cyclical (only NO contact)	SPE=1, M=7
Pushbutton	ON with key in N2, OFF with key in N1	SPE=0, M=0/1
	Timed ON	
	0.5sec	SPE=0, M=8
	2sec	SPE=8, M=1
	30sec	SPE=0, M=7
	1min	SPE=0, M=1
	2min	SPE=0, M=2
	3min	SPE=0, M=3
	4min	SPE=0, M=4
	5min	SPE=0, M=5
	10min	SPE=8, M=2
	15min	SPE=0, M=6

For timed ON with a period of from 0-255 hours, 0-59 minutes and 0-59 seconds, use MyHOME\_Suite virtual configuration

**DIN module  
contact interface**

**F428**

**1.2.2 ON/OFF control and ADJUSTMENT (Point-to-Point only):**

Virtual configuration (MYHOME_Suite) Parameter / setting	Physical configuration
Cyclical ON/OFF and ADJUSTMENT ON/OFF when pressing briefly and adjustment when holding down	SPE=0, M=0
ON with button in N2, OFF with button in N1 and DIMMER when held down	SPE=0, M=0/1
ON with adjustment at 10%	SPE=3, M=1
ON with adjustment at 20%	SPE=3, M=2
ON with adjustment at 30%	SPE=3, M=3
ON with adjustment at 40%	SPE=3, M=4
ON with adjustment at 50%	SPE=3, M=5
ON with adjustment at 60%	SPE=3, M=6
ON with adjustment at 70%	SPE=3, M=7
ON with adjustment at 80%	SPE=3, M=8
ON with adjustment at 90%	SPE=3, M=9

For the functions of "Cyclic with custom point-to-point adjustment", "Cyclic with custom adjustment", "Cyclic dimmer without adjustment", "Custom dimmer ON without adjustment", "Custom dimmer OFF without adjustment", "ON with custom adjustment", "OFF with custom adjustment", use MyHOME\_Suite virtual configuration.

**1.2.3 Flashing control**

When an actuator receives a flashing control, it implements it by closing and opening the relay for a time equal to T that can be configured as shown in the table. Combine it with a control configured OFF to switch it off.

Virtual configuration (MYHOME_Suite) Parameter / setting	Physical configuration
Flashing 0.5 s	SPE=2, M=0
Flashing 1 s	SPE=2, M=1
Flashing 1.5 s	SPE=2, M=2
Flashing 2 s	SPE=2, M=3
Flashing 2.5 s	SPE=2, M=4
Flashing 3 s	SPE=2, M=5
Flashing 3.5 s	SPE=2, M=6
Flashing 4 s	SPE=2, M=7
Flashing 4.5 s	SPE=2, M=8
Flashing 5 s	SPE=2, M=9

For flashing with a period of from 5.5 to 8 seconds, use MyHOME\_Suite virtual configuration

## DIN module contact interface

F428

### 2. Automation control

#### 2.1 Addressing

Address type		Virtual configuration (MYHOME_Suite)	Physical configuration
Point-to-point	Room	0-10	A=1-9
	Light point	0-15	PL1, PL2=0-9
Room		0-10	A=AMB
Group		1-255	A=GR
General		general	A=GEN

With the virtual configuration, for the room, group and general controls, you can set a light point address for the return of the load status. You can also configure the "Installation level" and the "Destination level".

#### 2.2 Mode

Virtual configuration (MYHOME_Suite)		Physical configuration
Function	Parameter / setting	
Type of contact to N1 and N2 clamps	Normally Open (NO)	SPE=0
	Normally Closed (NC)	SPE=7
Bistable control		PL1=PL2 SPE=0 M=↑↓
Monostable control		PL1=PL2 SPE=0 M=↑↓M

### 3. Lock/Unlock of devices

#### 3.1 Addressing

Address type		Virtual configuration (MYHOME_Suite)	Physical configuration
Point-to-point	Room	0-10	A=1-9
	Light point	0-15	PL1, PL2=0-9
Room		0-10	A=AMB
Group		1-255	A=GR
General		General	A=GEN

#### 3.2 Mode

Virtual configuration (MYHOME_Suite)		Physical configuration
Function	Parameter / setting	
Type of contact to N1 and N2 clamps	Normally Open (NO)	SPE=0
	Normally Closed (NC)	SPE=7
Disable		SPE=1, M=1
Enable		SPE=1, M=2

To configure the "Installation level" and the "Destination level" and use MYHOME\_Suite virtual configuration

**DIN module  
contact interface**

**F428**

**3. Lock/Unlock of devices**

**3.1 Addressing**

Address type		Virtual configuration (MYHOME_Suite)	Physical configuration
Point-to-point	Room	0-10	A=1-9
	Light point	0-15	PL1, PL2=0-9
Room		0-10	A=AMB
Group		1-255	A=GR
General		General	A=GEN

**3.2 Mode**

Virtual configuration (MYHOME_Suite)		Physical configuration
Function	Parameter / setting	
Type of contact to N1 and N2 clamps	Normally Open (NO)	SPE=0
	Normally Closed (NC)	SPE=7
	Disable	SPE=1, M=1
	Enable	SPE=1, M=2

To configure the "Installation level" and the "Destination level" and use MYHOME\_Suite virtual configuration

**DIN module  
contact interface**

**F428**

**4. Scenario module control**

**4.1 Addressing**

Function	Virtual configuration (MYHOME_Suite)	Physical configuration
Room (of scenario module)	0-10	A=1-9
Light point (of scenario module)	0-15	PL1, PL2=0-9

**NOTE:** PL2 must be equal to PL1, or not be configured (in which case the button connected to terminal PL2 is disabled)

**4.2 Mode**

Function	Virtual configuration (MYHOME_Suite)		Physical configuration
	Parameter / setting		
Type of contact to N1 and N2 clamps	Normally Open (NO)		SPE=0
	Normally Closed (NC)		SPE=7
Scenario activation and modification	Scenario No.		SPE=6 <sup>1)</sup> , M=1-8
	Scenario No.		SPE=4 <sup>2)</sup> , M=1-8

**NOTE:** For flashing with a period of from 5.5 to 8 seconds, use MyHOME\_Suite virtual configuration

**NOTE 1):** With SPE=6 you can call and program scenarios within module F420. M=1-8: group of scenarios to be controlled (see table).

