A Group brand | legrand

GUEST ROOM MANAGEMENT SYSTEM

Guide for design and installation

INTEGRATED SOLUTIONS WITH SCS-BUS TECHNOLOGY

bticino

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

INSIDE THE ROOM

- 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

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

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

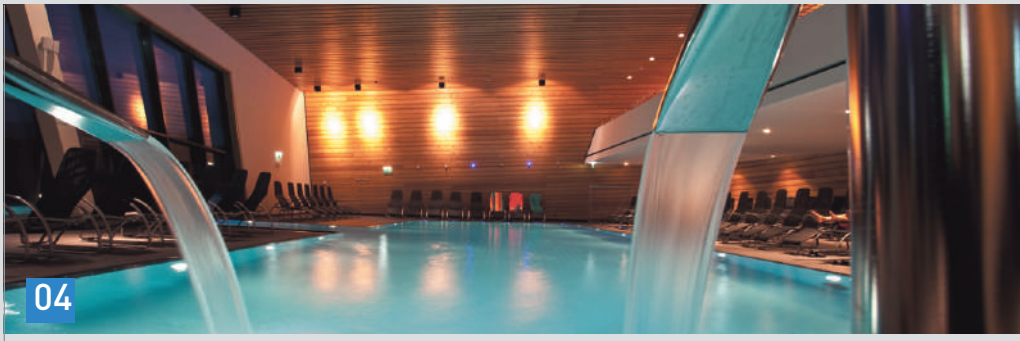
INTEGRATION OF THE SCS-BUS SYSTEM WITH SOLUTIONS AND SYSTEMS OF OTHER BRANDS

AT THE RECEPTION

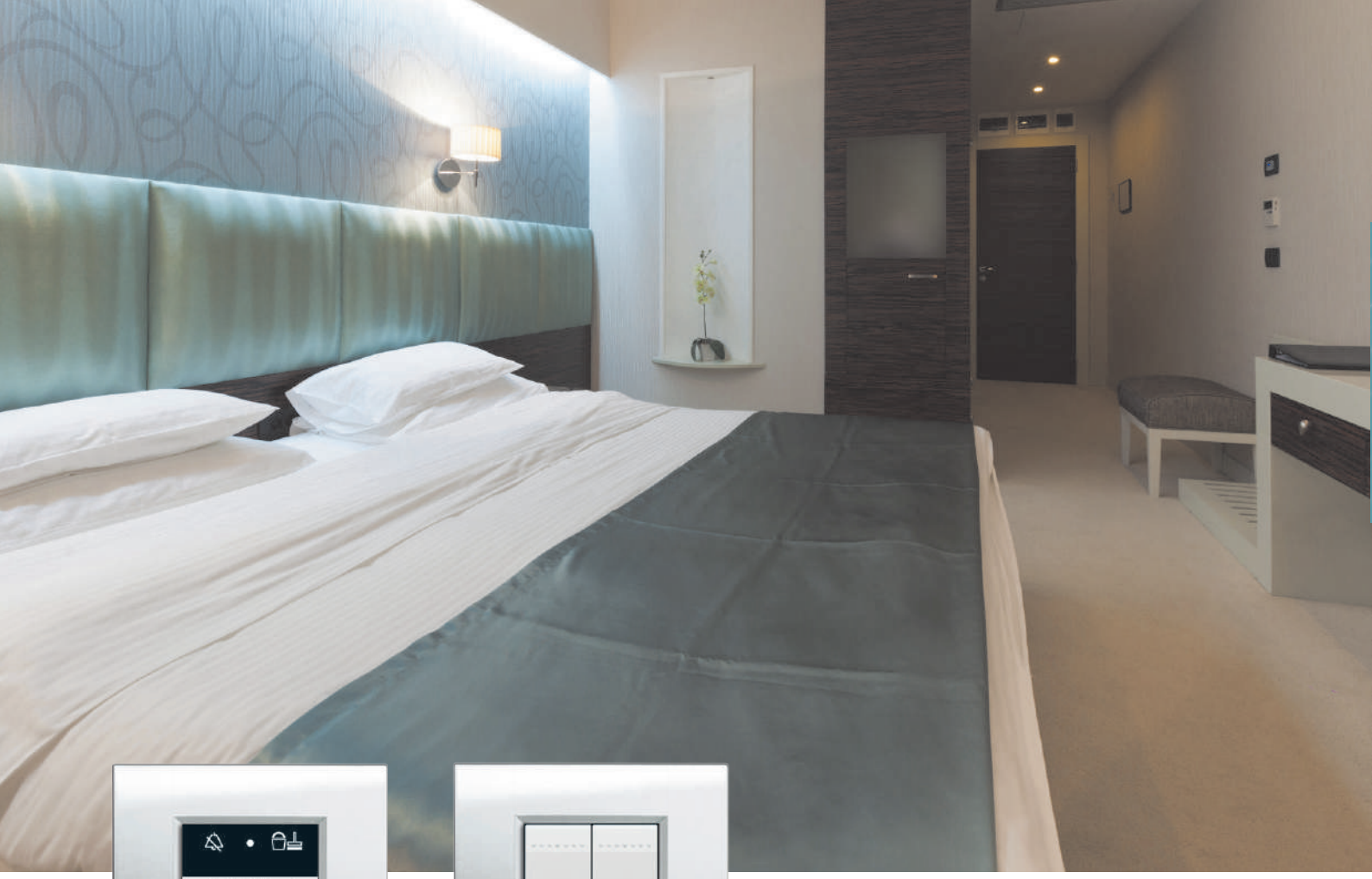
THE SOFTWARE PROVIDES:

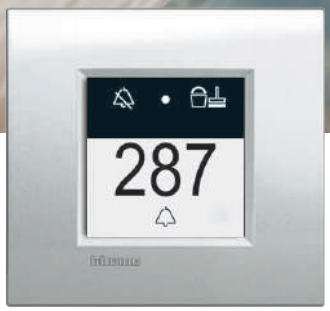
- Supervision and management of functions installed in the hotel
- Control and management of the functions inside the rooms and the common areas
- Management of the room status (free, occupied, customer present, etc.)
- Access control management: programming of key cards and saving of accesses
- Management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

IN THE REST OF THE BUILDING



- 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)

DIGITAL THERMOSTAT

UP TO 30% SAVINGS

8-KEY CONTROL

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

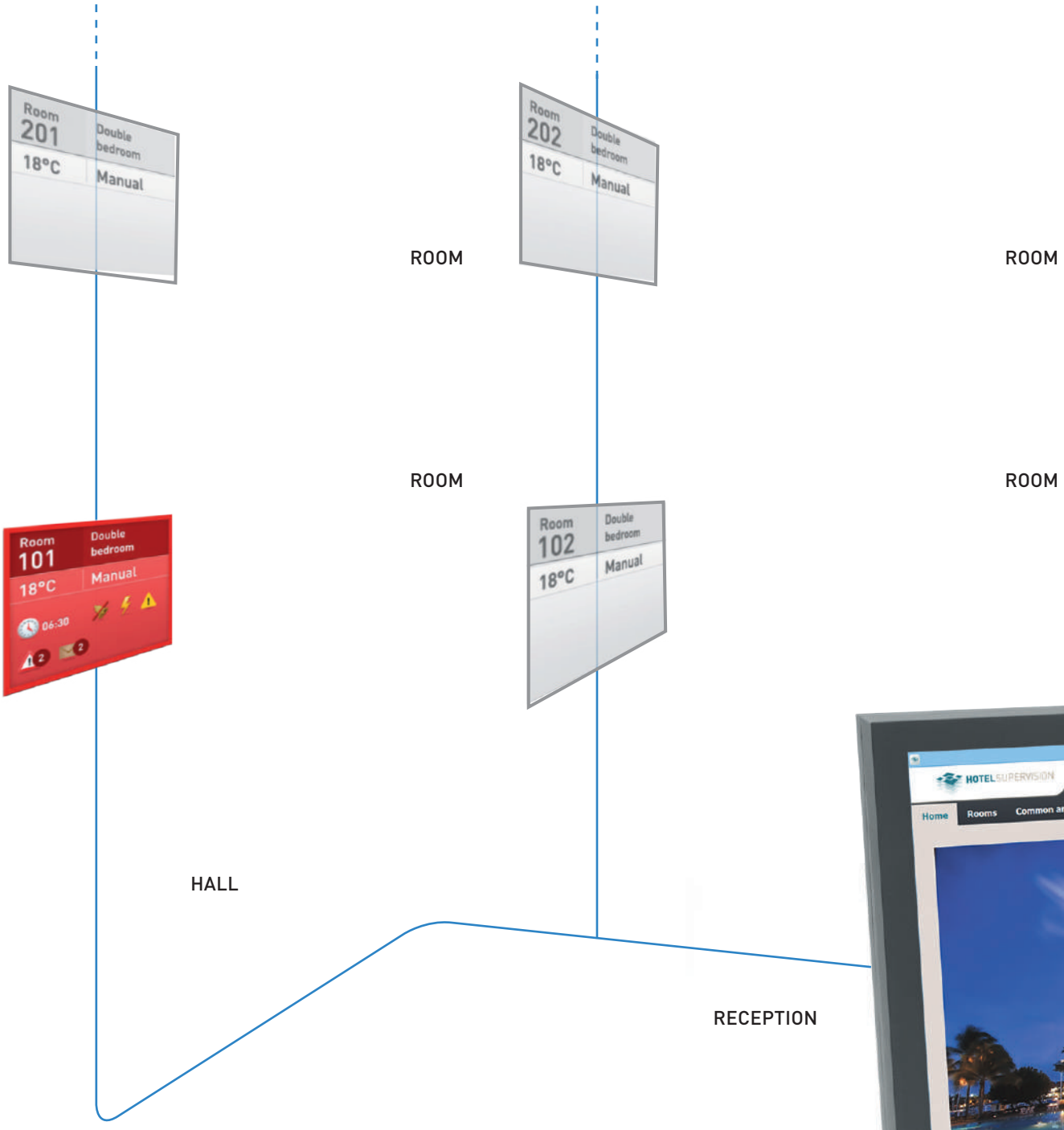
STEP MARKER LAMPS

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

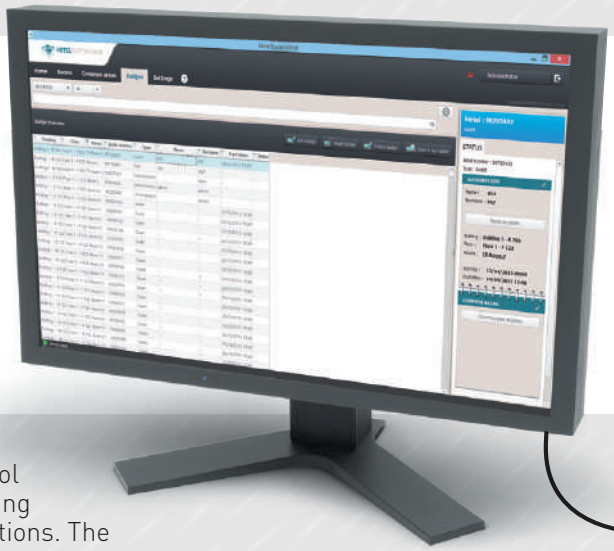
IP SCENARIO MODULE

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

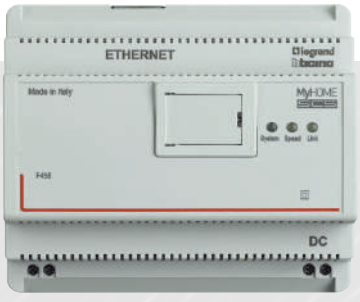
Using one or more PC, it is possible to control the status of the rooms with the corresponding notifications, and manage the available functions. The software also perform functions connected with the programming of the key cards.

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 **Air**

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 Air and Livinglight

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

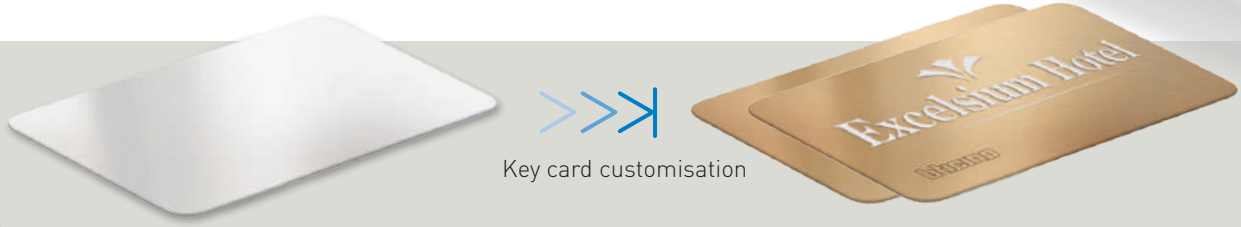
CUSTOMISATION OF COVER PLATES, KEY CARDS AND GLASS CONTROLS

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.

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

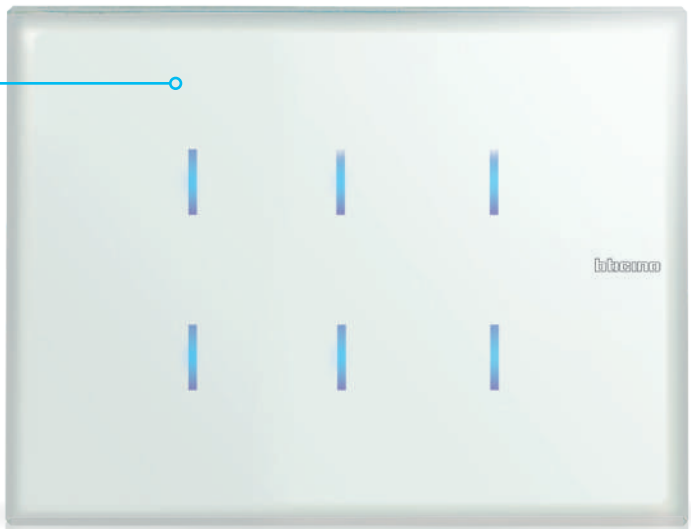
White key card switch with **Livinglight Air** cover plate.

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

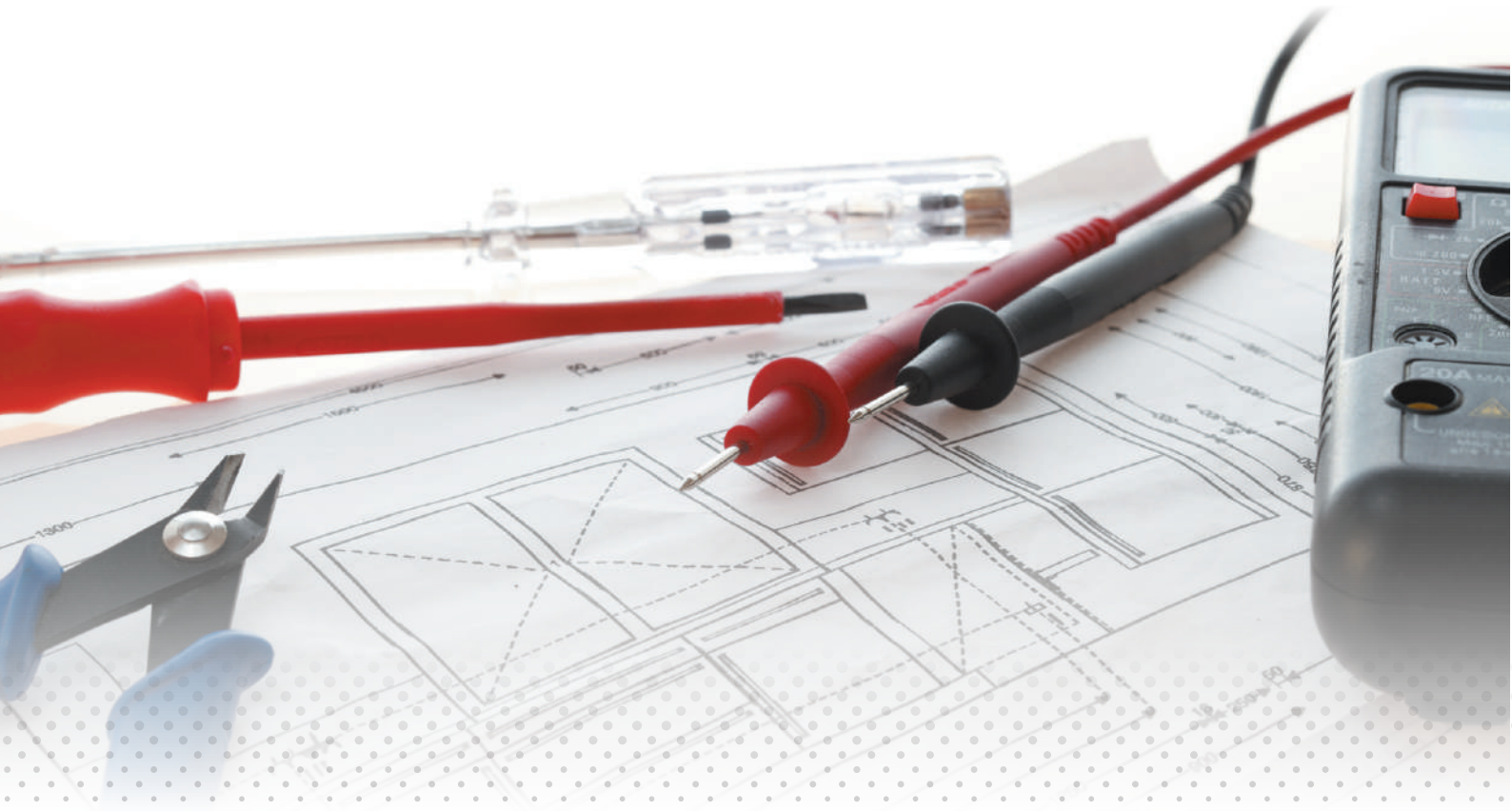


Key card customisation

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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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:

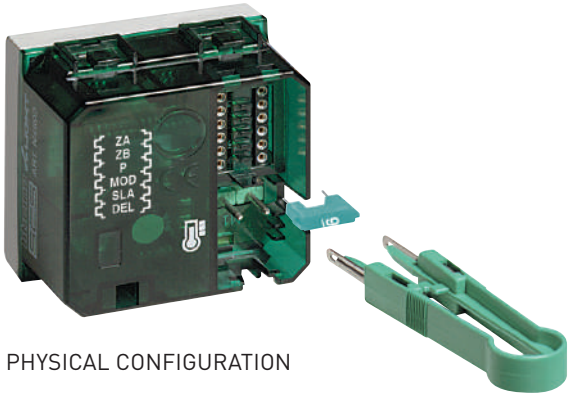
- The IP Server F458 devices and the MH201 IP scenario module must be configured using the MyHOME_Suite software, which can be downloaded free of charge from the website:
  www.homesystems-legrandgroup.com.
- While all the other devices in SCS-BUS technology can be configured in two different modes:

- 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

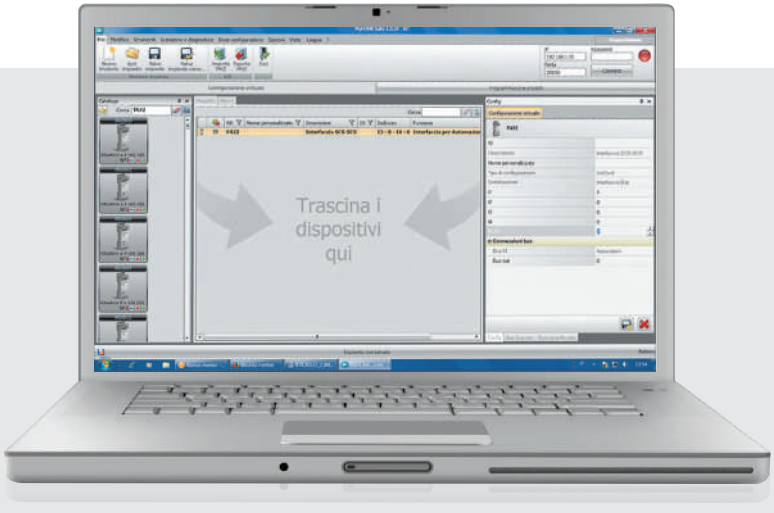
This is performed using a PC with the appropriate MyHOME_Suite application installed. This solution has the advantage of offering many more options when compared with the physical configuration.



PHYSICAL CONFIGURATION

The software can be downloaded free of charge from the website:
www.homesystems-legrandgroup.com

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

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

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

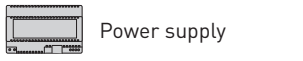
The Automation system belongs to the SELV (Safety Extra Low Voltage) class, as it is powered with ⧈ double safety insulation independent devices not connected to the ground, and has a maximum operating voltage of 27 Vdc, in accordance with CEI EN 60065; it therefore can be compared to a SELV source as 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.

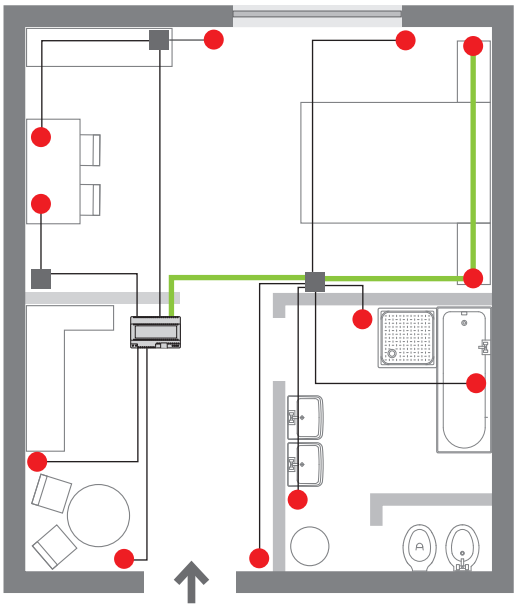
Maximum distances of the BUS cable and absorptions

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.

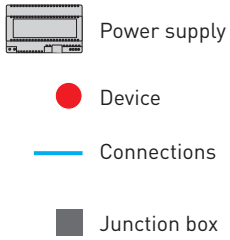
During sizing comply with the following rules:

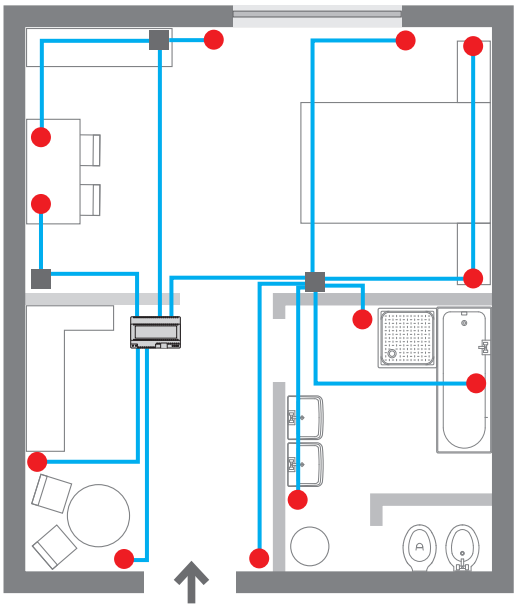
1 THE CONNECTION LENGTH BETWEEN THE POWER SUPPLY AND THE FURTHEST DEVICE MUST NOT EXCEED 250 m.



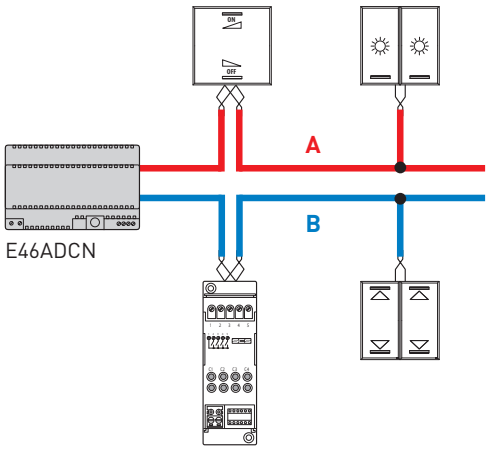


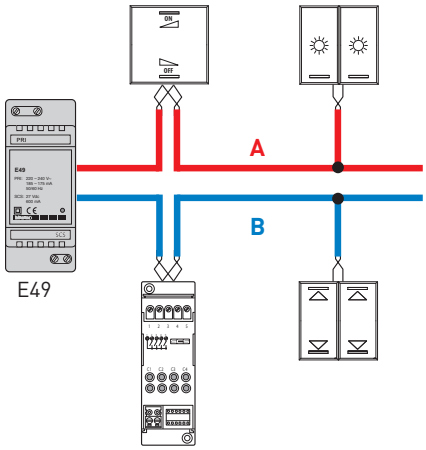
2 THE TOTAL LENGTH OF THE CONNECTIONS MUST NOT EXCEED 500 m (CABLE EXTENDED).





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.

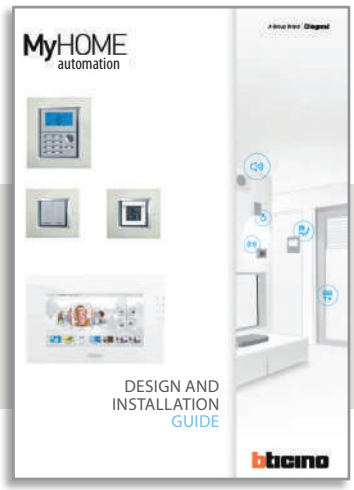
With power supply E49:

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/



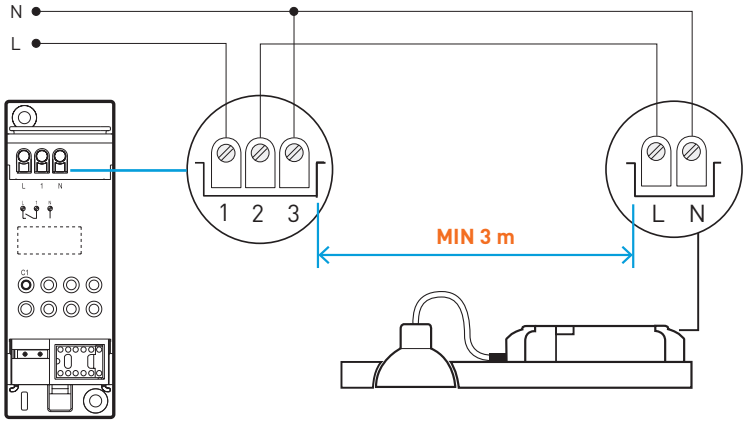
Consult the MyHOME specific catalogue (QR code)

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 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.

EXAMPLE OF CONNECTION WITH ITEM F411U1

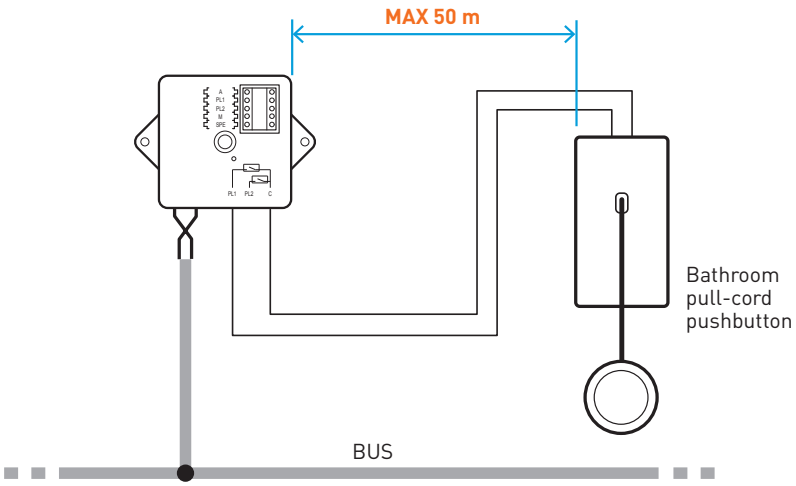


WARNING: Refer to the technical data listed in the technical sheets for each actuator.

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.

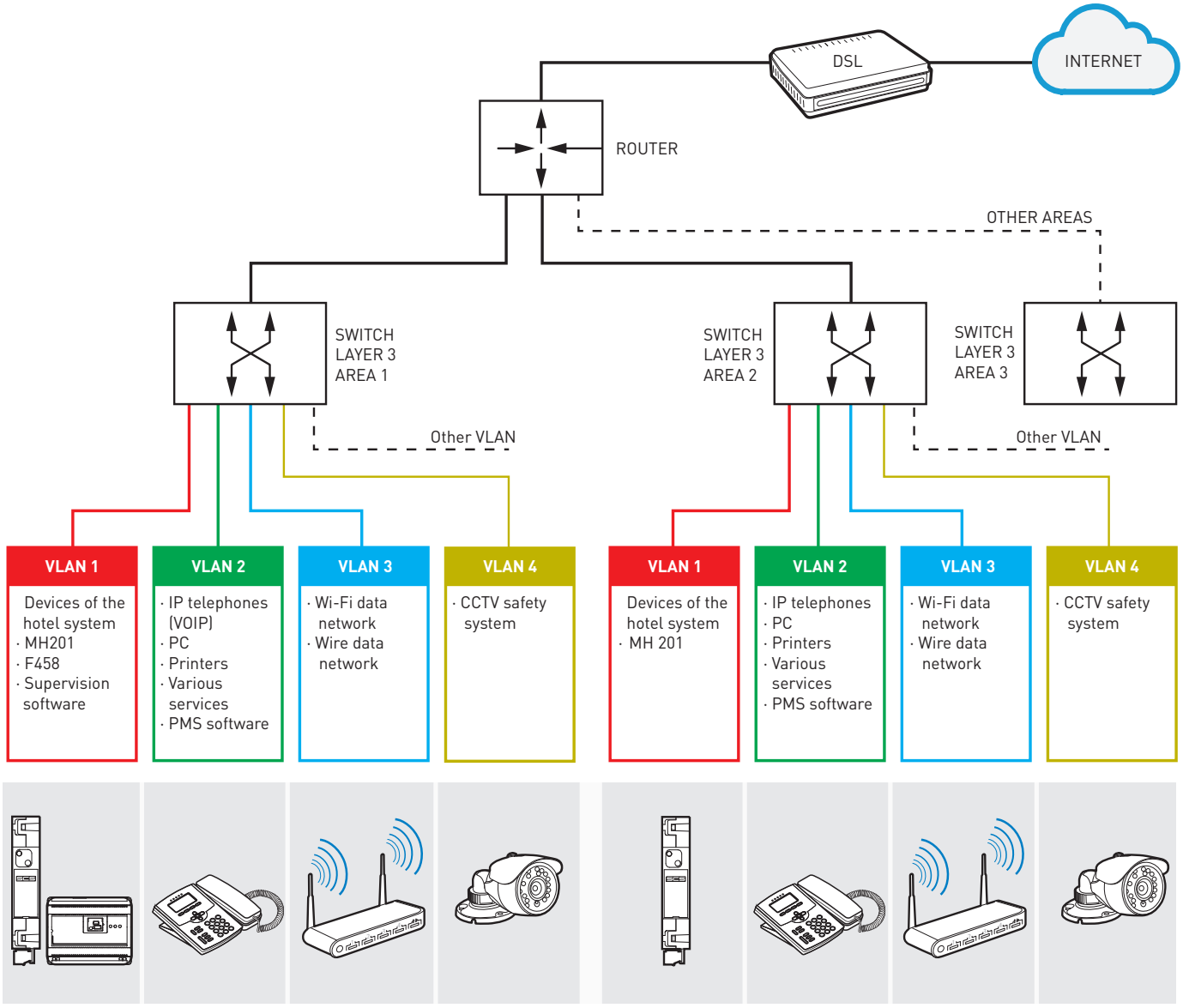
MAXIMUM DISTANCES FOR THE CONNECTION OF THE CONTACT INTERFACE



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

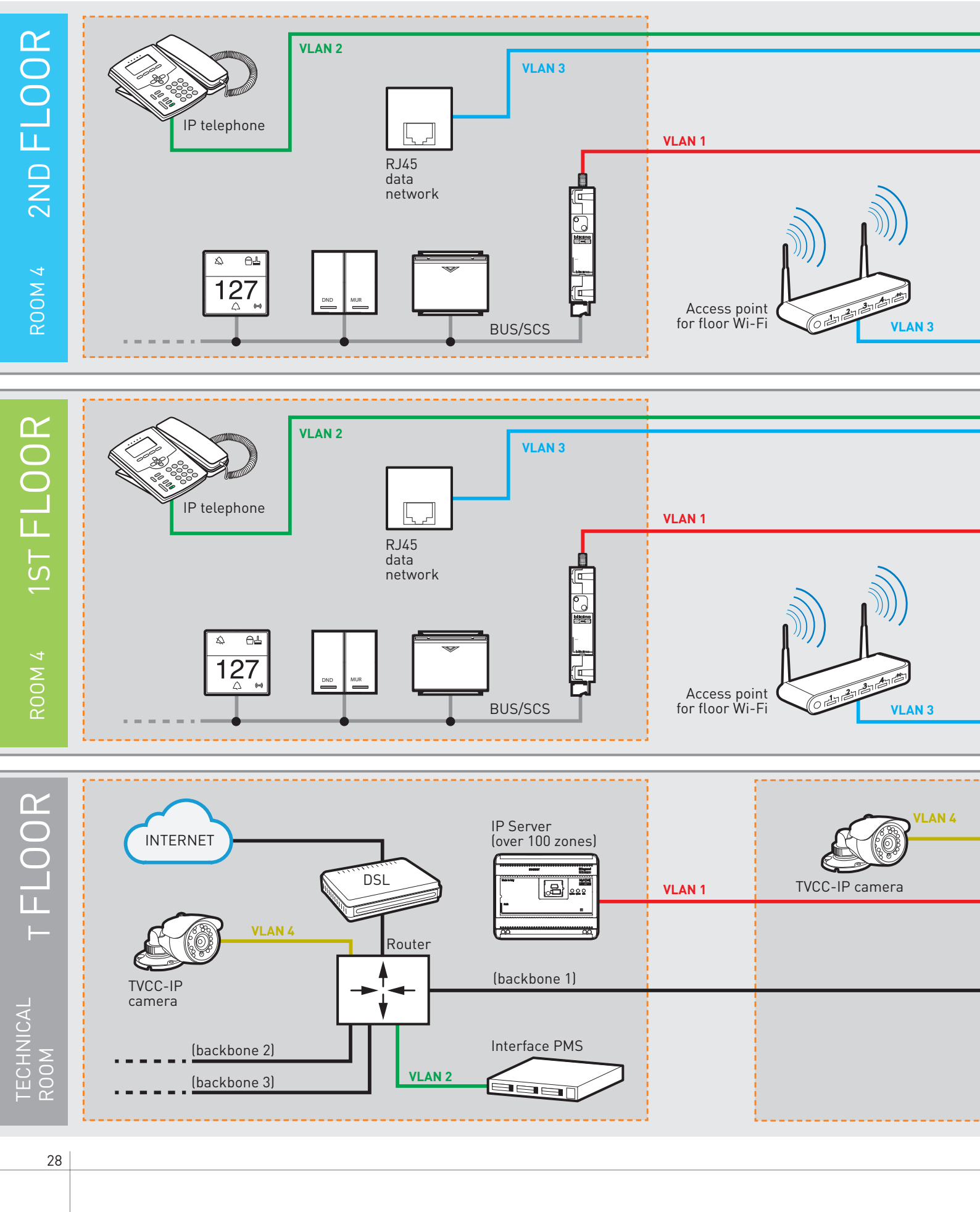
VLAN 1 = virtual network dedicated to the Bticino/Legrand hotel devices

VLAN 2 = virtual network dedicated to the IP telephony (VOIP) and various services (printers, etc...)