**NOTE 2):** With SPE=4 it is only possible to call up the scenario saved in module item F420.

M=1-8: group of scenarios to be controlled (see table).

M	First PL1 contact	Second PL2 contact
1	1	2
2	3	4
3	5	6
4	7	8
5	9	10
6	11	12
7	13	14
8	15	16

A=0-9 and PL1=1-9 are the room and the light point of the scenario module to be controlled. PL2 must be equal to PL1 or not be configured (in which case the second contact is disabled).

**Scenario programming**

To program, change or delete a scenario you need to enable programming module F420 so that the status LED is green (press the locking/unlocking key on the scenario module for at least 0.5 seconds) and then continue with the following steps:

- 1) press one of the four special control keys to which the scenario should be associated to for 3 seconds and the corresponding LED will start flashing;
- 2) set the scenario using the corresponding controls for the various Automation, Temperature control, Sound system, etc. functions;
- 3) confirm the scenario by briefly pressing the corresponding key on the special control to exit the programming mode;
- 4) to change a scenario, or to create new ones to use with the other keys, repeat the procedure starting from point 1. To recall an already set scenario, briefly pressing the corresponding key on the control is enough. If you want to delete a scenario completely, press and hold down the corresponding key for approximately 10 seconds.

**DIN module  
contact interface**

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**5. Programmed scenario activation**

Enabling keys for sending a control to the scenario programmer MH200N.  
The address of the assigned control in positions A and PL must be unique and match

the scenario to be activated, the control can be connected at any point in the system (local bus or riser).

**5.1 Addressing**

	Virtual configuration (MYHOME_Suite)	Physical configuration
Addressing type		
Room	0-10	A=1-9
Light point	0-15	PL1, PL2=1-9

**NOTE:** If PL1=PL2 the two buttons connected to the interface activate two different scenarios.  
If PL1≠PL2 the two buttons activate the same scenario.

**5.2 Mode**

	Virtual configuration (MYHOME_Suite)	Physical configuration
Type of contact to N1 and N2 clamps	Normally Open (NO)	SPE=0
	Normally Closed (NC)	SPE=7
N1 pushbutton	0-31	SPE=0 M=CEN
N2 pushbutton	0-31	SPE=0 M=CEN

**6. Plus lighting management scenario activation**

For the configuration refer to MyHOME\_Suite

**7. Plus programmed scenario activation**

To configure the address 1 - 2047 of the scenario and the number of pushbuttons 0 - 31 on the control device, use MYHOME\_Suite virtual configuration

## DIN module contact interface

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### 8. Sound system control

This mode allows you to control the amplifiers and the sources of the Sound System.

#### 8.1 Addressing

You can manage a single amplifier (point-to-point control), some amplifiers (room control) and all the amplifiers in the system (general control).

Virtual configuration (MYHOME_Suite)			Physical configuration
			SPE=8
Addressing type	Parameter / setting		
Point-to-point	Room	0-9	0-9
	Audio point	0-9	0-9
Room	Room	0-9	A=AMB PF=0-9
General	General		A=GEN

#### 8.2 Mode

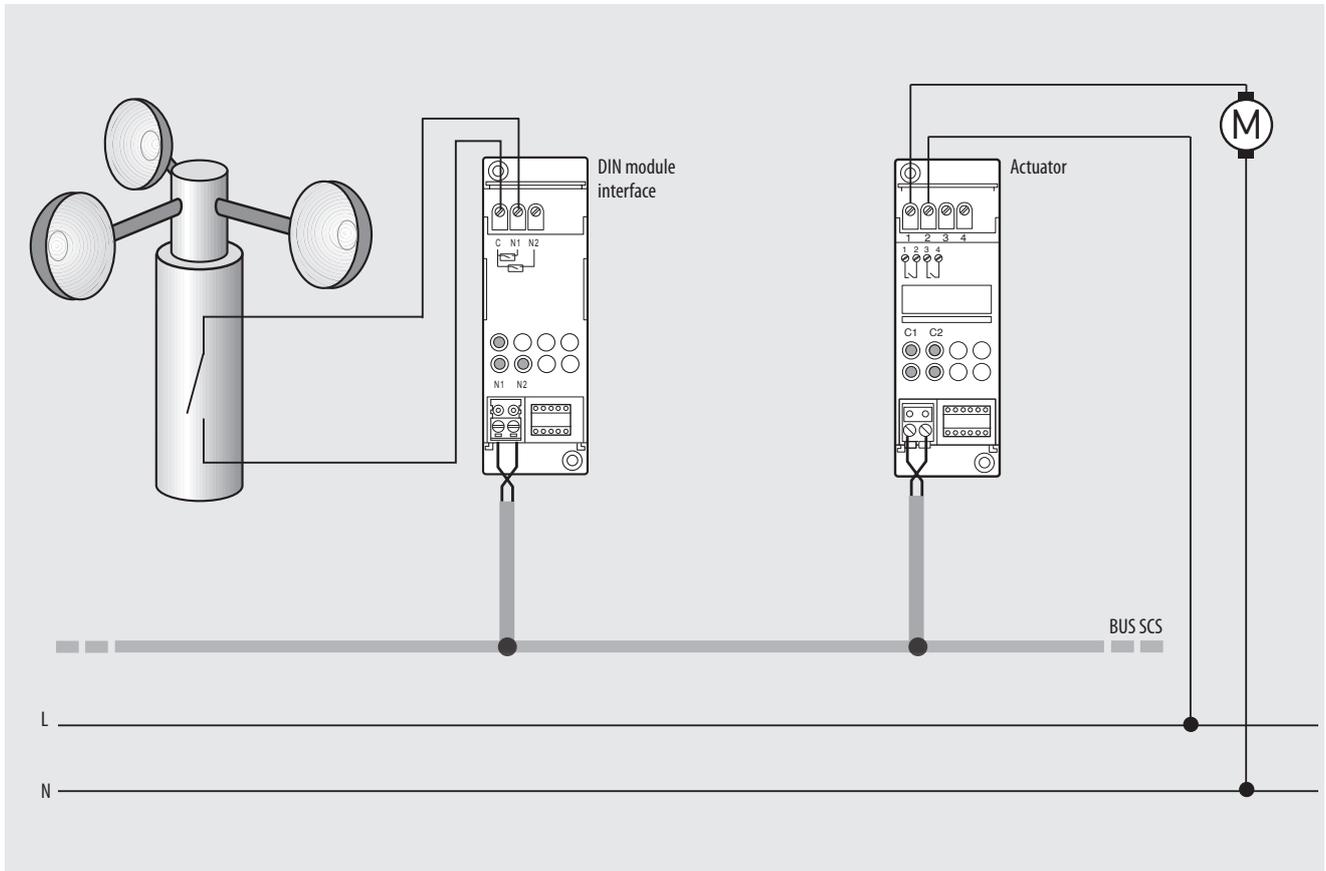
Virtual configuration (MYHOME_Suite)		Physical configuration
Function	Parameter / setting	
Type of contact to N1 and N2 clamps	Normally open	SPE=7
	Normally closed	SPE=0
ON/volume +		SPE=5, M=0 on N1 pushbutton
OFF/volume -		SPE=5, M=0 on N2 pushbutton
Change track		SPE=5, M=1 on N1 pushbutton
Click the source		SPE=5, M=1 on N2 pushbutton
Follow me	YES	SPE=5, M=0
	NO	PL2=0 follow me, PL2=1-4 source

For the "Cyclical ON/OFF" function and to select sources 1-9 use the MYHOME\_Suite virtual configuration

**DIN module  
contact interface**

**F428**

**Wiring diagram**



## Basic contact interface

3477

### Description

This device lets you integrate traditional control devices (switches, pushbuttons, etc.) in advanced systems with BUS operating logic.

Therefore, it is possible to extend the use of the BUS system 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. The old but valuable switch with its no longer compliant wiring can therefore continue to be used with it, as the connection to the load to be controlled is carried out safely by connecting it with its respective interface with no-voltage contact.

Contact PL1 controls light point PL1, contact PL2 controls light point PL2. The interface has a LED for signalling it is working properly and three cables for connecting to traditional devices. This device is made in a Basic enclosure and therefore features a compact size and can be used in flush-mounted boxes, junction boxes, shutter boxes and ducts. Particularly advantageous is the installation inside junction boxes, positioning the item at the back of the flush-mounted box, behind lowered automation devices or behind conventional devices (pushbuttons, switches, etc.).

### Technical data

Power supply from SCS BUS:	27 Vdc
Operating power supply with SCS BUS:	18 – 27 Vdc
Absorption:	3.5 mA

### Dimensional data

Size: basic module

### Configuration

If the device is installed in a MyHOME system, it can be configured in two ways:

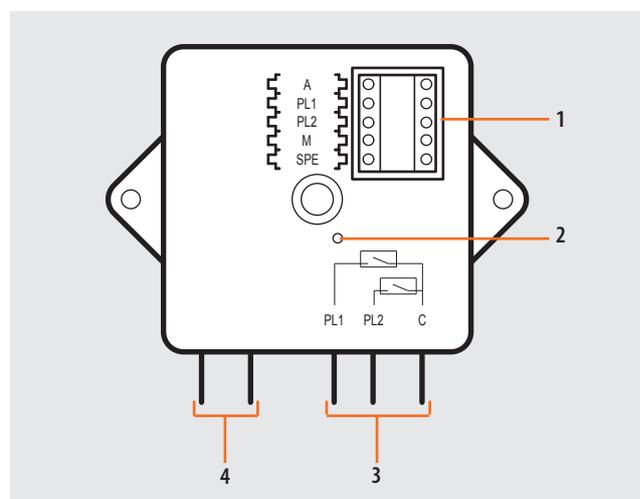
- PHYSICAL CONFIGURATION: by connecting the configurators to the appropriate sockets.
- Configuration using the MyHOME\_Suite software, which can be downloaded from the website [www.homesystems-legrandgroup.com](http://www.homesystems-legrandgroup.com); this last type of configuration has the advantage of offering many more options when compared with the physical configuration.

For the list of modes and the corresponding meanings refer to the indications of this data sheet, and to the "Function description" section of the MyHOME\_Suite software.

When used as a component of the Lighting Management system, use the specific types of configuration (Plug&go, Project&Download).

The interface consists of two independent control units, which are identified with the positions PL1 and PL2 in the physical configuration and the term Module 1 and Module 2 in the MYHOME\_Suite virtual configuration. The two units can send:

- controls to two actuators for two independent loads (On, Off or adjustment) identified with the address PL1 and PL2 and the mode specified in M or;
- a control to the F420 scenario module;
- a double control intended for a single load (motor for shutters Up-Down, curtains Open-Close) identified with the address PL1=PL2 and specified Configuration mode M. The interface has an LED for indicating proper operation and three terminals for connection to traditional devices such as:
- two N/O (normally open) and N/C (normally closed) traditional switches or pushbuttons;
- a two-way switch.



### Legend

1. Configurator socket (warning, to be used only in MY HOME systems with physical configuration)
2. LED
3. Cables for the connection to traditional devices
4. BUS

### List of functions

The device create the following functions:

1. LIGHT CONTROL
2. AUTOMATION CONTROL
3. LOCK/UNLOCK OF DEVICES
4. SCENARIO MODULE CONTROL
5. PROGRAMMED SCENARIO ACTIVATION
6. PLUS PROGRAMMED SCENARIO ACTIVATION
7. AUXILIARY CONTROL
8. SOUND SYSTEM CONTROL

For the configuration modes see the next pages.