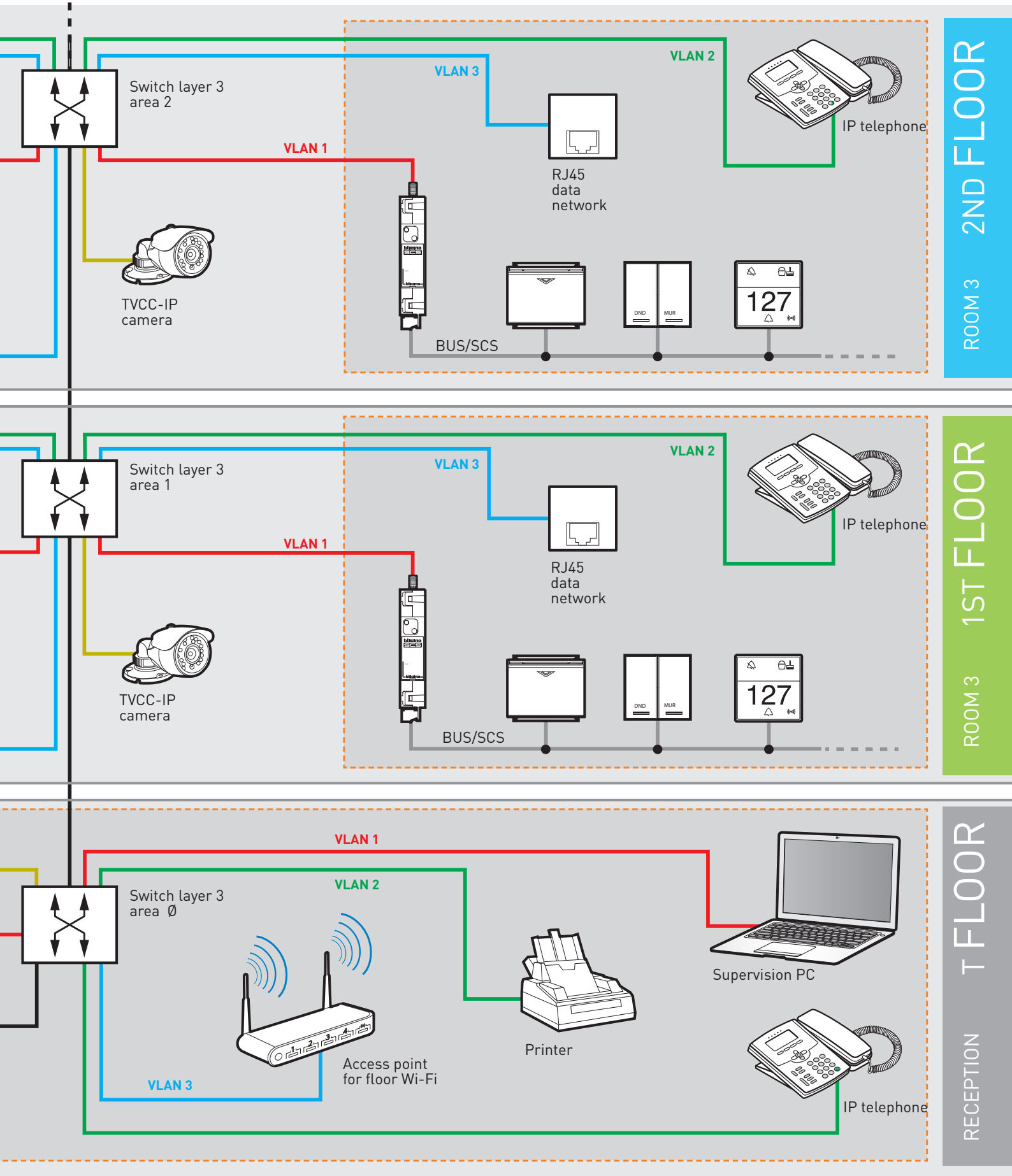
VLAN 3 = virtual network dedicated to the distribution of the WiFi and wired "Internet" signal

VLAN 4 = virtual network dedicated to safety (CCTV, etc...)

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



OTHER FLOORS

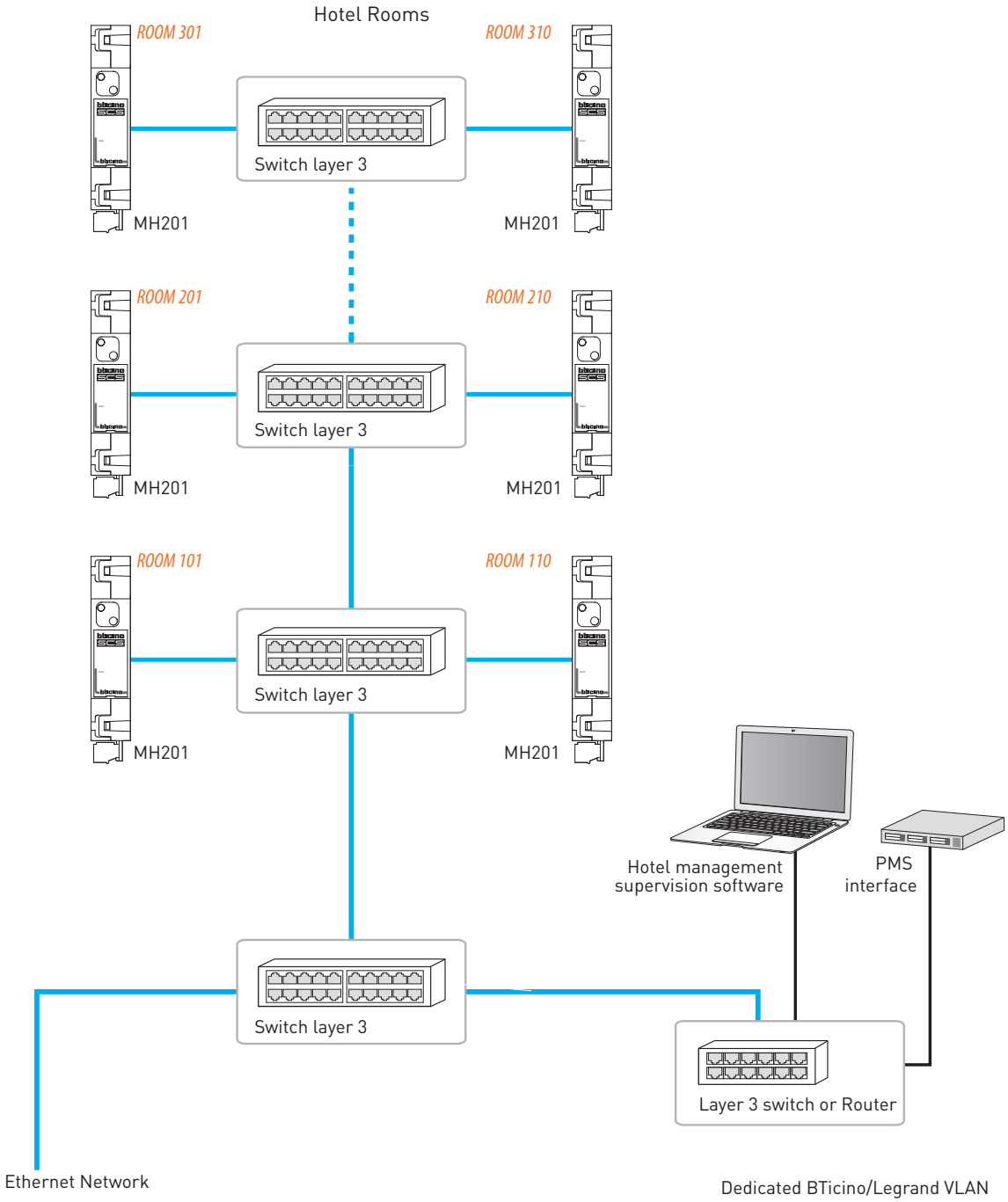


RULES ON THE ETHERNET NETWORK INFRASTRUCTURE

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

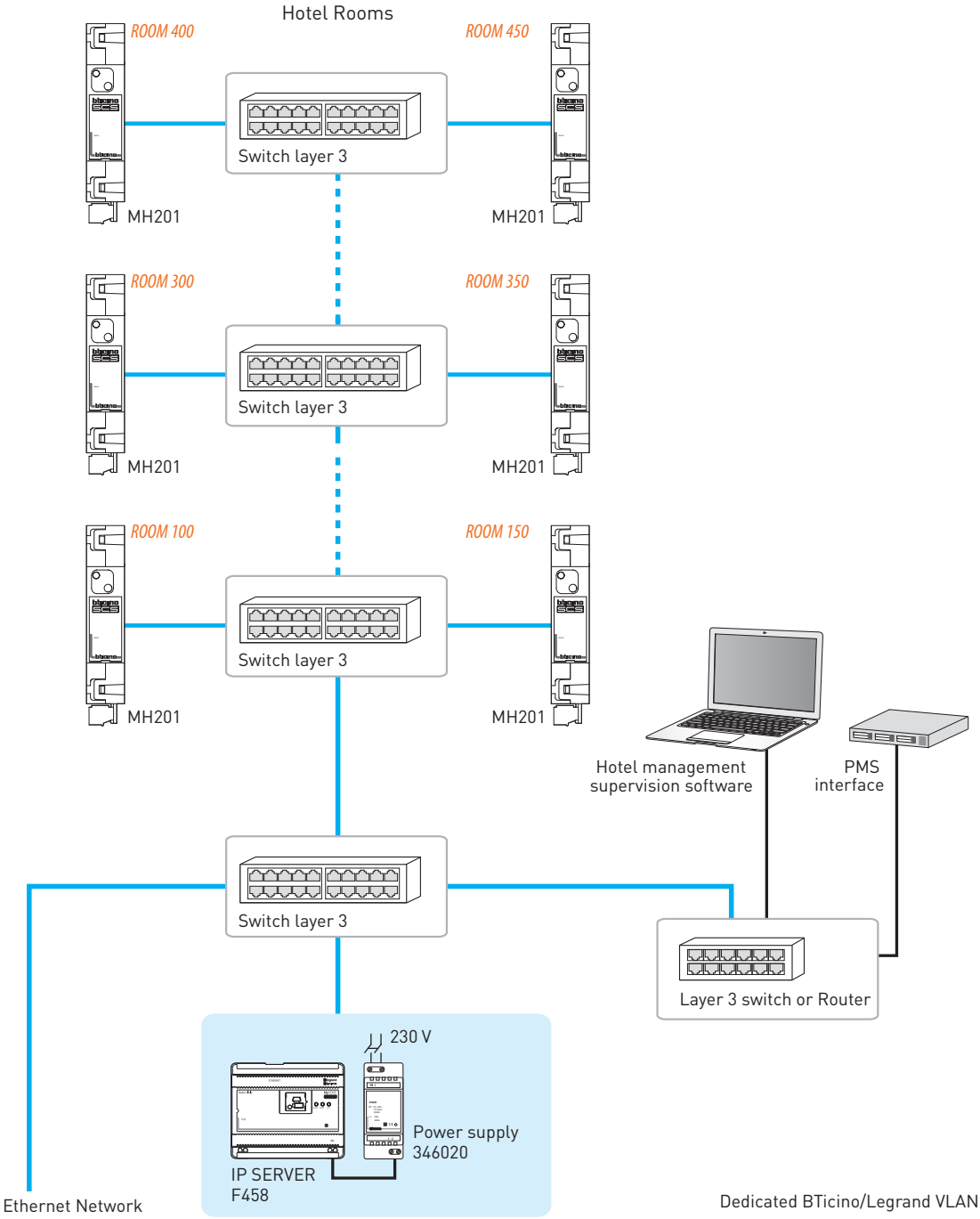


NOTES FOR THE NETWORK ADMINISTRATORS:

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



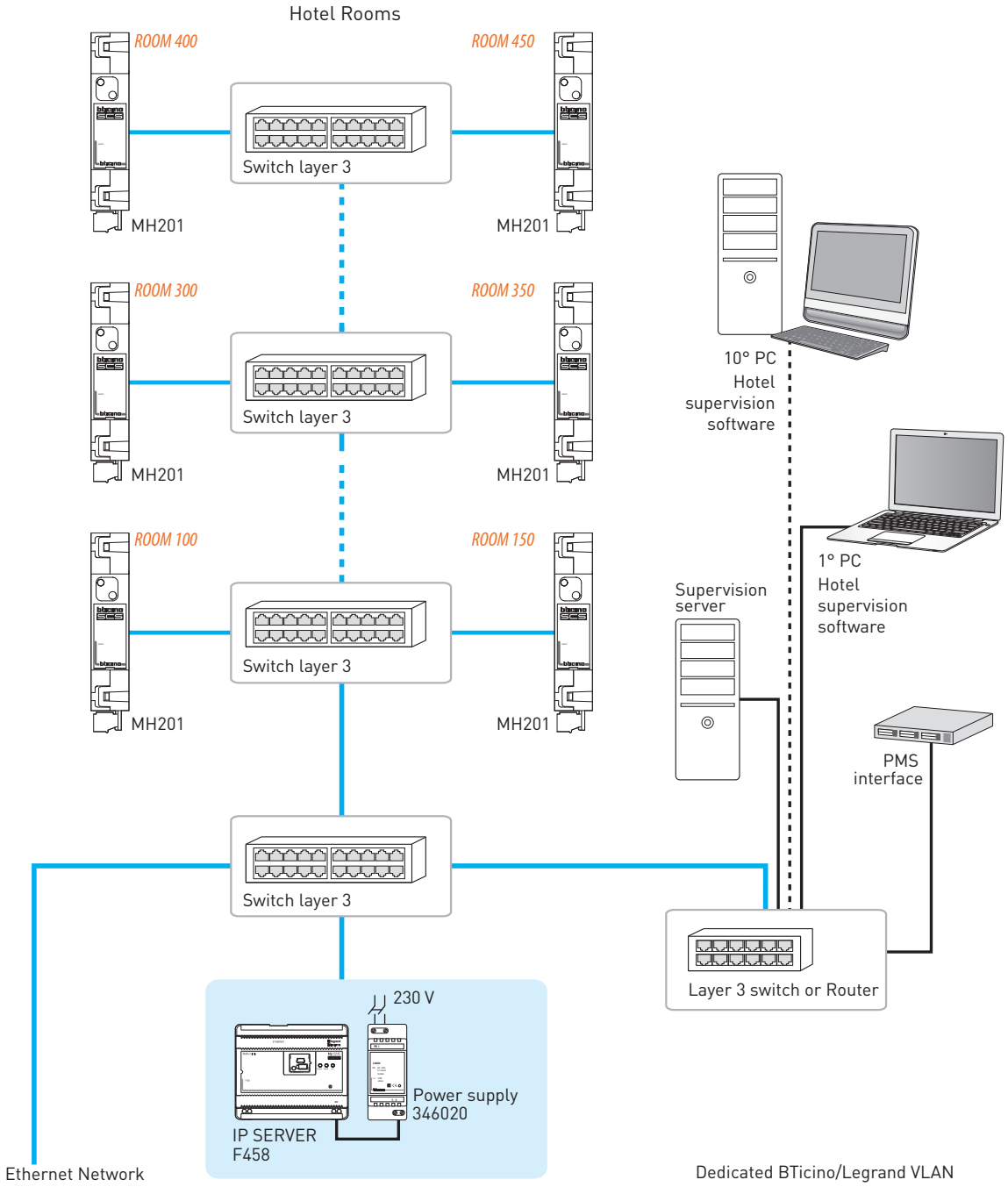
NOTES FOR THE NETWORK ADMINISTRATORS:

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 controlo
- 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

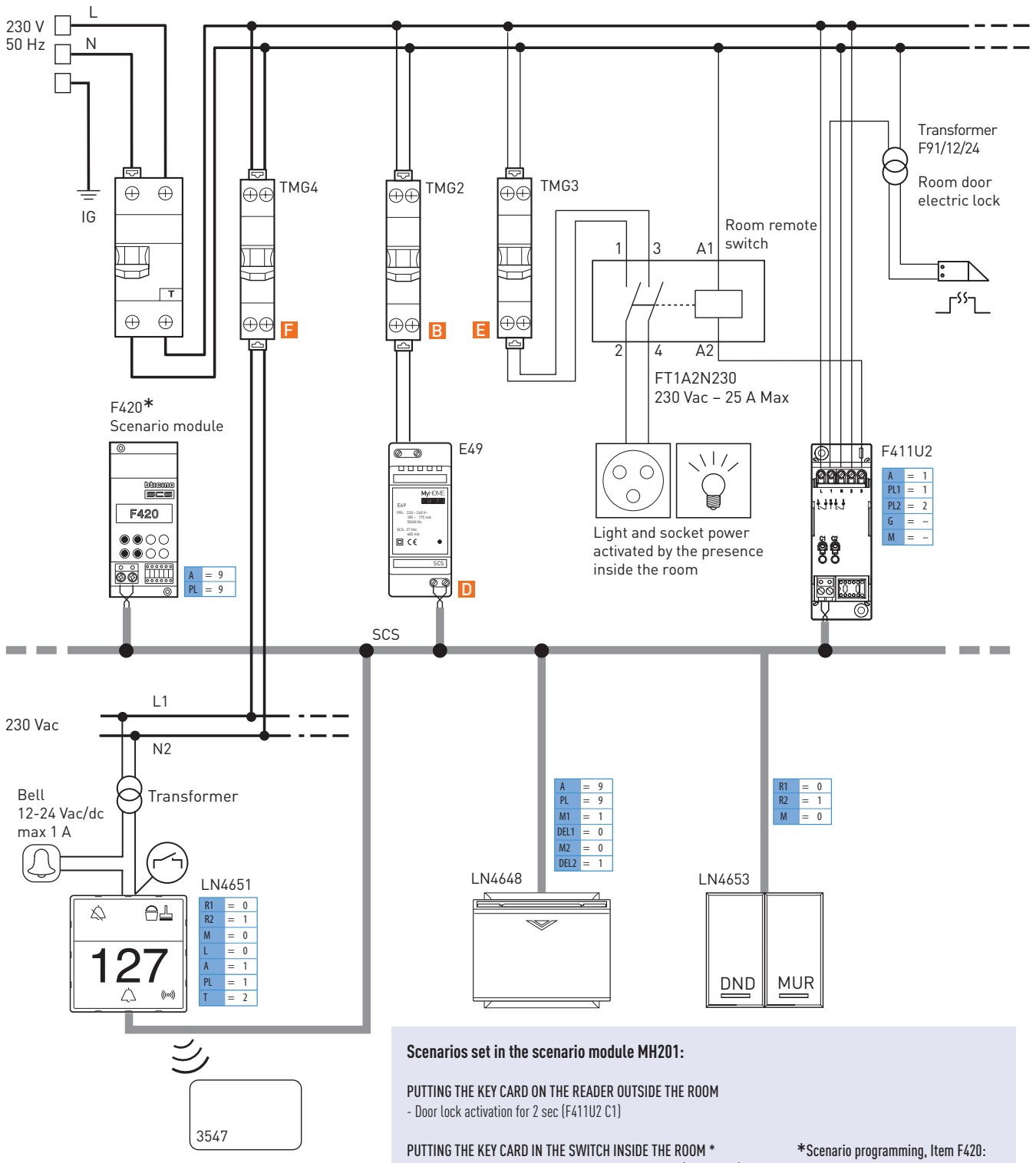
IMPORTANT NOTES	
A	The general switch GS (TM+EL) must be selected based on the absorption of the services installed.
B	The TM switch must be selected based on the power supply used.
C E F	The TM switch must be selected based on the loads connected.
D	If the current supplied by the E49 is not sufficient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

TYPICAL DIAGRAM OF A BASIC ROOM - STAND ALONE SOLUTION

DIAGRAM 1



Scenarios set in the scenario module MH201:

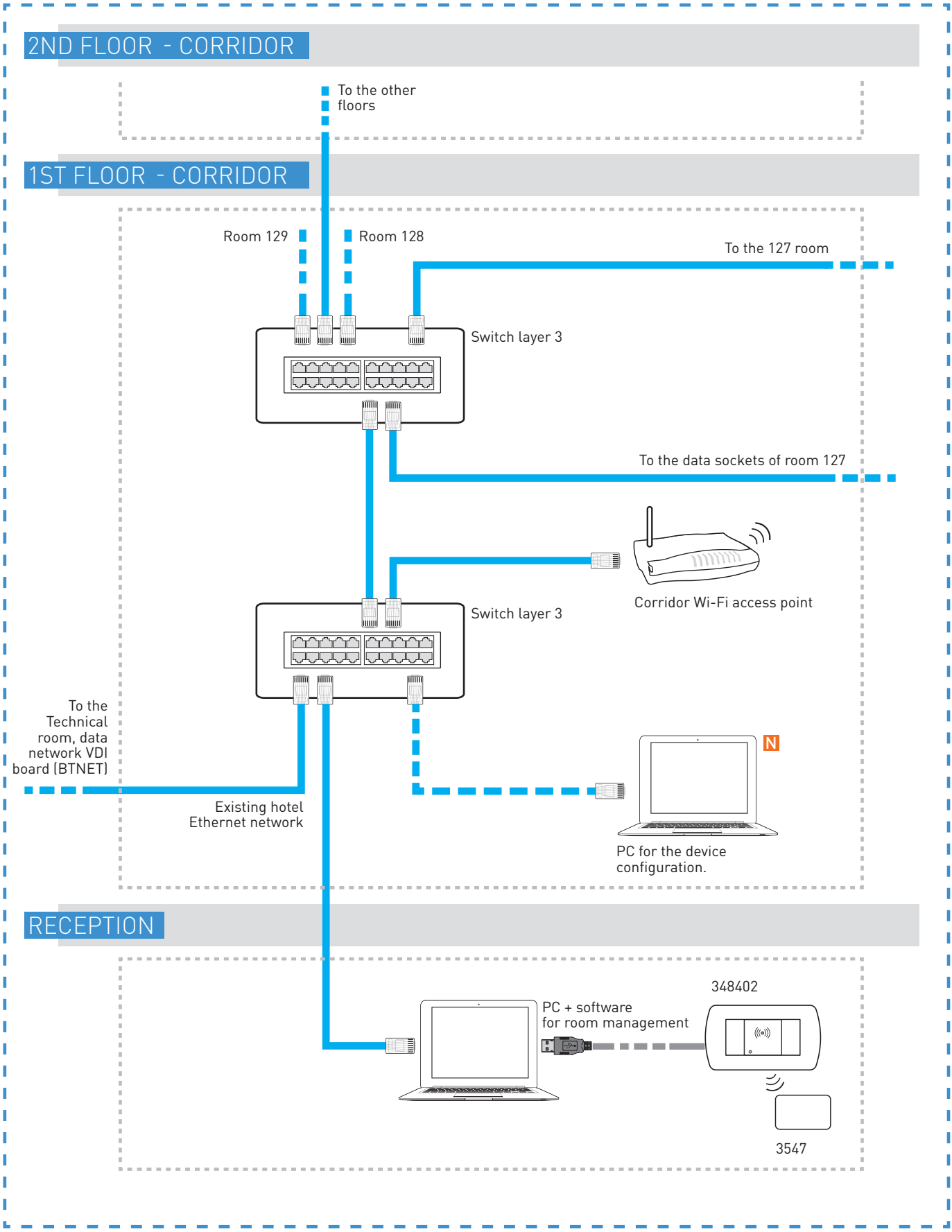
PUTTING THE KEY CARD ON THE READER OUTSIDE THE ROOM
- Door lock activation for 2 sec (F411U2 C1)

PUTTING THE KEY CARD IN THE SWITCH INSIDE THE ROOM *
- Activation of the room light and socket remote switch (F411U2 C2)

TAKING THE KEY CARD OUT OF THE SWITCH INSIDE THE ROOM *
- Deactivation of the room light and socket remote switch after 60 sec (F411U2 C2)

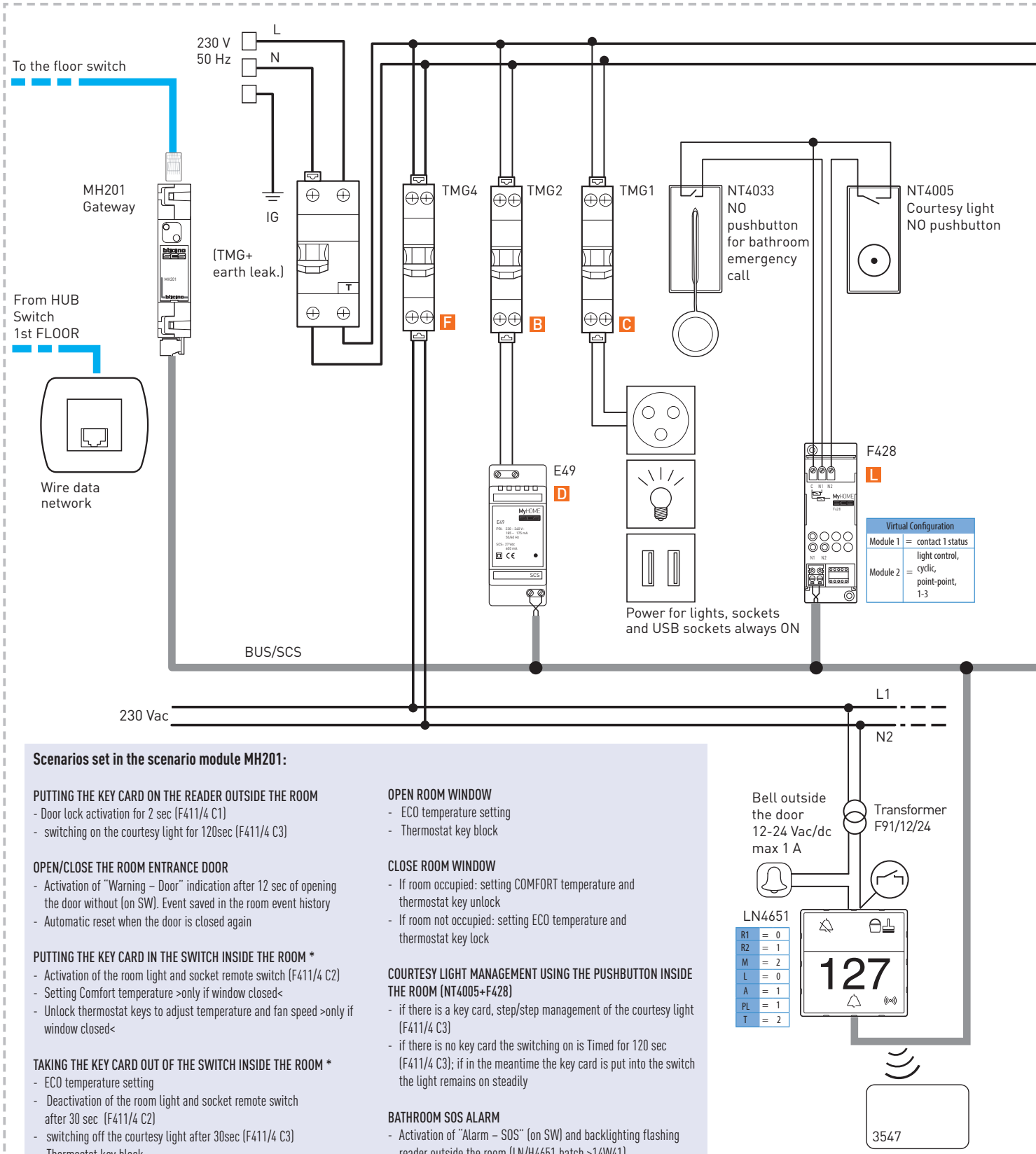
*Scenario programming, Item F420:
SCENARIO 1 ON 1-2
SCENARIO 9 OFF 1-2

TYPICAL DIAGRAM OF THE ETHERNET INFRASTRUCTURE IN A HOTEL



TYPICAL ROOM DIAGRAM - CENTRALISED SOLUTION WITH TRADITIONAL ELECTRIC SYSTEM

DIAGRAM 2



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<

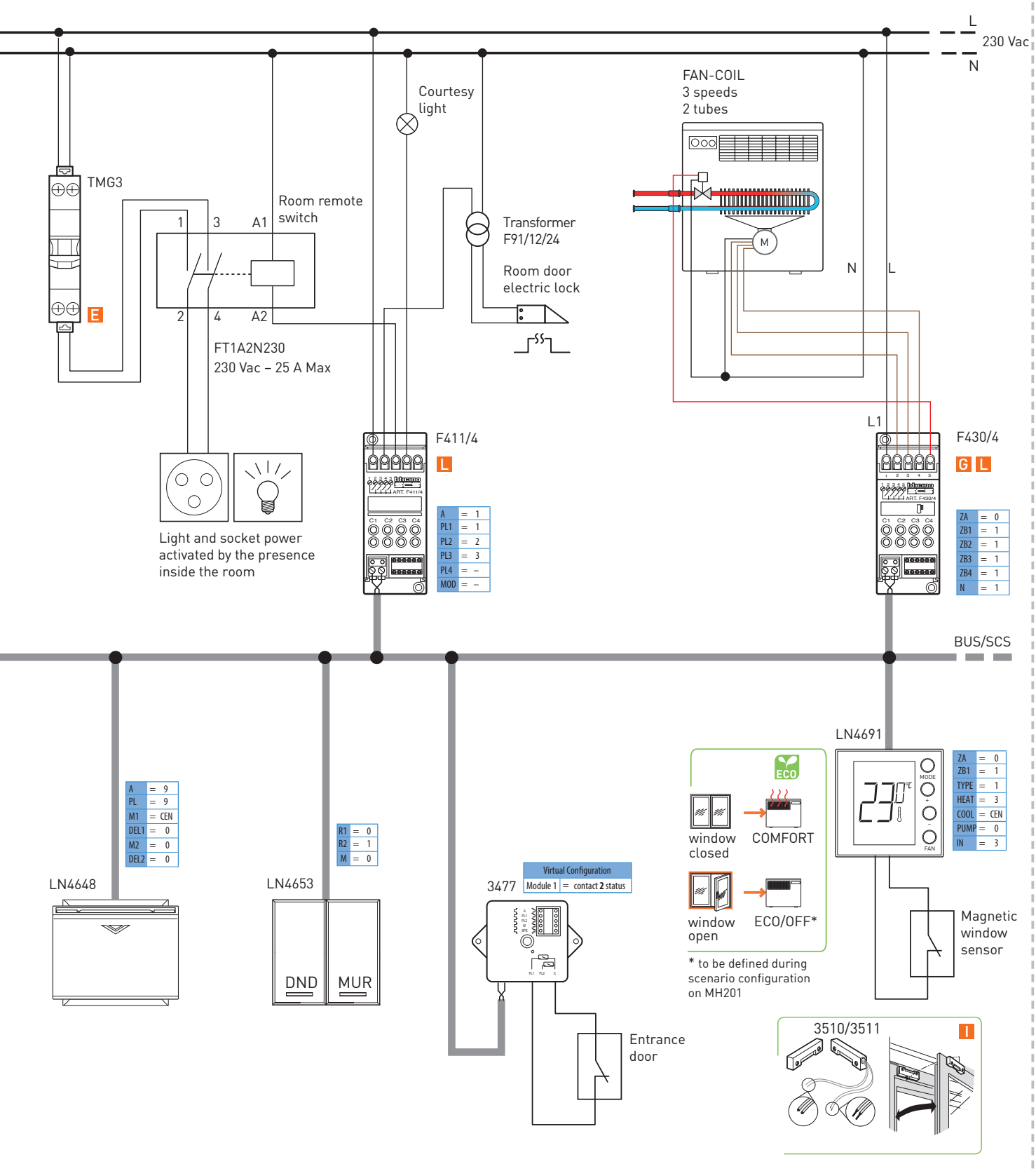
TAKING THE KEY CARD OUT OF THE SWITCH INSIDE THE ROOM *
- ECO temperature setting
- Deactivation of the room light and socket remote switch after 30 sec (F411/4 C2)
- switching off the courtesy light after 30sec (F411/4 C3)
- Thermostat key block

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

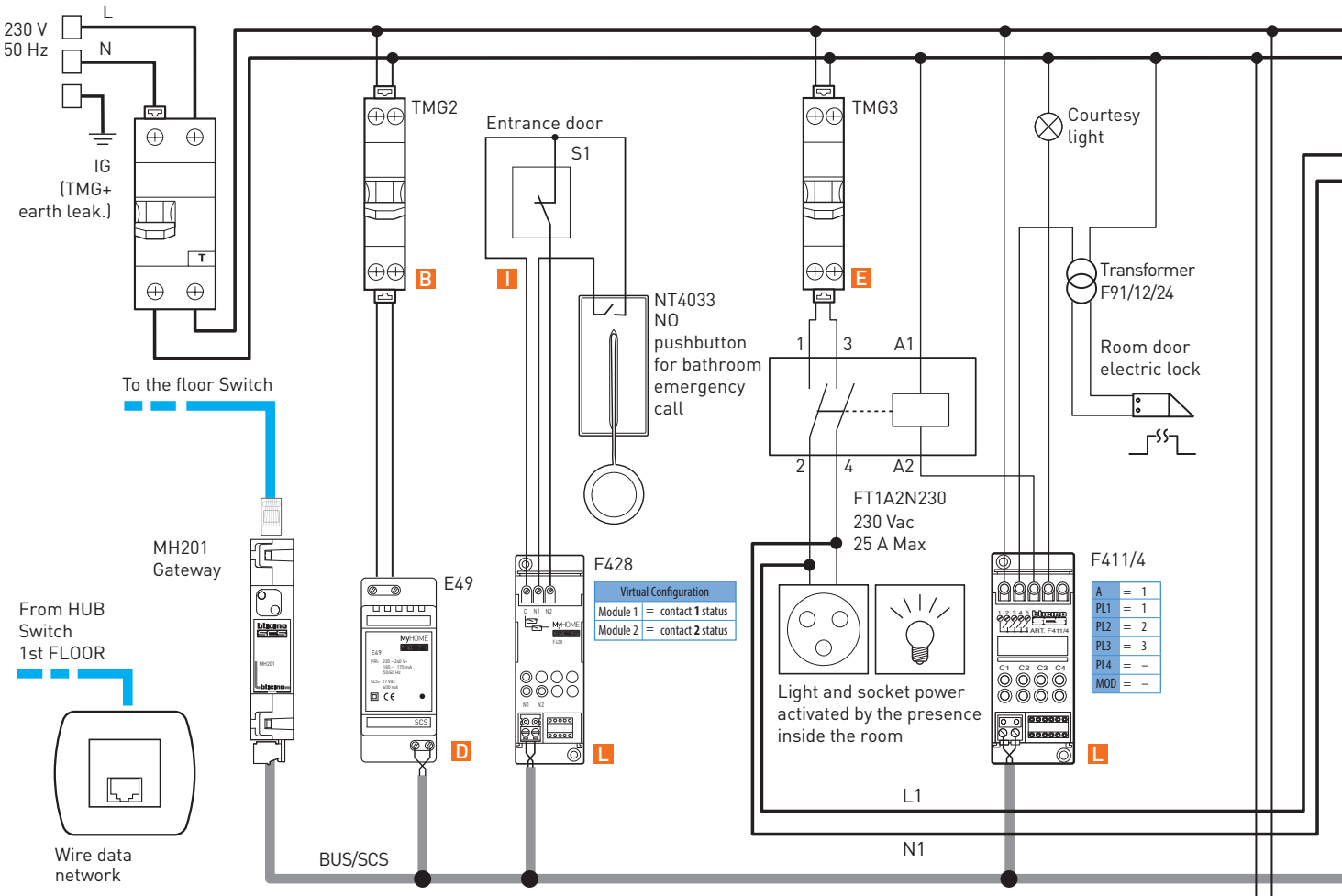
COURTESY LIGHT MANAGEMENT USING THE PUSHBUTTON INSIDE THE ROOM (NT4005+F428)
- if there is a key card, step/step management of the courtesy light (F411/4 C3)
- if there is no key card the switching on is Timed for 120 sec (F411/4 C3); if in the meantime the key card is put into the switch the light remains 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.