**Selecting the function**

To configure the contact numbers use MYHOME\_Suite virtual configuration

**1. Light control**

**1.1 Addressing**

Address type		Virtual configuration (MYHOME_Suite)	Physical configuration
Point-to-point	Room	0-10	A=1-9
	Light point	0-15	PL1, PL2=0-9
Room		0-10	A=AMB
Group		1-255	A=GR
General		General	A=GEN

**Installation and destination level:**

The special control can also be used in systems where there are SCS/SCS interfaces (F422). or more actuators located on the BUS of another interface (destination level). By installing the control on the BUS of an interface (installation level), you can control one

Function		Virtual configuration (MYHOME_Suite)	Physical configuration
Destination level	Local Bus	1-15	I= 1-9
	Riser Bus	riser	I=CEN
	Complete system	all the system	I=0

**NOTE:** With the virtual configuration, for the room, group and general controls, you can set a light point address for the return of the load status

**1.2 Mode**

**1.2.1 ON/OFF control**

Function	Virtual configuration (MYHOME_Suite)		Physical configuration
	Parameter / setting		
Type of contact to PL1 and PL2 clamps	Normally Open (NO)		SPE=0
	Normally Closed (NC)		SPE=7
Cyclical	ON		SPE=0, M=ON
	OFF		SPE=0, M=OFF
Cyclical (only NO contact)			SPE=1, M=7
Pushbutton	ON with key in PL2, OFF with key in PL1		SPE=0, M=0/1
	Timed ON		
	0.5sec		SPE=0, M=8
	2sec		SPE=8, M=1
	30sec		SPE=0, M=7
	1min		SPE=0, M=1
	2min		SPE=0, M=2
	3min		SPE=0, M=3
	4min		SPE=0, M=4
	5min		SPE=0, M=5
	10min		SPE=8, M=2
	15min		SPE=0, M=6

For timed ON with a period of from 0-255 hours, 0-59 minutes and 0-59 seconds, use MyHOME\_Suite virtual configuration

## Basic contact interface

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### 1.2.2 ON/OFF control and ADJUSTMENT (Point-to-Point only):

Virtual configuration (MYHOME_Suite)	Physical configuration
Parameter / setting	
Cyclical ON/OFF and ADJUSTMENT ON/OFF when pressing briefly and adjustment when holding down	SPE=0, M=0
ON with button in PL2, OFF with button in PL1 and DIMMER when held down	SPE=0, M=0/1
ON with adjustment at 10%	SPE=3, M=1
ON with adjustment at 20%	SPE=3, M=2
ON with adjustment at 30%	SPE=3, M=3
ON with adjustment at 40%	SPE=3, M=4
ON with adjustment at 50%	SPE=3, M=5
ON with adjustment at 60%	SPE=3, M=6
ON with adjustment at 70%	SPE=3, M=7
ON with adjustment at 80%	SPE=3, M=8
ON with adjustment at 90%	SPE=3, M=9

For the functions of "Cyclic with custom point-to-point adjustment", "Cyclic with custom adjustment", "Cyclic dimmer without adjustment", "Custom dimmer ON without

adjustment", "Custom dimmer OFF without adjustment", "ON with custom adjustment", "OFF with custom adjustment", use MyHOME\_Suite virtual configuration.

### 1.2.3 Flashing control

When an actuator receives a flashing control, it implements it by closing and opening the relay for a time equal to T that can be configured as shown in the table.

Combine it with a control configured OFF to switch it off.

Virtual configuration (MYHOME_Suite)	Physical configuration
Parameter / setting	
Flashing 0.5 s	SPE=2, M=0
Flashing 1 s	SPE=2, M=1
Flashing 1.5 s	SPE=2, M=2
Flashing 2 s	SPE=2, M=3
Flashing 2.5 s	SPE=2, M=4
Flashing 3 s	SPE=2, M=5
Flashing 3.5 s	SPE=2, M=6
Flashing 4 s	SPE=2, M=7
Flashing 4.5 s	SPE=2, M=8
Flashing 5 s	SPE=2, M=9

For flashing with a period of from 5.5 to 8 seconds, use MyHOME\_Suite virtual configuration

**Basic contact interface**

**3477**

**2. Automation control**

**2.1 Addressing**

Address type		Virtual configuration (MYHOME_Suite)	Physical configuration
Point-to-point	Room	0-10	A=1-9
	Light point	0-15	PL1, PL2=0-9
Room		0-10	A=AMB
Group		1-255	A=GR
General		general	A=GEN

**Installation and destination level:**

The special control can also be used in systems where there are SCS/SCS interfaces (F422). or more actuators located on the BUS of another interface (destination level). By installing the control on the BUS of an interface (installation level), you can control one

Function		Virtual configuration (MYHOME_Suite)	Physical configuration
Destination level	Local Bus	1-15	I= 1-9
	Riser Bus	riser	I=CEN
	Complete system	all the system	I=0

**NOTE:** With the virtual configuration, for the room, group and general controls, you can set a light point address for the return of the load status

**2.2 Mode**

Virtual configuration (MYHOME_Suite)		Physical configuration
Function	Parameter / setting	
Type of contact to PL1 and PL2 clamps	Normally Open (NO)	SPE=0
	Normally Closed (NC)	SPE=7
Bistable control		PL1=PL2 SPE=0 M=↑↓
Monostable control		PL1=PL2 SPE=0 M=↑↓M

**3. Lock/Unlock of devices**

**3.1 Addressing**

Address type		Virtual configuration (MYHOME_Suite)	Physical configuration
Point-to-point	Room	0-10	A=1-9
	Light point	0-15	PL1, PL2=0-9
Room		0-10	A=AMB
Group		1-255	A=GR
General		General	A=GEN

## Basic contact interface

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### 3.2 Mode

Virtual configuration (MYHOME_Suite)		Physical configuration
Function	Parameter / setting	
Type of contact to PL1 and PL2 clamps	Normally Open (NO)	SPE=0
	Normally Closed (NC)	SPE=7
	Disable	SPE=1, M=1
	Enable	SPE=1, M=2

To configure the "Installation level" and the "Destination level" and use MYHOME\_Suite virtual configuration

## 4. Scenario module control

### 4.1 Addressing

Function	Virtual configuration (MYHOME_Suite)	Physical configuration
Room (of scenario module)	0-10	A=1-9
Light point (of scenario module)	0-15	PL1, PL2=0-9

**NOTE:** PL2 must be equal to PL1, or not be configured (in which case the button connected to terminal PL2 is disabled)

### 4.2 Mode

Virtual configuration (MYHOME_Suite)		Physical configuration
Function	Parameter / setting	
Type of contact to PL1 and PL2 clamps	Normally Open (NO)	SPE=0
	Normally Closed (NC)	SPE=7
Scenario activation and modification		
Scenario No.	1-16	SPE=6 <sup>1)</sup> , M=1-8
Scenario activation		
Scenario No.	1-16	SPE=4 <sup>2)</sup> , M=1-8

For flashing with a period of from 5.5 to 8 seconds, use MyHOME\_Suite virtual configuration

**NOTE 1):** With SPE=6 you can call and program scenarios within module F420. M=1-8: group of scenarios to be controlled (see table).