L
230 Vac
N
Courtesy light
FAN-COIL
3 speeds
2 tubes
TMG3
E
Room remote switch
1
3
A1
2
4
A2
FT1A2N230
230 Vac – 25 A Max
Transformer
F91/12/24
Room door electric lock
N
L
L1
F411/4
L
A = 1
PL1 = 1
PL2 = 2
PL3 = 3
PL4 = –
MOD = –
F430/4
G L
ZA = 0
ZB1 = 1
ZB2 = 1
ZB3 = 1
ZB4 = 1
N = 1
Light and socket power activated by the presence inside the room
BUS/SCS
LN4691
A = 9
PL = 9
M1 = CEN
DEL1 = 0
M2 = 0
DEL2 = 0
LN4648
R1 = 0
R2 = 1
M = 0
LN4653
DND
MUR
3477
Virtual Configuration
Module 1 = contact 2 status
ECO
window closed
COMFORT
window open
ECO/OFF*
* to be defined during scenario configuration on MH201
ZA = 0
ZB1 = 1
TYPE = 1
HEAT = 3
COOL = CEN
PUMP = 0
IN = 3
Magnetic window sensor
Entrance door
3510/3511
I

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<

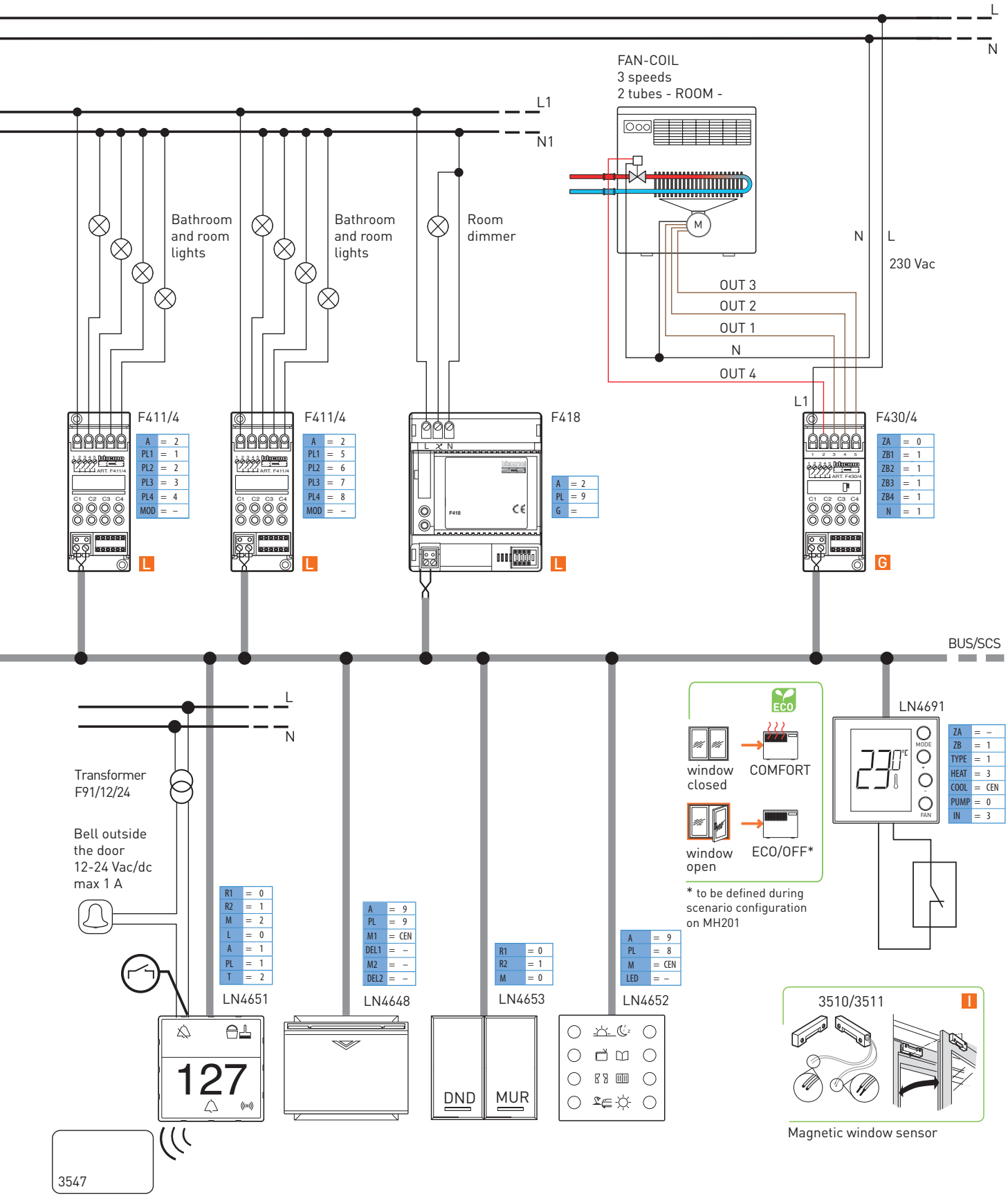
TAKING THE KEY CARD OUT OF THE SWITCH INSIDE THE ROOM *
- ECO temperature setting
- Switching off all the room lights after 20 sec of deactivation of the room light and socket remote switch after 30 sec (F411/4 C2)
- Thermostat key block

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.


L
N
FAN-COIL
3 speeds
2 tubes - ROOM -
L1
N1
Bathroom and room lights
Bathroom and room lights
Room dimmer
M
N
L
230 Vac
OUT 3
OUT 2
OUT 1
N
OUT 4
L1
F411/4
A = 2
PL1 = 1
PL2 = 2
PL3 = 3
PL4 = 4
MOD = –
L
F411/4
A = 2
PL1 = 5
PL2 = 6
PL3 = 7
PL4 = 8
MOD = –
L
F418
A = 2
PL = 9
G =
L
F430/4
ZA = 0
ZB1 = 1
ZB2 = 1
ZB3 = 1
ZB4 = 1
N = 1
G
BUS/SCS
L
N
Transformer
F91/12/24
Bell outside the door
12-24 Vac/dc
max 1 A
R1 = 0
R2 = 1
M = 2
L = 0
A = 1
PL = 1
T = 2
LN4651
A = 9
PL = 9
M1 = CEN
DEL1 = –
M2 = –
DEL2 = –
LN4648
R1 = 0
R2 = 1
M = 0
LN4653
A = 9
PL = 8
M = CEN
LED = –
LN4652
127
DND
MUR
3547
ECO
window closed
COMFORT
window open
ECO/OFF*
* to be defined during scenario configuration on MH201
LN4691
ZA = –
ZB = 1
TYPE = 1
HEAT = 3
COOL = CEN
PUMP = 0
IN = 3
MODE
FAN
3510/3511
I
Magnetic window sensor

VARIATIONS OF ROOM DIAGRAMS

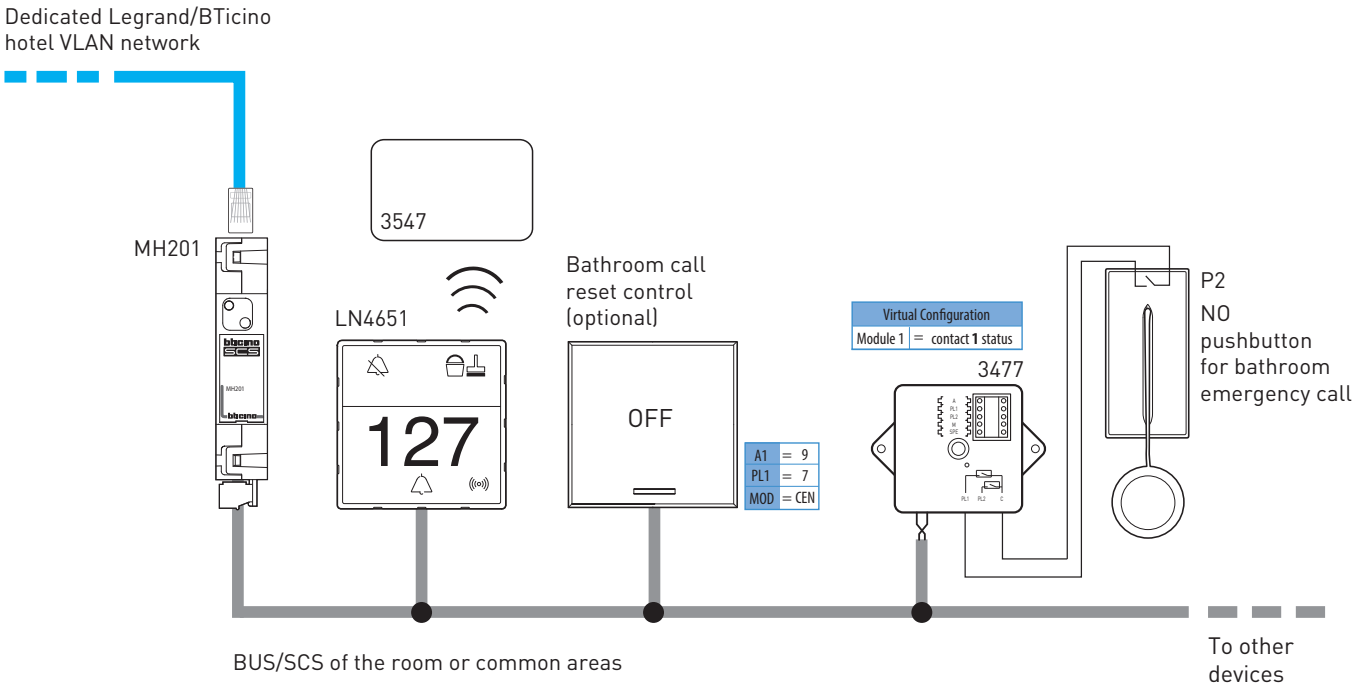
Some diagrams which can be used to make and manage the emergency calls of the room bathrooms or the common areas are supplied below.

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).

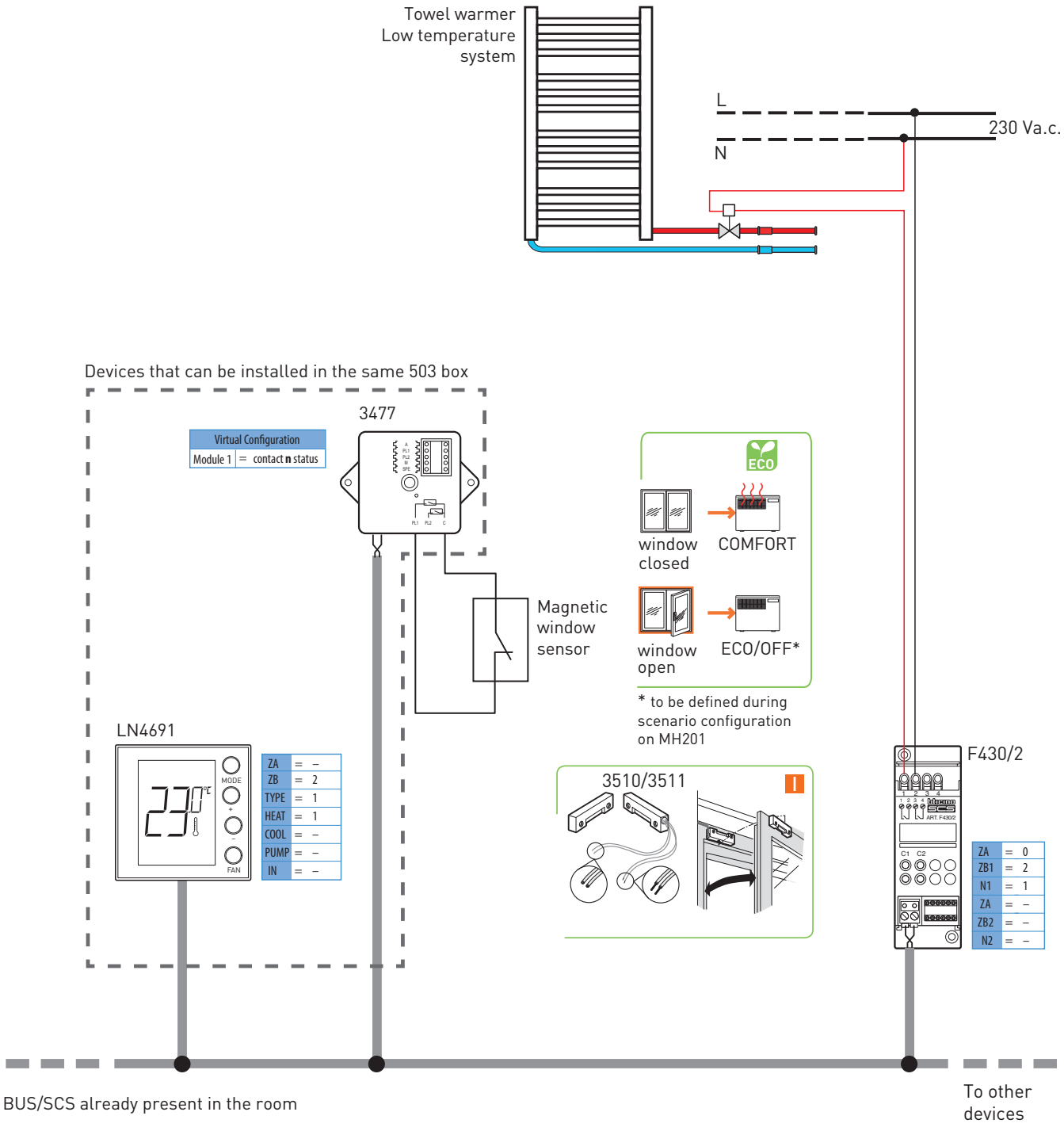
A traditional pushbutton linked to the contact interface can be installed instead of the home automation control.



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 LN/H4691 thermostat with "ECO function" with window contact connected directly to it.

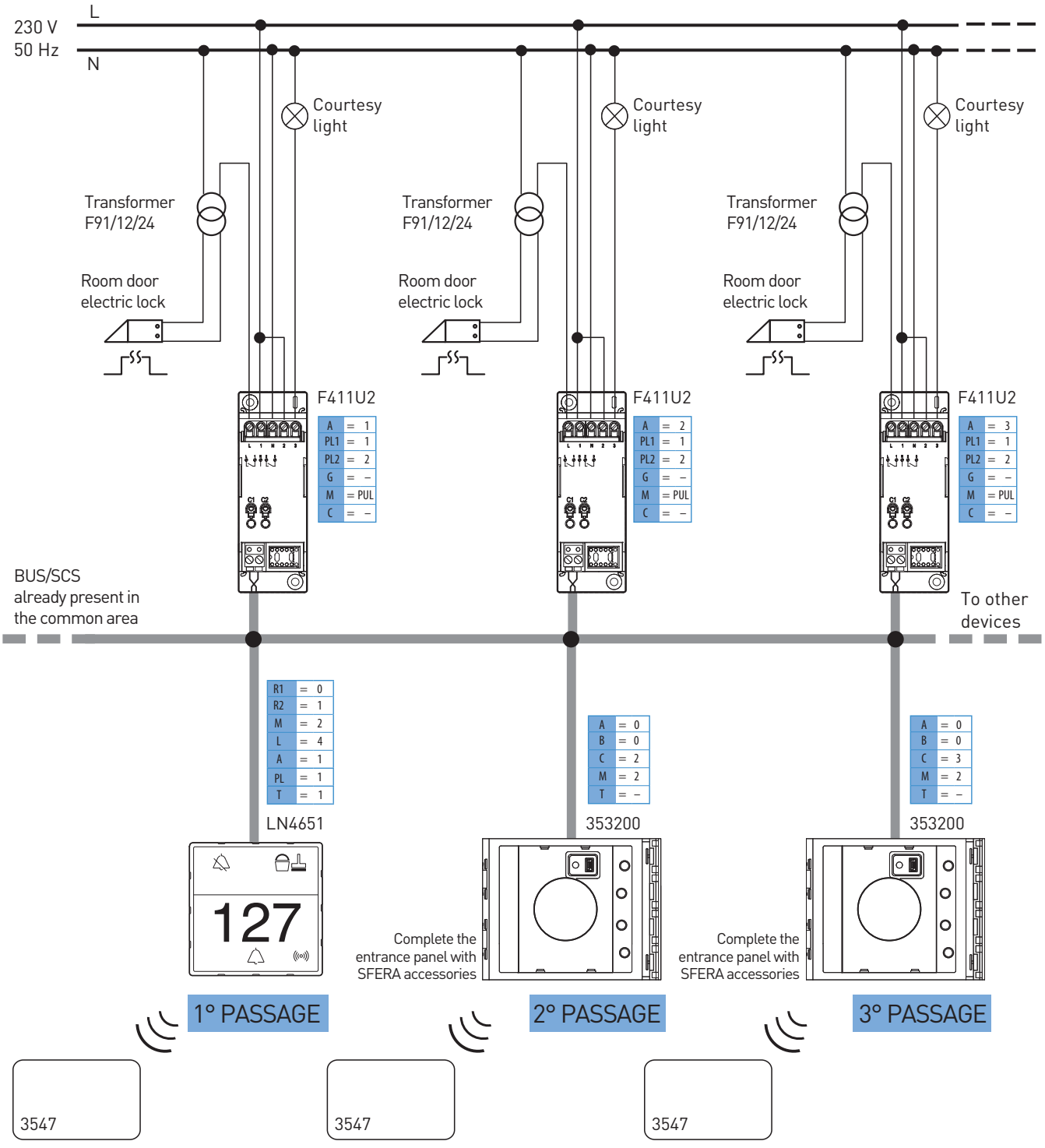
In the same zone there are other thermostats with the management of the "ECO function". Their contacts must be managed using the 3477 contact interface, as in the following diagram.