**NOTE 2):** With SPE=4 it is only possible to call up the scenario saved in module item F420. M=1-8: group of scenarios to be controlled (see table).

M	First PL1 contact	Second PL2 contact
1	1	2
2	3	4
3	5	6
4	7	8
5	9	10
6	11	12
7	13	14
8	15	16

A=0-9 and PL1=1-9 are the room and the light point of the scenario module to be controlled. PL2 must be equal to PL1 or not be configured (in which case the second contact is disabled).

### Scenario programming

To program, change or delete a scenario you need to enable programming module F420 so that the status LED is green (press the locking/unlocking key on the scenario module for at least 0.5 seconds) and then continue with the following steps:

- 1) press one of the four special control keys to which the scenario should be associated to for 3 seconds and the corresponding LED will start flashing;
- 2) set the scenario using the corresponding controls for the various Automation, Temperature control, Sound system, etc. functions;
- 3) confirm the scenario by briefly pressing the corresponding key on the special control to exit the programming mode;
- 4) to change a scenario, or to create new ones to use with the other keys, repeat the procedure starting from point 1. To recall an already set scenario, briefly pressing the corresponding key on the control is enough. If you want to delete a scenario completely, press and hold down the corresponding key for approximately 10 seconds.

**5. Programmed scenario activation**

Enabling keys for sending a control to the scenario programmer MH200N. The address of the assigned control in positions A and PL must be unique and match the scenario to be activated. The control can be connected at any point in the system (local bus or riser).

**5.1 Addressing**

	Virtual configuration (MYHOME_Suite)	Physical configuration
Addressing type		
Room	0-10	A=1-9
Light point	0-15	PL1, PL2=1-9

**NOTE:** If PL1=PL2 the two buttons connected to the interface activate two different scenarios.  
If PL1≠PL2 the two buttons activate the same scenario.

**5.2 Mode**

	Virtual configuration (MYHOME_Suite)	Physical configuration
Type of contact to PL1 and PL2 clamps	Normally Open (NO)	SPE=0
	Normally Closed (NC)	SPE=7
PL1 pushbutton	0-31	SPE=0 M=CEN
PL2 pushbutton	0-31	SPE=0 M=CEN

**6. Plus lighting management scenario activation**

For the configuration refer to MyHOME\_Suite

**7. Plus programmed scenario activation**

To configure the address 1 - 2047 of the scenario and the number of pushbuttons 0 - 31 on the control device, use MYHOME\_Suite virtual configuration

**8. Auxiliary control**

For the configuration refer to MyHOME\_Suite

## Basic contact interface

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## 9. Sound system control

This mode allows you to control the amplifiers and the sources of the Sound System.

## 9.1 Addressing

You can manage a single amplifier (point-to-point control), some amplifiers (room control) and all the amplifiers in the system (general control).

Virtual configuration (MYHOME_Suite)			Physical configuration
Addressing type	Parameter / setting		
Point-to-point	Room	0-9	0-9
	Audio point	0-9	0-9
Room	Room	0-9	A=AMB
			PF=0-9
General	General		A=GEN

## 9.2 Mode

Virtual configuration (MYHOME_Suite)			Physical configuration
Function	Parameter / setting		
Type of contact to PL1 and PL2 clamps	Normally Open (NO)		SPE=0
	Normally Closed (NC)		SPE=7
	ON/volume +		SPE=5, M=0 (for pushbutton in PL1)
	OFF/volume -		SPE=5, M=0 (for pushbutton in PL2)
	Change track		SPE=5, M=1 (for pushbutton in PL1)
	Click the source		SPE=5, M=1 (for pushbutton in PL2)

For the "Cyclical ON/OFF" function and to select sources 1-9 use the MYHOME\_Suite virtual configuration

## Follow me mode

Enables, upon powering the amplifier, activating the last source switched on.

Virtual configuration (MYHOME_Suite)			Physical configuration
Function	Parameter / setting		
Switch back on from the last source	YES	YES	M=0
	NO	Definition of the source 1-4	M=1÷4 <sup>1)</sup>

**NOTE 1):** indicates the sound source to be activated before switching on the amplifier.

**Basic contact interface**

**Example:**

By properly configuring the interface, the following functions are performed:

**M=0 ON/OFF mode**

Contact in PL1:

Briefly pressing sends out the following sequence:

- ON sources, PL2 indicates the source to be activated before switching on the amplifier.  
If PL2=0 source 1 is turned on (follow-me mode)
- ON of the A/PL1 amplifier

On holding down:

- For point-to-point controls if the amplifier is already on, only the volume is adjusted (VOL+); if the amplifier is off, the switch-on sequence is sent first.
- For GEN or AMB controls only the volume is adjusted.

Contact in PL2:

Briefly pressing sends the OFF control for the A/PL1 amplifier

Pressing and holding down adjusts the volume (VOL-)

In this operating mode:

Point-Point control

A=1-9 amplifier room

PL1=0-9 audio point of the amplifier

Room control

A=AMB

PL1=1-9 room of amplifiers where the control is directed

General control

A=GEN

PL1=0

PL2=1-4 indicates the source to be activated before switching on the amplifier.

If PL2=0 follow-me mode is turned on

**M=1 Cycle source/Cycle track mode**

N1 contact: source cycling

N2 contact: track cycling

In this operating mode:

Room controls

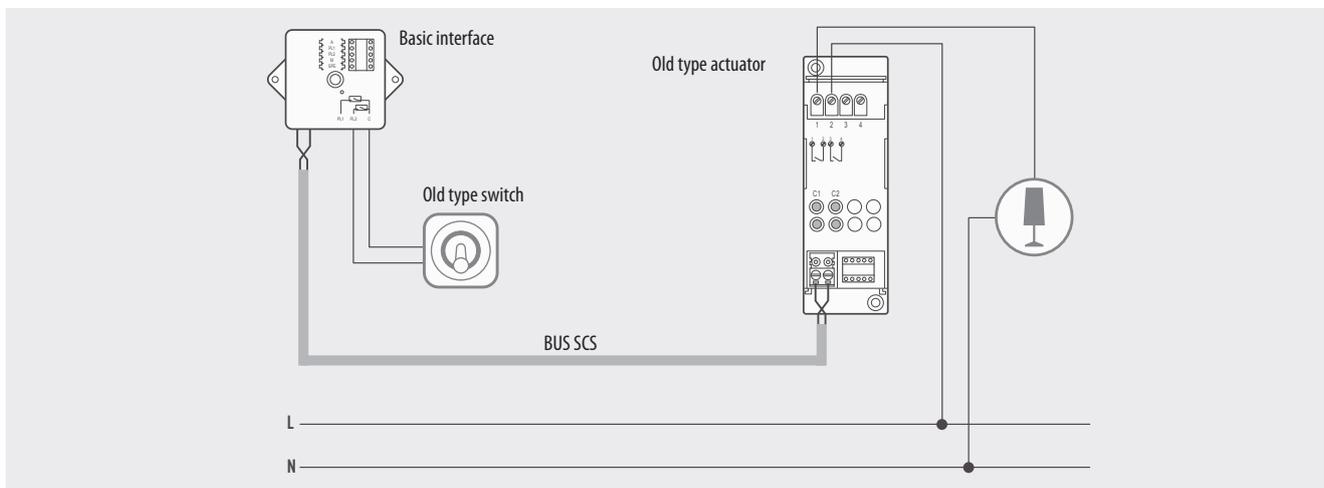
A=1-9 is the amplifier room

General controls

A=GEN for general controls

PL1=PL2=0

**Wiring diagram**



## SCS/BUS cable (grey)

L4669 - L4669/500

## Description

This cable is used for the distribution of the power supplies and the operating signals to all system devices.

The cable consists of a grey external sheathing and two twisted flexible conductors with a section of 0.35 mm<sup>2</sup>, one blue and one white.

It is sold in 2 different types of coils:

- 100 m coil item L4669
- 500 m coil item L4669/500

The cable has 300/500 V insulation. Using the clear clamp protections included in all the devices, the systems can also be installed in the same boxes and ducts as the power lines (110 Vac, 127 Vac and 230 Vac).

**The grey BUS/SCS cable is not suitable for underground installation even in appropriate conduits.**

## Technical data

Insulation voltage: 300/500 V

Underground installation: NO

External sheath colour: grey (RAL 7001)

Diameter of the external sheath: 5.5 +/- 0.1 mm

Thickness of the external sheath: 0.8 mm

Material of the external sheath: PVC (RZ)

Number of internal conductors 2 sheathed unshielded twisted flexible conductors.

Colour of internal conductors: white and blue

Thickness of the internal conductor sheath: 0.60 mm

Material of the internal conductor sheath: PVC (R2)

Conductor material: red electrolytic copper

Conductor section: 0.35 mm<sup>2</sup> (12 x 0.20 mm<sup>2</sup>)

Operating temperature: (-15) – (+70) °C

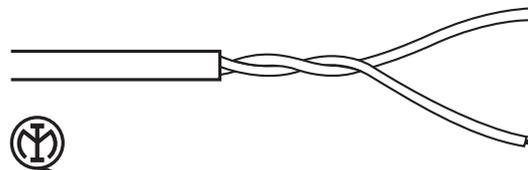
Max. short circuit temperature: 150°C

Coil length: 100 m or 500 m

## Standards, certifications, marks

Standards of reference - the cable meets the requirements of the standards: EN60811, EN50289, EN50290, EN60228, EN50265-2-1, EN50395, EN50396 as described in the IMQ CPT 062 document.

Marks obtained:



## Installation notes

Although on a construction point of view the grey cable guarantees 300/500 V category electrical insulation, the correct operation of the devices is not guaranteed in the following cases when installed together with the energy cables:

- industrial environments,
- in residential/service sector environments, when the power cables provide power supply to:
  - lifts,
  - inverters
  - pumps,
  - motors and controlled motors,
  - metal iodines lamps.

**BUS/SCS AV (white) cable****336904****Description**

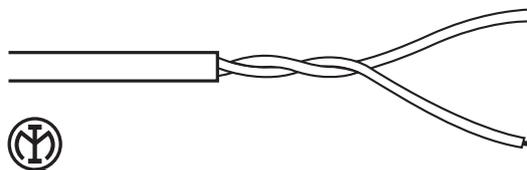
This cable is used to distribute all the power supplies and operating signals to the BUS devices of the system.

It consists of a white external sheath and two 50 mm<sup>2</sup> section brown and brown/white flexible twisted conductors. It is sold in 200 m coils.

Therefore, it is suitable to be used in:

- Free air installation, inside trunking, trays and conduits
- Inside masonry walls, in appropriate conduits
- Underground, in appropriate conduits

The white SCS-BUS cable is suitable for underground installation in appropriate conduits.

**Technical data**

Insulation voltage: 450/750 V

Underground installation: YES (see installation notes)

Colour of external sheath: white (RAL 9010)

Diameter of the external sheath: 5.0 +/- 0.1 mm

Thickness of the external sheath: 0.7 mm

Material of the external sheath: PVC (RZ)

Number of internal conductors 2 sheathed unshielded twisted flexible conductors.

Colour of internal conductors: brown - brown/white

Thickness of the internal conductor sheath: 0.40 mm

Diameter of the internal conductor sheath: 1.70 mm

Material of the internal conductor sheath: LDPE polyethylene

Conductor material: red electrolytic copper

Conductor section: 0.50 mm<sup>2</sup> (16 x 0.20 mm<sup>2</sup>)

Operating temperature: (-15) – (+70) °C

Coil length: 200 m

**Installation notes****Cable underground installation**

The 336904 BUS/SCS cable can be installed underground (protected inside appropriate conduits), together with other signal cables, for voltages <50V.