VARIATIONS OF ROOM DIAGRAMS

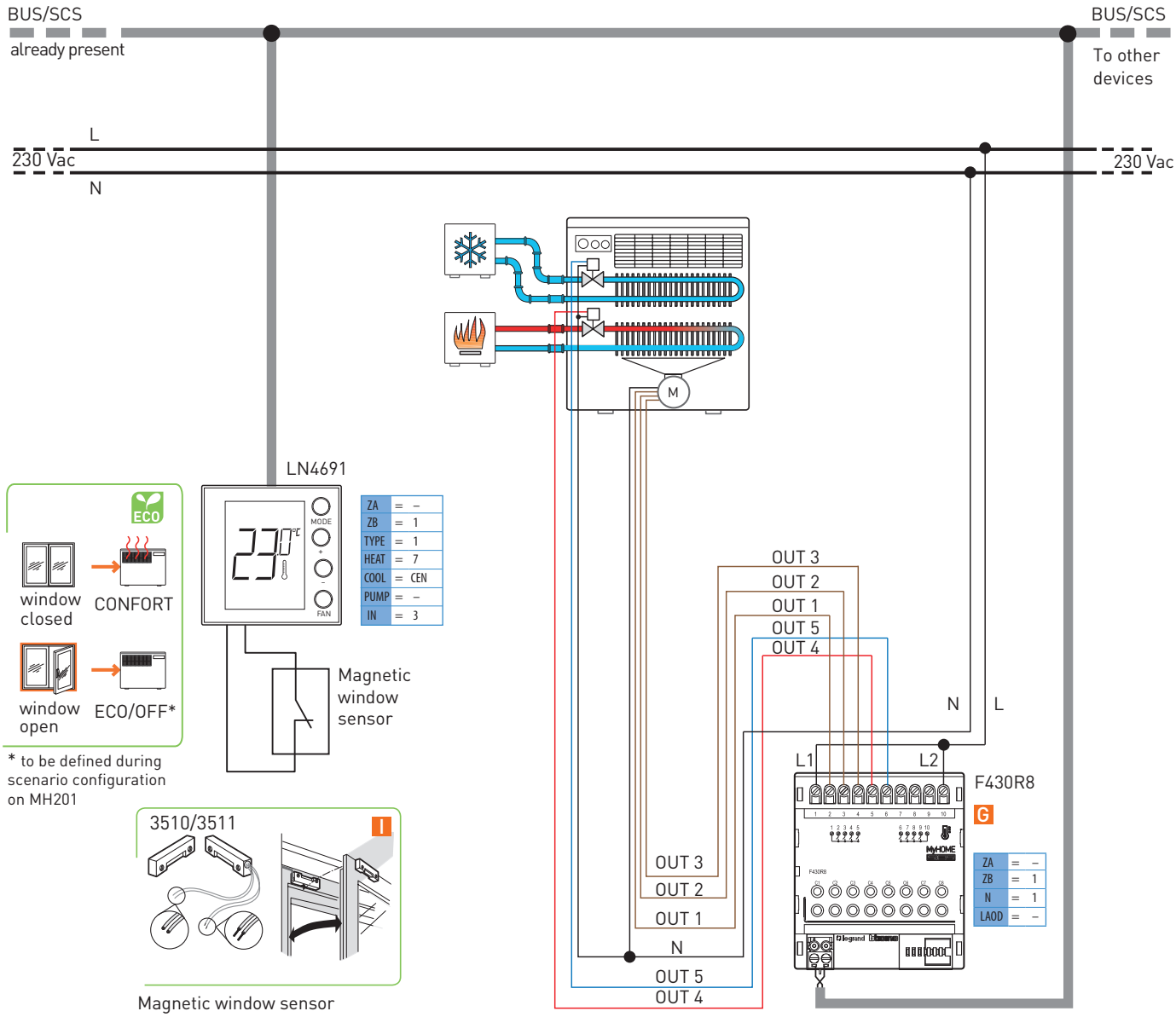
VARIANT DIAGRAM 3 MANAGEMENT AND CONTROL OF COMMON ENTRANCES (MAX 8)

- **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

- **a.** type, name and category
- **b.** Unique code of the MH201
- **c.** The ID of the SCS devices
- **d.** 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)

- **a.** Send the configuration of the MH201
- **b.** 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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Contents

AXOLUTE

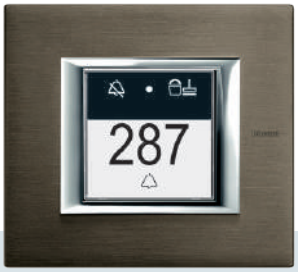
hotel solutions

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.

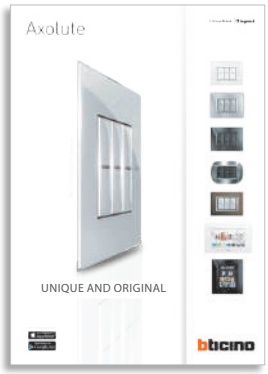
DESIGNED TO IMPROVE THE COMFORT OF THE CUSTOMER

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
		CONTROL INDICATORS FOR ROOM MANAGEMENT
○ **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
		KEY CARDS AND KEY CARD PROGRAMMER
○ **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 batch14W40.
○ **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 Supervisione software - it is necessary to install one module for each room or zone - SCS-BUS and ethernet network connection - sizes: 1 DIN module
		SCENARIO MODULE
○ **F420**		device to save 16 scenarios for the Automation, Sound system, Temperature control and Video door entry applications - 2 DIN modules
		IP SERVER
○ **F458**		IP SERVER to be used in systems with over 100 rooms or zones (over 100 MH201 installed). Size: 6 DIN modules
		DRIVER MANAGER
○ **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)		
		SOFTWARE
○ **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


HD4657M3


HS4657M3

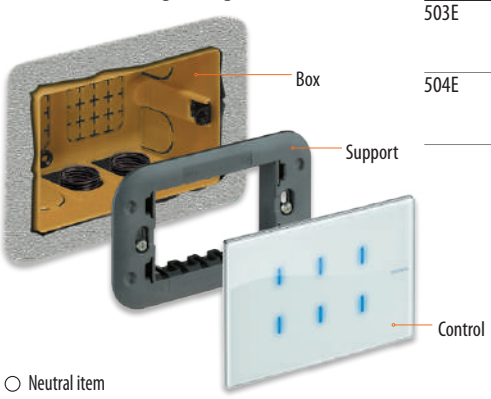
Item		CONTROLS
○ H4651M2		Special control – can drive an actuator performing all the standard functions of a control and in addition some special functions: activation of 4 scenarios saved in module item F420, timings, activation of an actuator installed on a different bus than the control, selection of the fixed adjustment level and the dimmer soft-start and soft-stop speed, sound system, door lock switching on control, call to the floor and switching on staircase light control and management of auxiliary channels. To be completed with 1 or 2-module key covers with one or two functions - 2 modules
		CONTROLS FOR SINGLE OR DOUBLE LOADS
○ H4652/2		control which can drive a single actuator for single or double loads or two actuators for single loads or independent double loads – to be completed with 1 2-module key cover for controls with one or two functions or 2 1-module key covers with one or two functions - 2 modules
○ H4652/3		control which can drive three actuators for single or double loads or two actuators for single loads or independent double loads – to be completed with 3 1-module key covers for controls with one or two functions - 3 modules
		CONTROL FOR ROLLING SHUTTER MANAGEMENT
○ H4660M2		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.
		SCENARIO CONTROL
☐ HD4680 ■ HC4680 ■ HS4680		customisable scenario control to control 4 independent "room situations" - 2 modules
○ H4652		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.

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

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		6-key control– size: 3 modules
☐ HD4657M4		8-key control– size: 4 modules
		WHICE
■ HC4657M3		6-key control– size: 3 modules
■ HC4657M4		8-key control– size: 4 modules
		NIGHTER
■ HS4657M3		6-key control– size: 3 modules
■ HS4657M4		8-key control– size: 4 modules

NOTE: 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

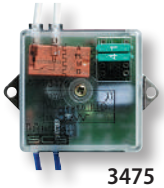


Box	Support	Control
503E	H4703	**HD4657M3**
		HC4657M3
		HS4657M3
504E	H4704	**HD4657M4**
		HC4657M4
		HS4657M4

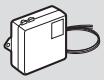
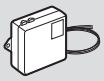
AXOLUTE
SCS-BUS devices (lights and automation)


H4671M2

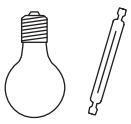
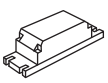
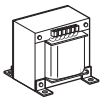
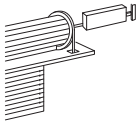

H4678


3475

Item		ACTUATORS AND FLUSH MOUNTED ACTUATORS/ DIMMERS
○ **H4671M2**		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
○ **H4671/1**		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
○ **H4678**		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		BASIC MODULE ACTUATOR
○ **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
		ACTUATORS FOR ROLLING SHUTTER MANAGEMENT
○ **H4661M2**		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.
○ **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 [1]	Compact fluorescent lamps	Electronic transformers [3]	Ferromagnetic transformers [2] [3]	Reducer motors for rolling shutters [4]
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 cosφ 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 cosφ 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 cosφ 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

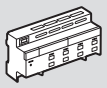
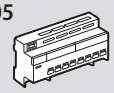

F411/4


F411/1NC

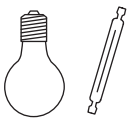
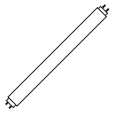
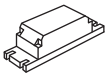
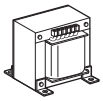
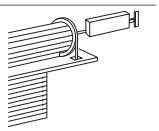

BMSW1002


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 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
○ **BMDI1002** 	1/10V dimmer, "Zero Crossing" technology, 4 outputs with maximum load 4.3 A at 230 V a.c., clamp connection, IP20 protection index, 10 DIN modules, power supply100/240 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 supply100/240 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 [1]	 Compact fluorescent lamps	 Electronic transformers [3]	 Ferromagnetic transformers [2] [3]	 Reducer motors for rolling shutters [4]
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	- -
BMDI1002	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.

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

AXOLUTE

SCS-BUS devices (lights and automation)


F413N


BMDI1001


F414


F416U1

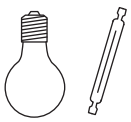
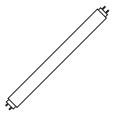
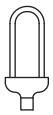
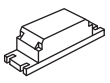
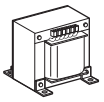
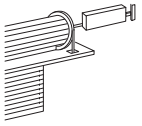

F418U2


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 [1]	Compact fluorescent lamps	Electronic transformers [3]	Ferromagnetic transformers [2] [3]	Reducer motors for rolling shutters [4]
BMDI1001	4.3 A 1000 VA	- -	4.3 A 1000 VA	4.3 A 1000 VA	- -	- -	- -
F413N	- -	- -	2 A 460 W [5] 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 1/10 V ballast.

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

AXOLUTE

SCS-BUS devices (temperature control)

H4691

F430R8

F430R3V10

F430V10

Item		THERMOSTAT
○ 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.

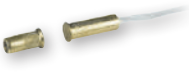
Item		DIN ACTUATORS
○ F430R8		actuator with 8 independent relays for the control of on-off valves, motorised valves (open-close and three points), pumps and fan coils with 2 and 4 tubes - 4A resistive, 1A motor valves, pumps and fan-coils- SCS-bus connection - sizes: 4 DIN modules
○ F430R3V10		actuator 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

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

AXOLUTE
SCS-BUS devices (interface and accessories)

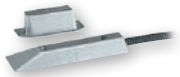
E46ADCN

3515

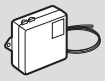


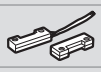
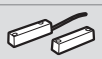
3510M

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

AXOLUTE

SCS-BUS devices (accessories)

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

3501/CEN 3501/GR 3501/AMB 3501/AUX

3501/PUL 3501/SLA 3501/CEN 3501/T

3501K/1

336904
L4669HF

L4669
L4669/500

Item	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

Item		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 lenght 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/

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

AXOLUTE

Traditional devices


HD4177


HD4285C2


HC4033


H4372V230H

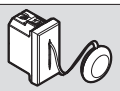

H4549

Finishing accessories for SCS-BUS and traditional devices


HS4547


HC4915DD


HC4915MR

Item		KEY CARD SWITCH
○ 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
○ 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
		LAMPHOLDER FOR OFF-DOOR NOTIFICATION
○ H4372V230H		off-door lampholder with double optical notification: do not disturb and make up room – use 2 LEDs item LN4742V12T (12V)
		SHAVER SOCKETS
□ HD4177 ■ HC4177 ■ HS4177		shaver socket with insulation transformer - input voltage 230 Va.c. 50/60 hz - output voltage 115/230 Va.c. 20 VA
		PULL-CORD PUSHBUTTON
□ HD4033 ■ HC4033 ■ HS4033		cord pushbutton 1 P NO 10 A for bathroom alarm
		USB CHARGERS
□ HD4285C ■ HC4285C ■ HS4285C		5 Vdc USB socket for charging electronic devices up to 750 mA like mobile phones, smartphones, tablets and similar – 230 Vac power supply
□ HD4285C2 ■ HC4285C2 ■ 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

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

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

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

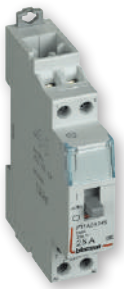
AXOLUTE

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	25	1NO+1NC	1
FT1A2N24			2 NO	1
FT2A4N24			4 NO	2
FT1AC1N230	230		1NO+1NC	1
FT1A2N230			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
	In = 40-63A			
FC2A4/24N	24	40	2 NO	2
FC4A4/24N			4 NO	3
FC4A6/24N		63	4 NO	3
FC2A4/230N	230	40	2 NO	2
FC3A4/230N			3 NO	3
FC4A4/230N			4 NO	3
FC4A6/230N		63	4 NO	3

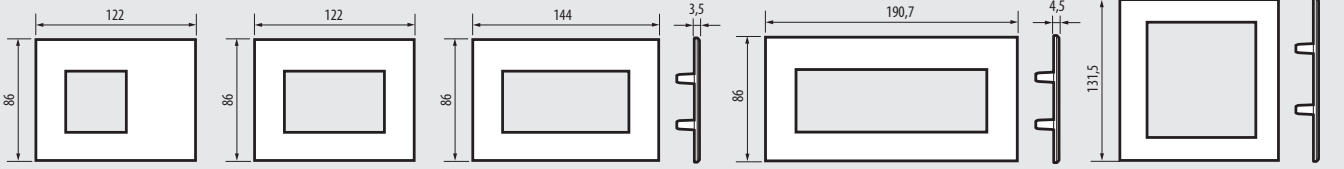
	SILENT			
FT1A1N24S	24	25	1NO	1
FT1A2N24S			2 NO	1
FT1A1N230S	230		1NO	1
FT1A2N230S			2 NO	2

TECHNICAL FEATURES

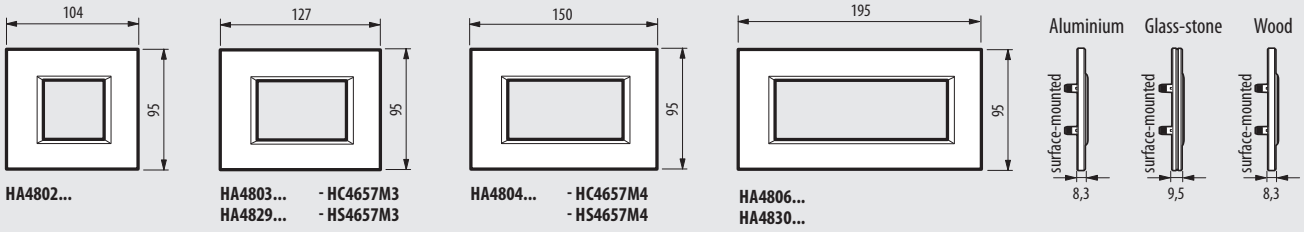
Reference standards: CEI EN 61095
Rated pulse voltage Uimp (kV): 4
Rated reel voltage Vn (Vac): 24 or 230
Rated insulating voltage Ui (Vac): 500
Rated current In (A) at 30°C: 25-40-63
Conditioned short-circuit current (kA): 3
Rated frequency (Hz): 50/60
Operating temperature (°C): -25 to 40
Max No. of 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^2): see table

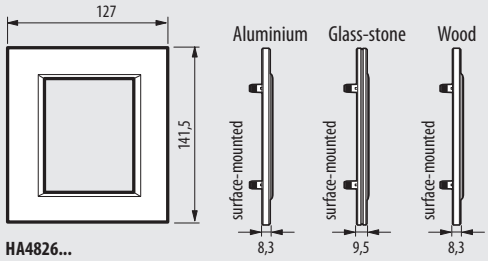
AXOLUTE
Dimensional data

AXOLUTE AIR COVER PLATES

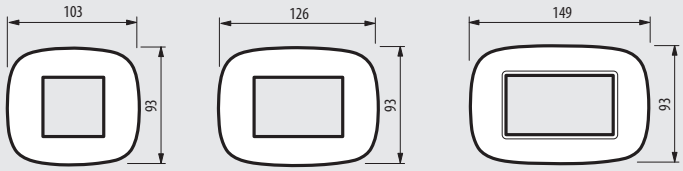


AXOLUTE RECTANGULAR COVER PLATES





AXOLUTE ELLIPTICAL COVER PLATES



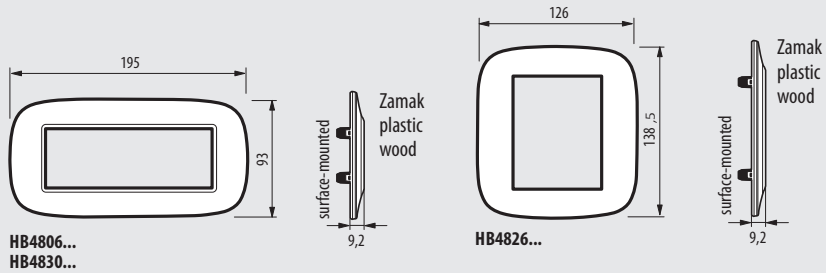
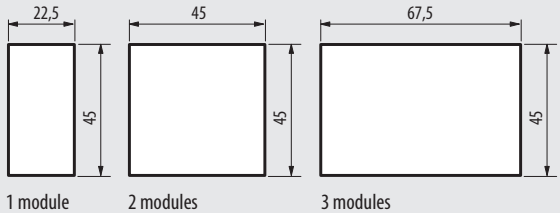
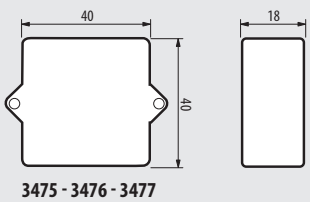


TABLE WITH DIN SIZES (mm)			
No. of modules	A	B	C
1	17.5	82	66
2	35	82	66
3	52.5	82	66
4	70	82	66
5	87.5	82	66
6	105	82	66
7	122.5	82	66
8	140	82	66
9	157.5	82	66
10	175	82	66
12	210	82	66

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

EQUIPMENT INCLUDING SPECIFIC PRODUCTS FOR THE SCS-BUS ROOM

STANDARD EQUIPMENT

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

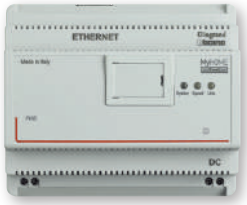
LIVINGLIGHT
SCS-BUS devices (specific for the hotel)

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

LN4650

LN4651


MH201



F458


F459


LN4653


348402

3544SW
3546SW

Item		
		KEY CARD SWITCHES
○ **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
○ **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
		CONTROL INDICATORS FOR ROOM MANAGEMENT
○ **LN4650**		DO NOT DISTURB – MAKE UP THE ROOM indicator and bell pushbutton - SCS-BUS connection - sizes: 2 modules
○ **LN4651**		key card reader in RFID technology + DO NOT DISTURB – MAKE UP THE ROOM indicator and bell pushbutton - SCS-BUS connection - sizes: 2 modules
○ **LN4653**		DO NOT DISTURB – MAKE UP THE ROOM control to be completed with key covers - SCS-BUS connection - sizes: 2 modules
		KEY CARDS AND KEY CARD PROGRAMMER
○ **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 batch14W40.
○ **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 Supervisione software - it is necessary to install one module for each room or zone - SCS-BUS and ethernet network connection - sizes: 1 DIN module
		SCENARIO MODULE
○ **F420**		device to save 16 scenarios for the Automation, Sound system, Temperature control and Video door entry applications - 2 DIN modules
		IP SERVER
○ **F458**		IP SERVER to be used in systems with over 100 rooms or zones (over 100 MH201 installed). Size: 6 DIN modules
		DRIVER MANAGER
○ **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)
		SOFTWARE
○ **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

LIVINGLIGHT
SCS-BUS devices (lights and automation)


LN4651M2


LN4652/2


LN4652/3


N4680


L4680


LN4652

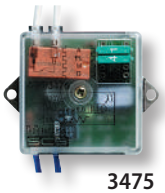
Item		CONTROLS
○ L4651M2		Special control – can drive an actuator performing all the standard functions of a control and in addition some special functions: activation of 4 scenarios saved in module item F420, timings, activation of an actuator installed on a different bus than the control, selection 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
		CONTROLS FOR SINGLE OR DOUBLE LOADS
○ L4652/2		control which can drive a single actuator for single or double loads or two actuators for single loads or independent double loads – to be completed with 1 2-module key cover for controls with one or two functions or 2 1-module key covers with one or two functions - 2 modules
○ L4652/3		control which can drive three actuators for single or double loads or two actuators for single loads or independent double loads – to be completed with 3 1-module key covers for controls with one or two functions - 3 modules

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.
		SCENARIO CONTROL
□ L4680 ■ N4680 ■ 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.