Installation of cable 336904 together with power cables with energies >50V is strictly forbidden. Failure to comply with the installation requirements shall entitle BTicino to reject all liabilities on the operation of the systems installed.

**Cohabitation with other cables**

Although the construction of the white cable guarantees the necessary electrical insulation for cohabitation with 450/750V system cables, there is no guarantee of immunity from electromagnetic disturbance, which may occur when the cable is installed inside the same conduits as the energy cables.

It is therefore strongly recommended that the white BUS/SCS cable and the power cables are installed in different conduits.

**Standards, certifications, marks**

Standards of reference - the cable meets the requirements of the standards: EN60811, EN50289, EN50290, EN60228, EN50265-2-1, EN50395, EN50396 as described in the IMQ CPT 062 document.

Marks obtained:



**BUS/SCS AV (white) halogen free cable****L4669HF****Description**

This white BUS-SCS cable has been purposely designed and manufactured for installation in areas with particularly strong fire hazards. Produced without halogens, the cable will burn without releasing toxic substances or heavy, dense smoke, significantly increasing the safety level.

This cable is used to distribute all the power supplies and operating signals to the BUS devices of the system.

It consists of a white external sheath and two 50 mm<sup>2</sup> section brown and brown/white flexible twisted conductors. It is sold in 200 m coils.

Therefore, it is suitable to be used in:

- Free air installation, inside trunking, trays and conduits
- Inside masonry walls, in appropriate conduits
- Underground, in appropriate conduits

The white SCS-BUS cable is suitable for underground installation in appropriate conduits.

**Technical data**

Insulation voltage: 450/750 V

Underground installation: YES - protected by appropriate conduits

Colour of external sheath: white (RAL 9010)

Diameter of the external sheath: 5.2 +/- 0.1 mm

Thickness of the external sheath: 0.8 mm

Material of the external sheath: LDFRPE Thermoplastic quality M1, hardness 95 A Shore

Number of internal conductors 2 sheathed unshielded twisted flexible conductors.

Colour of internal conductors: brown - brown/white

Thickness of the internal conductor sheath: 0.45 mm

Material of the internal conductor sheath: LDPE polyethylene

Conductor material: red electrolytic copper

Conductor section: 0.52 mm<sup>2</sup> (7 x 0.308 mm<sup>2</sup>)

Operating temperature: (-15) – (+70) °C

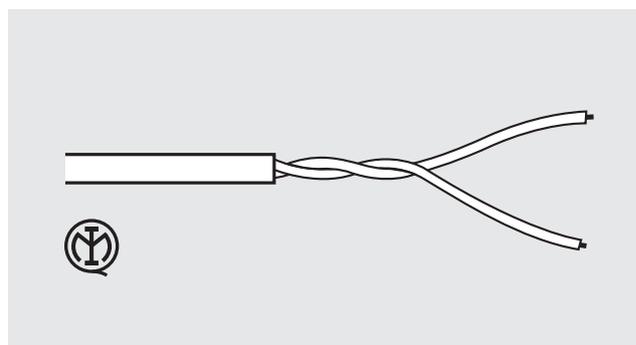
Max. short circuit temperature: 150°C

Coil length: 200 m

**Standards, certifications, marks**

Standards of reference - the cable meets the requirements of the standards: UL13, UL1581, EN60811, EN50289, EN50290, EN60228, EN50265-2-1, EN50395, EN50396 as described in the IMQ CPT 062 document.

Marks obtained:

**Installation notes****Cable underground installation**

The 336940 BUS/SCS cable can be installed underground (protected inside appropriate conduits), together with other signal cables, for voltages <50V.

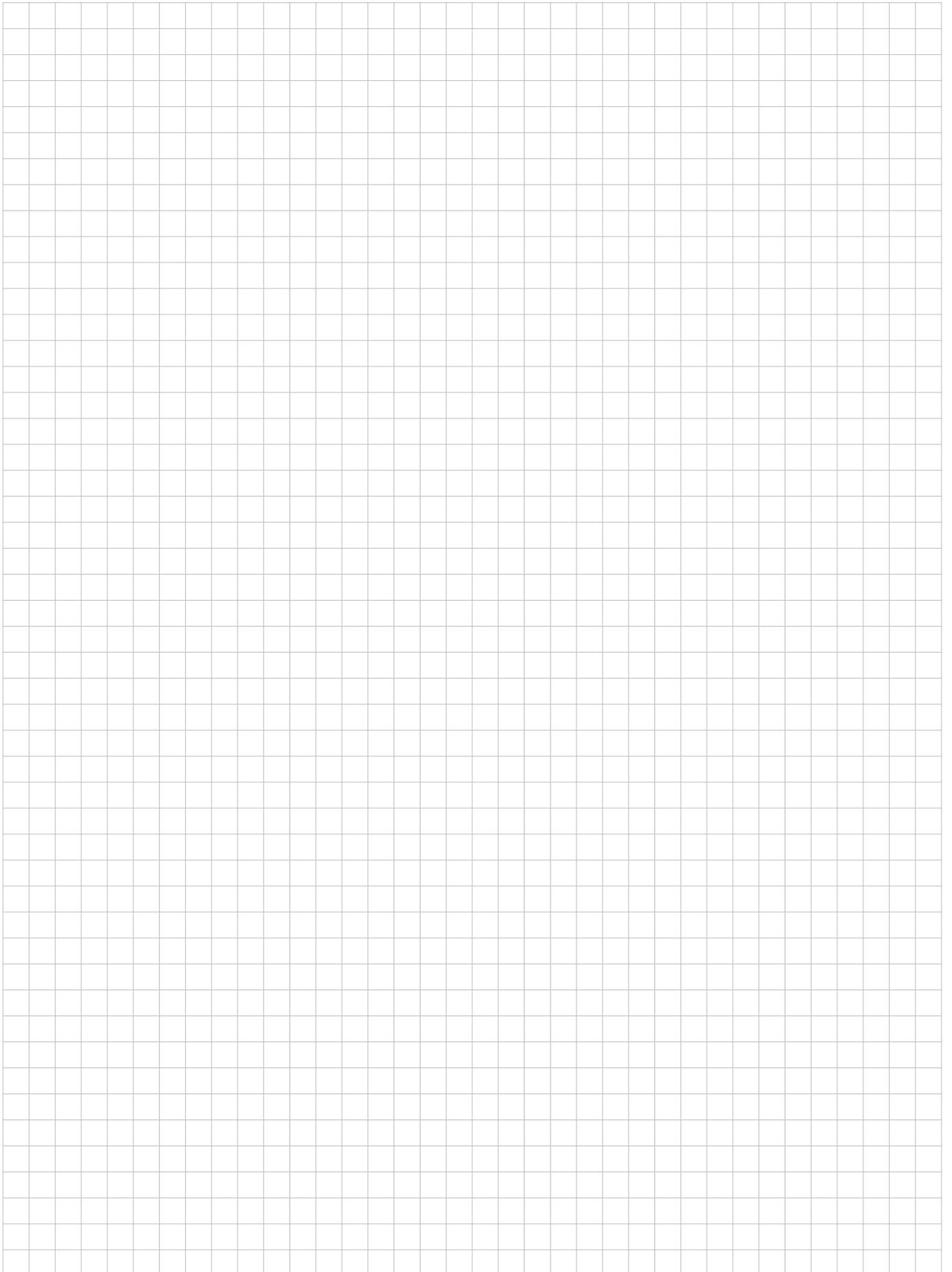
Installation of cable 336904 together with power cables with energies >50V is strictly forbidden. Failure to comply with the installation requirements shall entitle BTicino to reject all liabilities on the operation of the systems installed.