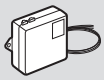
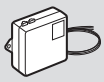
NOTE: □ **White** device ■ **Tech** device ■ **Anthracite** device ○ Neutral item


LN4671M2

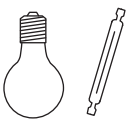
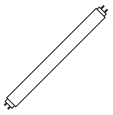
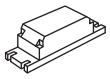
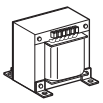
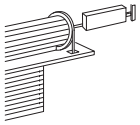

L4678


3475

Item		ACTUATORS AND FLUSH MOUNTED ACTUATORS/ DIMMERS
○ 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		BASIC MODULE ACTUATOR
○ 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
		ACTUATORS FOR ROLLING SHUTTER MANAGEMENT
○ 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 [1]	Compact fluorescent lamps	Electronic transformers [3]	Ferromagnetic transformers [3] [2]	Reducer motors for rolling shutters [4]
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

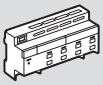
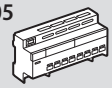

F411/4


F411/1NC

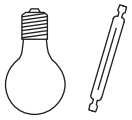
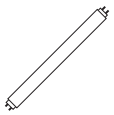
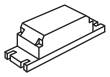
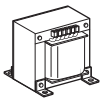
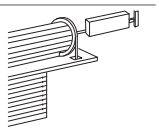

BMSW1002


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 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
○ **BMDI1002** 	1/10V dimmer, "Zero Crossing" technology, 4 outputs with maximum load 4.3 A at 230 V a.c., clamp connection, IP20 protection index, 10 DIN modules, power supply100/240 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 supply100/240 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 [1]	 Compact fluorescent lamps	 Electronic transformers [3]	 Ferromagnetic transformers [2] [3]	 Reducer motors for rolling shutters [4]
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	- -
BMDI1002	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.

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

LIVINGLIGHT
SCS-BUS devices (lights and automation)


F413N


BMDI1001


F414

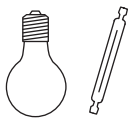
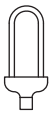
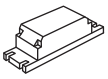
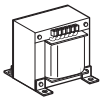
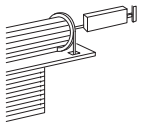



F416U1

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 [1]	Compact fluorescent lamps	Electronic transformers [3]	Ferromagnetic transformers [2] [3]	Reducer motors for rolling shutters [4]
BMDI1001	4.3 A 1000 VA	- -	4.3 A 1000 VA	4.3 A 1000 VA	- -	- -	- -
F413N	- -	- -	2 A 460 W [5] 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 1/10 V 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

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

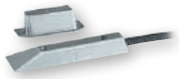
SCS-BUS devices (interface and accessories)

E46ADCN

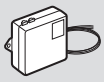
3515

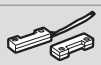
3510M

3511



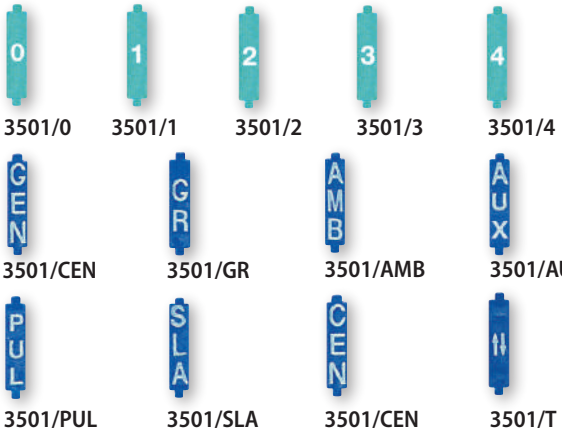
3512

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)



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

3501/CEN 3501/GR 3501/AMB 3501/AUX

3501/PUL 3501/SLA 3501/CEN 3501/T

3501K/1

336904
L4669HF

L4669
L4669/500

Item	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

Item		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 lenght 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/

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

Traditional devices


LN4549

L4177


N4033


N4373H

Finishing accessories for SCS and traditional devices


NT4547


NT4915DD


NT4915MR


NT4915TN

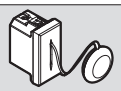

N4915SETBL

Item		KEY CARD SWITCH
○ 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
○ 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
□ N4373H ■ NT4373H ■ L4373H		off-door lampholder with double optical notification: do not disturb and make up room – use 2 LEDs item LN4742V12T (12V)

		SHAVER SOCKETS
□ N4177* ■ NT4177 * ■ 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
□ N4033 ■ NT4033 ■ L4033		cord pushbutton 1 P NO 10 A for bathroom alarm

Item		FRONT COVERS FOR KEY CARD SWITCHES
□ N4547 ■ NT4547 ■ L4547		front cover for traditional or SCS key card switch - 2 modules
□ N4551 ■ NT4551 ■ L4551		front cover for traditional or SCS key card switch - 3 modules

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

		KEY COVERS THAT CAN BE CUSTOMISED AND KIT OF DIFFUSERS
□ N4915TN ■ NT4915TN ■ L4915TN		key cover for rocker control devices that can be customised with lightable diffuser
□ N4915SETBL ■ NT4915SETBL ■ 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

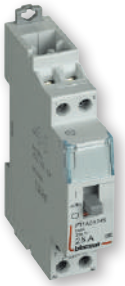
LIVINGLIGHT

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).

FT1A2N24

FT2A3N230



FT1A2N24S

Item	AC3 CONTACTORS			
	In = 25A			
	Vn (Vac)	In (A)	Contact	No. of modules
FT1AC1N24	24	25	1NO+1NC	1
FT1A2N24			2 NO	1
FT2A4N24			4 NO	2
FT1AC1N230	230		1NO+1NC	1
FT1A2N230			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
	In = 40-63A			
FC2A4/24N	24	40	2 NO	2
FC4A4/24N			4 NO	3
FC4A6/24N		63	4 NO	3
FC2A4/230N	230	40	2 NO	2
FC3A4/230N			3 NO	3
FC4A4/230N			4 NO	3
FC4A6/230N		63	4 NO	3

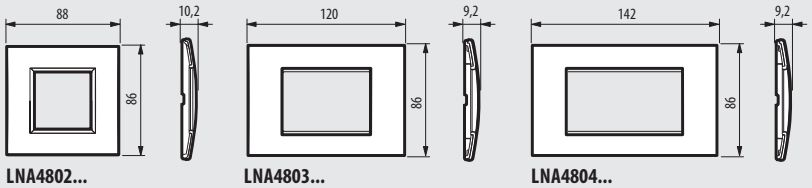
	SILENT			
FT1A1N24S	24	25	1NO	1
FT1A2N24S			2 NO	1
FT1A1N230S	230		1NO	1
FT1A2N230S			2 NO	2

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^2): see table

LIVINGLIGHT
Dimensional data

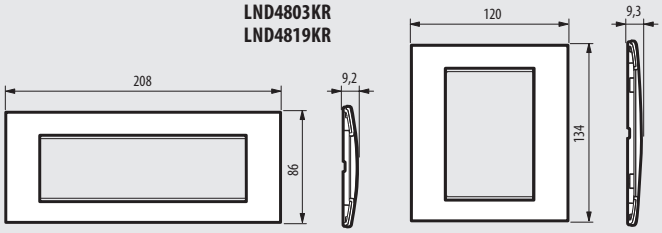
SQUARE COVER PLATES



LNA4802...
LND4802KR

LNA4803...
LNA4819...
LND4803KR
LND4819KR

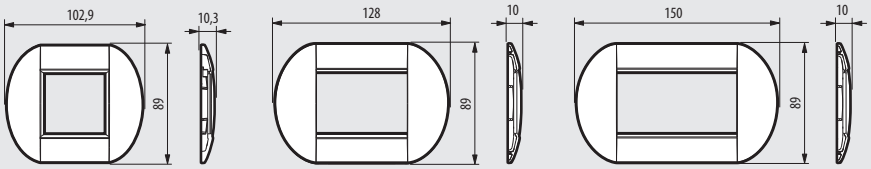
LNA4804...
LND4804KR



LNA4807...
LND4807KR

LNA4826...
LND4826KR

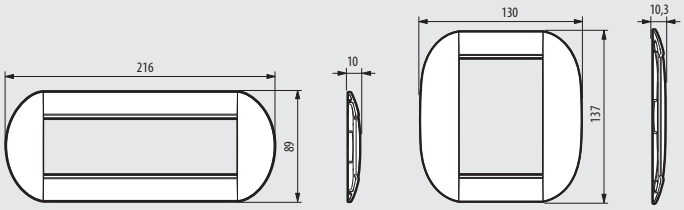
ROUND COVER PLATES



LNB4802...

LNB4803...

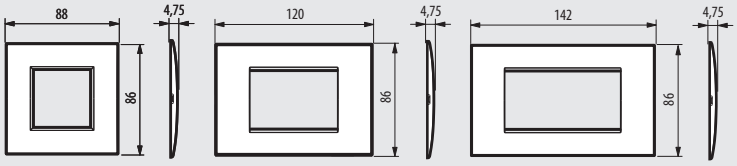
LNB4804...



LNB4807...

LNB4826...

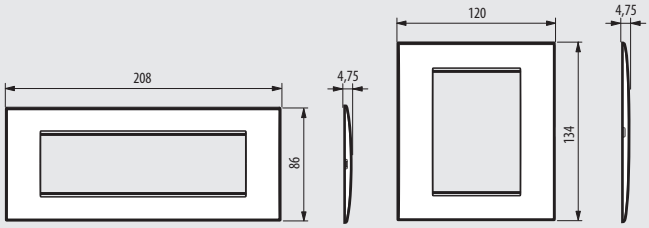
LIVINGLIGHT AIR COVER PLATES



LNC4802...

LNC4803...

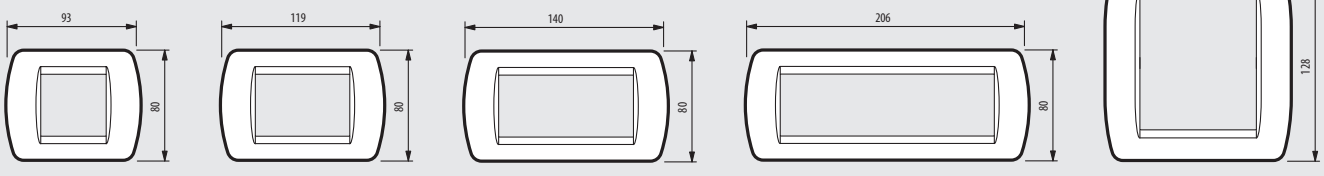
LNC4804...



LNC4807...

LNC4826...

LIVING INTERNATIONAL COVER PLATES



L4802..

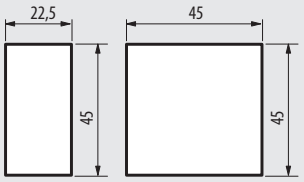
L4803..

L4804..

L4807..

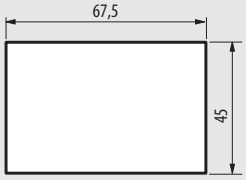
L4826..

MODULAR DEVICES



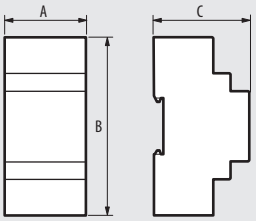
1 module

2 modules



3 modules

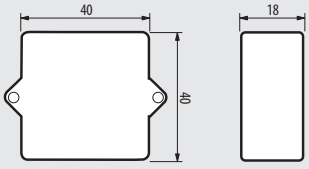
DIN DEVICES



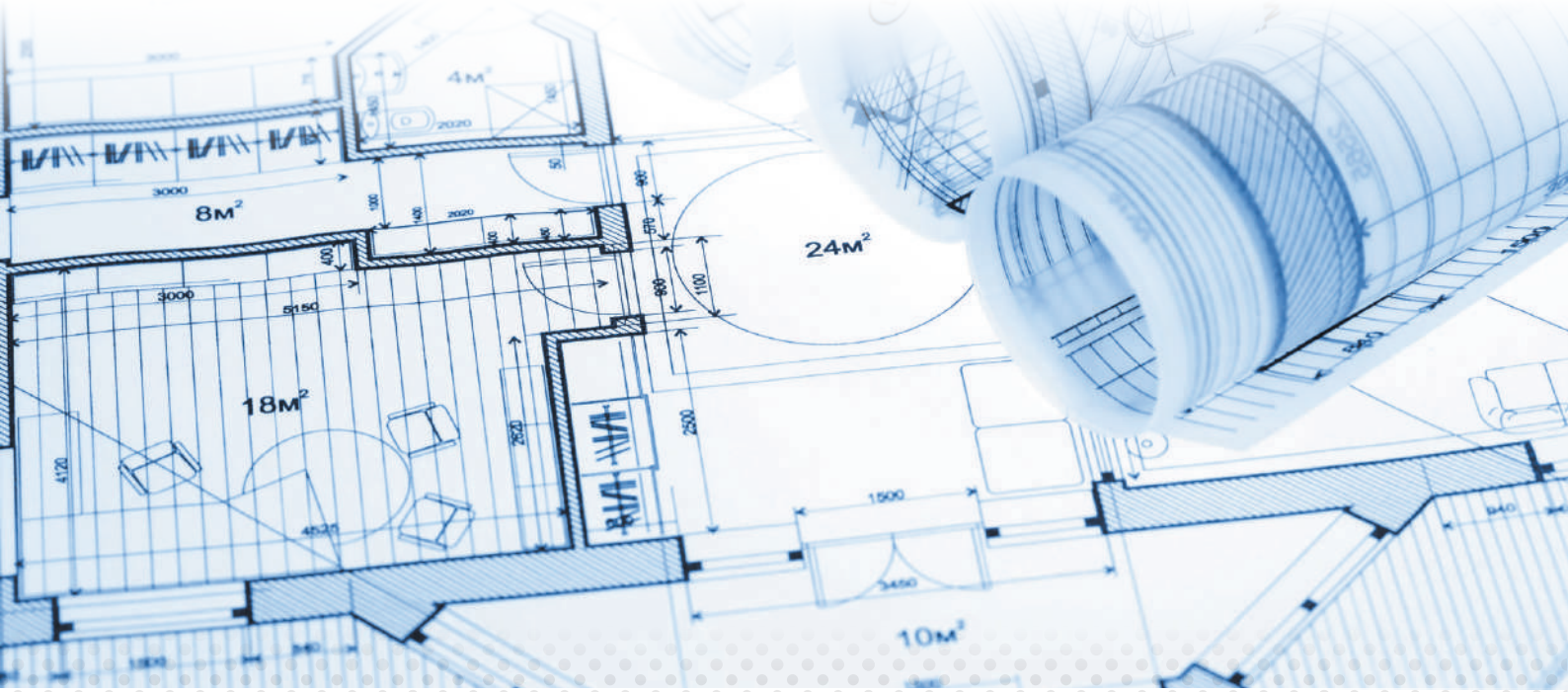
2 DIN modules

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

BASIC INTERFACE MODULE



3475 - 3476 - 3477


4м²
8м²
24м²
18м²
10м²
3000
2020
1500
3450

Contents

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/

BUS/SCS
compact power supply

E49

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)

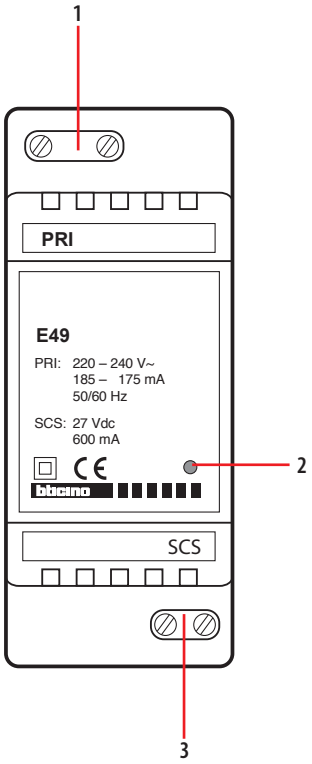
Rated voltage:	220 – 240 V
Rated current:	175 – 185 mA
Working voltage range:	187 – 265 V
Operating frequency range:	47 – 63 Hz
Power consumption - full load:	21.5 W max
Power consumption:	5.3 W max
Full load yield:	80% typ.
Stand by power:	lower than 1 W
Operating temperature:	(+5) – (+40) °C
Integrated 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