**Cohabitation with other cables**

Although the construction of the white cable guarantees the necessary electrical insulation for cohabitation with 450/750V system cables, there is no guarantee of immunity from electromagnetic disturbance, which may occur when the cable is installed inside the same conduits as the energy cables.

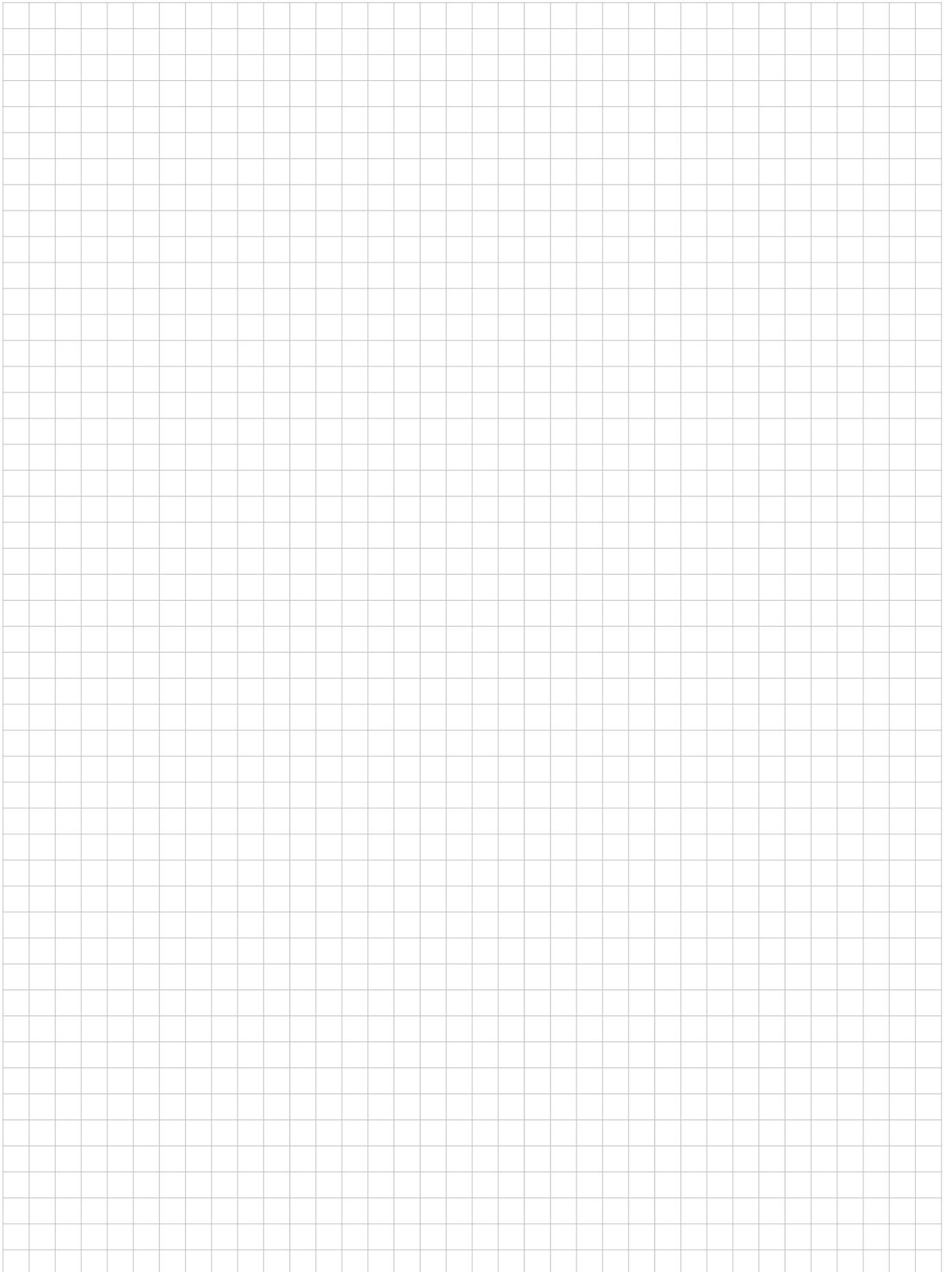
It is therefore strongly recommended that the white BUS/SCS cable and the power cables are installed in different conduits.

# NOTES





# NOTES





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