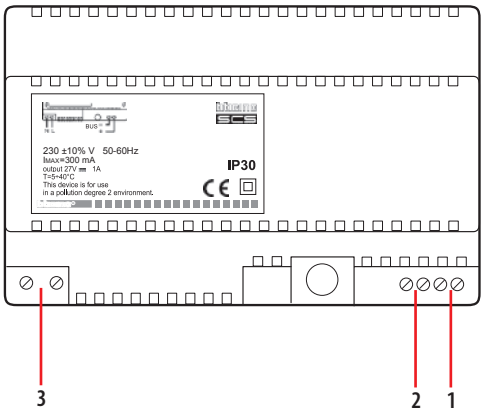
1. Clamps (PRI) for connection to the supply voltage
2. LED: – green (power supply ON)
   – red (output current overload)
3. (SCS) clamps for connection to the BUS/SCS

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 ± 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

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

Dimensional data

Size: 8 DIN modules

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 MY HOME catalogues (ex: Web server, A/V server, scenario programmers, 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

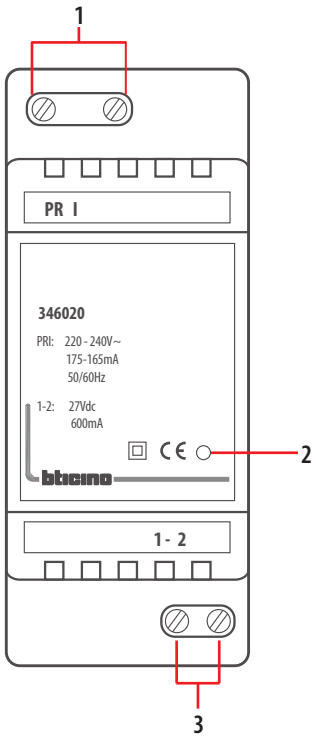
Dimensional data

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; 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

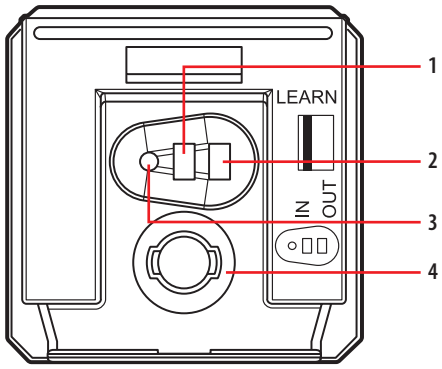
Standards, certifications, marks

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

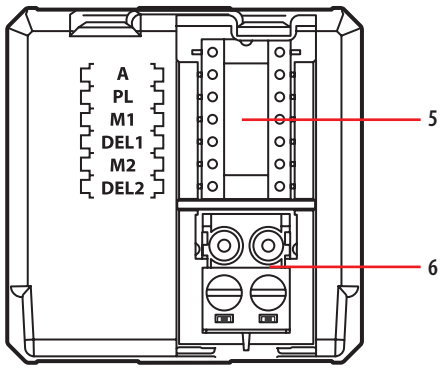
Dimensional data

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

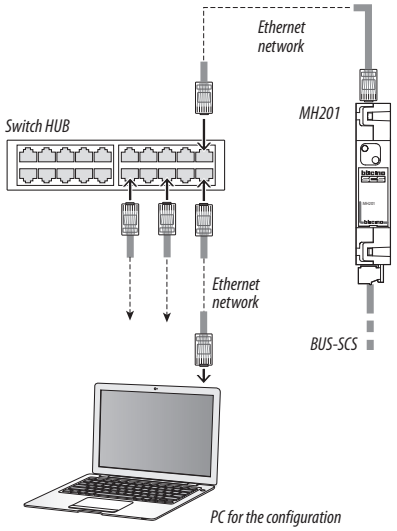
Configurator value	Scenario - Group
1	Scenario-group (Sce1=1, Sce2=9, Gr=1)
2	Scenario-group (Sce1=2, Sce2=10, Gr=2)
3	Scenario-group (Sce1=3, Sce2=11, Gr=3)
4	Scenario-group (Sce1=4, Sce2=12, Gr=4)
5	Scenario-group (Sce1=5, Sce2=13, Gr=5)
6	Scenario-group (Sce1=6, Sce2=14, Gr=6)
7	Scenario-group (Sce1=7,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

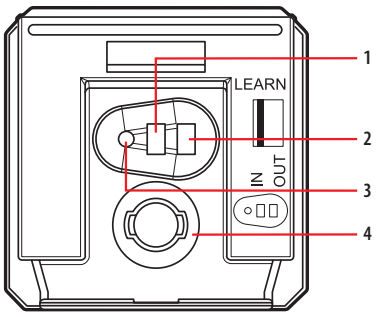
Ethernet connection with the system.



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).



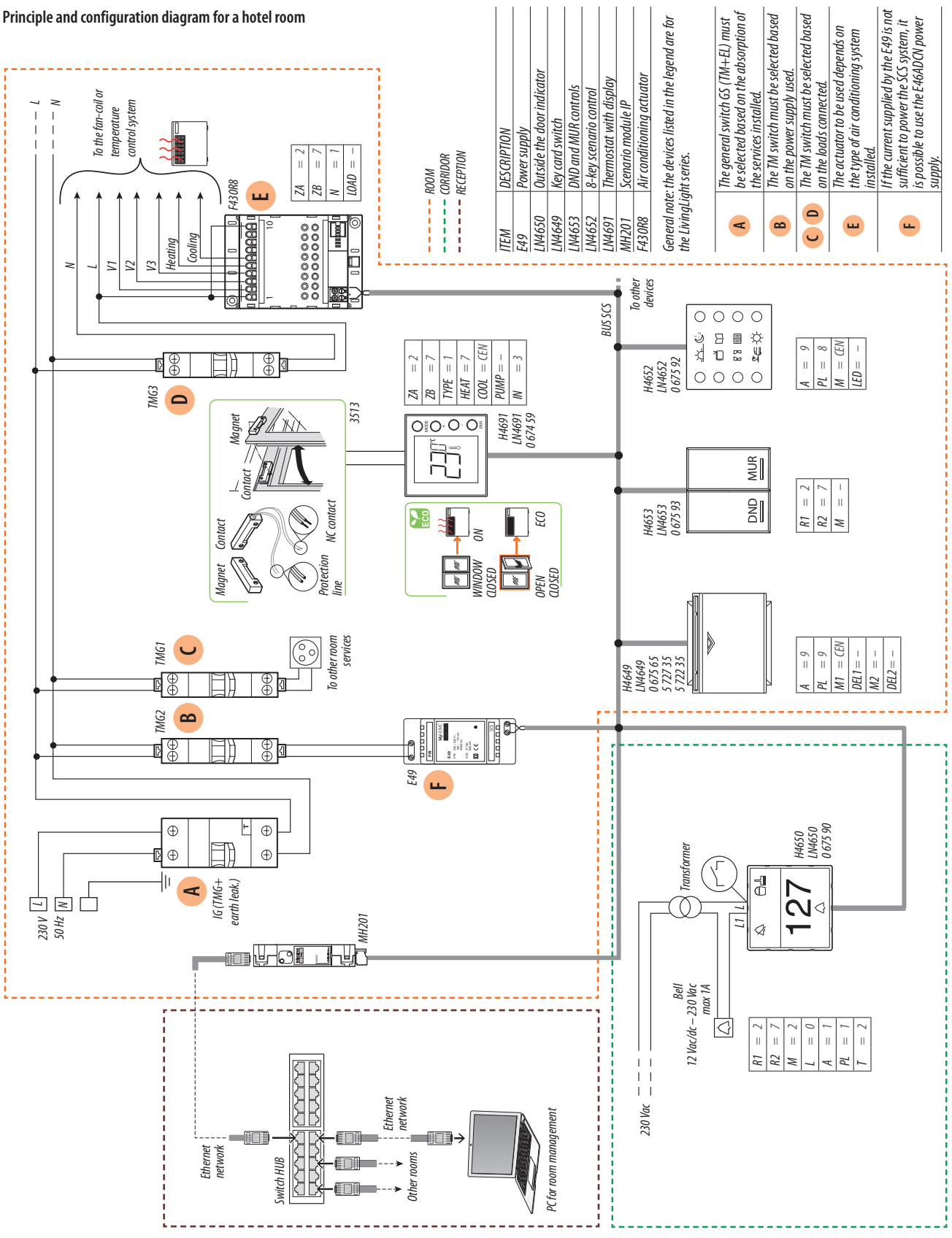
1. Programming key: Learn IN
2. Programming key: Learn OUT
3. LED
4. Key card detection microswitch

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; 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

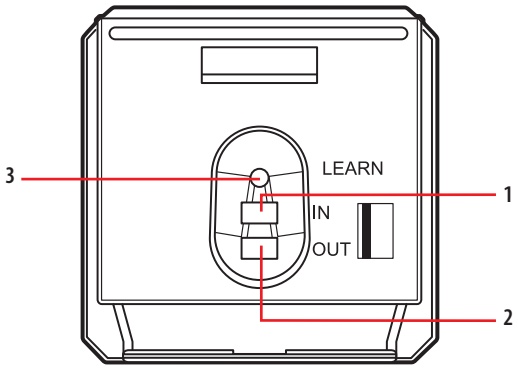
Standards, certifications, marks

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

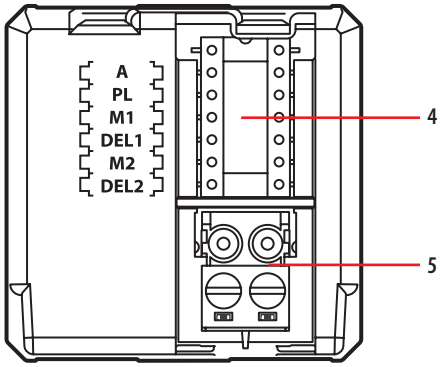
Dimensional data

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

Physical configuration

There are two modes:
- CENTRALIZED, 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

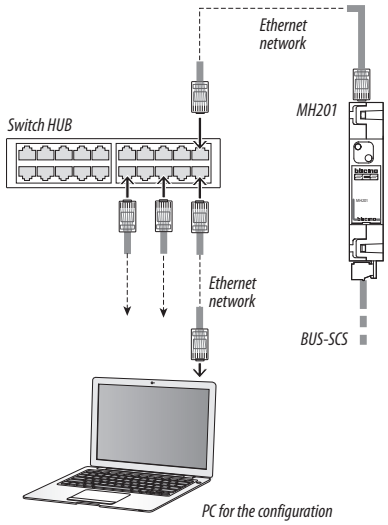
Configurator value	Scenario - Group
1	Scenario-group (Sce1=1, Sce2=9, Gr=1)
2	Scenario-group (Sce1=2, Sce2=10, Gr=2)
3	Scenario-group (Sce1=3, Sce2=11, Gr=3)
4	Scenario-group (Sce1=4, Sce2=12, Gr=4)
5	Scenario-group (Sce1=5, Sce2=13, Gr=5)
6	Scenario-group (Sce1=6, Sce2=14, Gr=6)
7	Scenario-group (Sce1=7,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

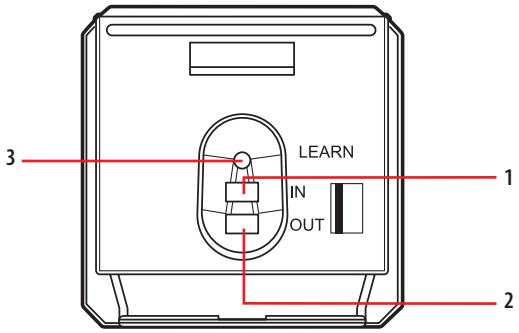
Ethernet connection with the system.



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).



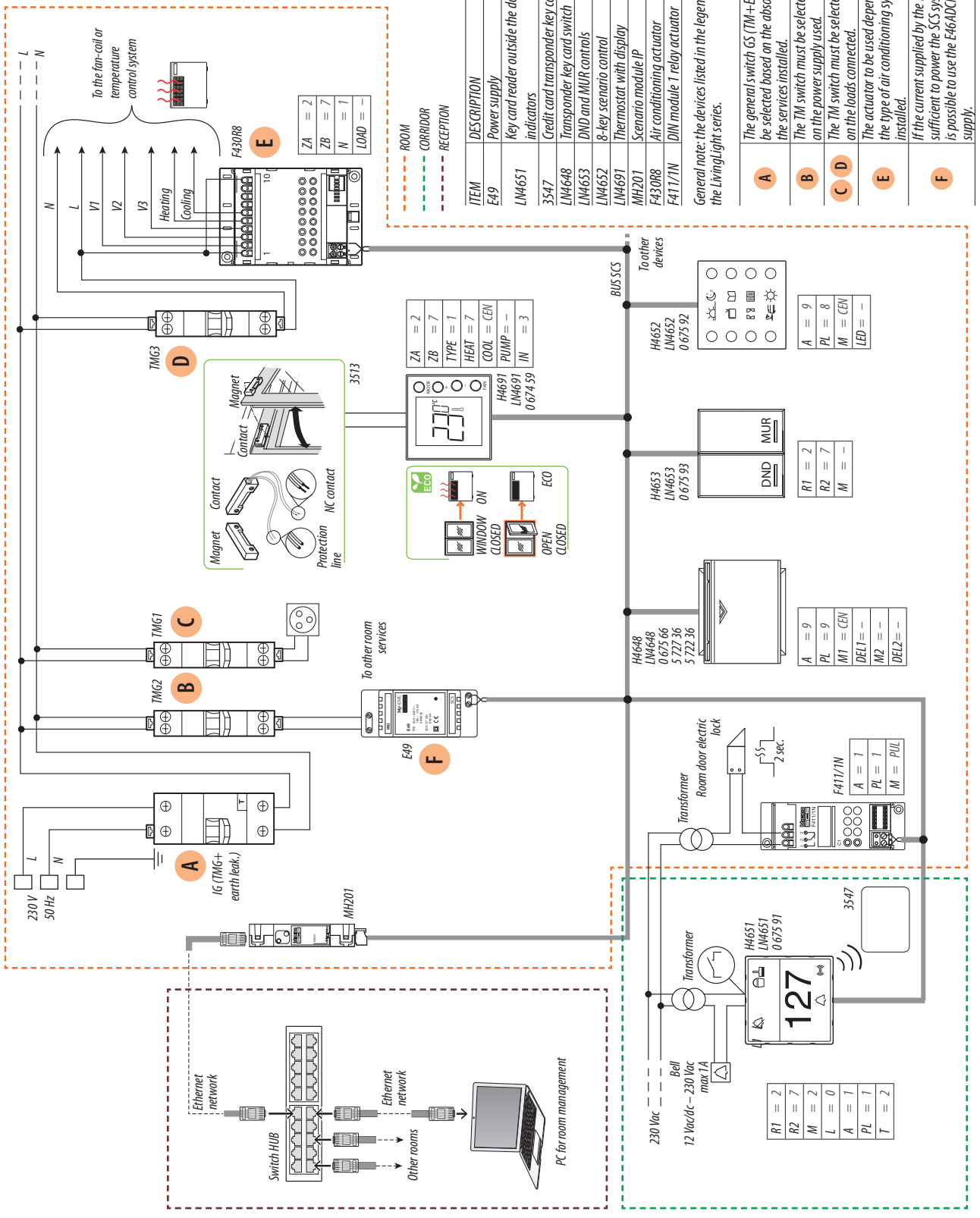
1. Programming key: Learn IN
2. Programming key: Learn OUT
3. LED

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; 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

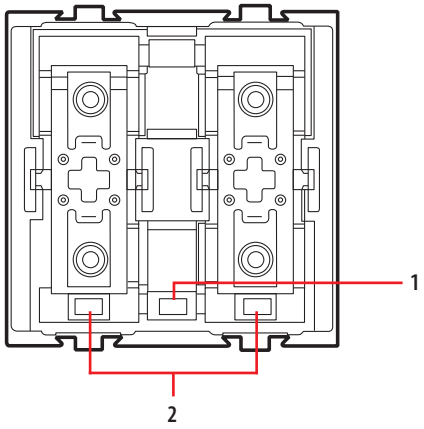
Standards, certifications, marks

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

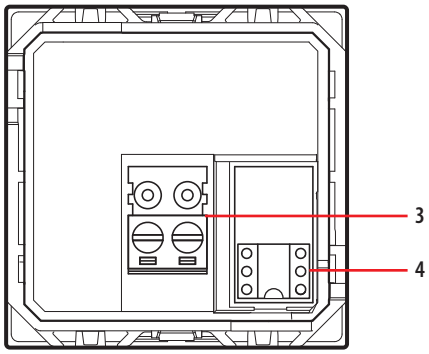
Dimensional data

Size: 2 flush mounted modules.

Front view



Rear view



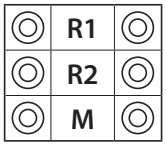
Legend

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

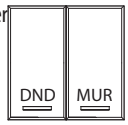
0 675 93 H4653
LN4653

Physical configuration



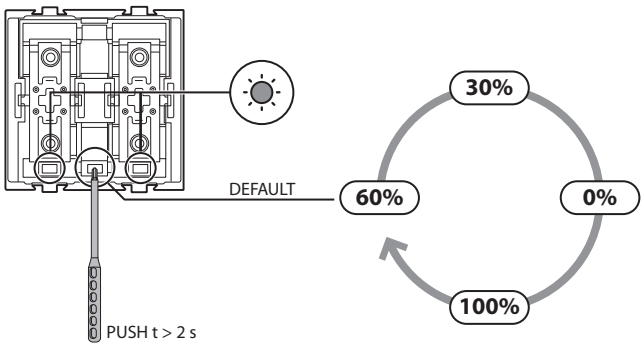
R1, R2 = Room address (R1 identifies the tenths; R2 identifies the units)

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



M = 1 DND control only - 1 double key cover

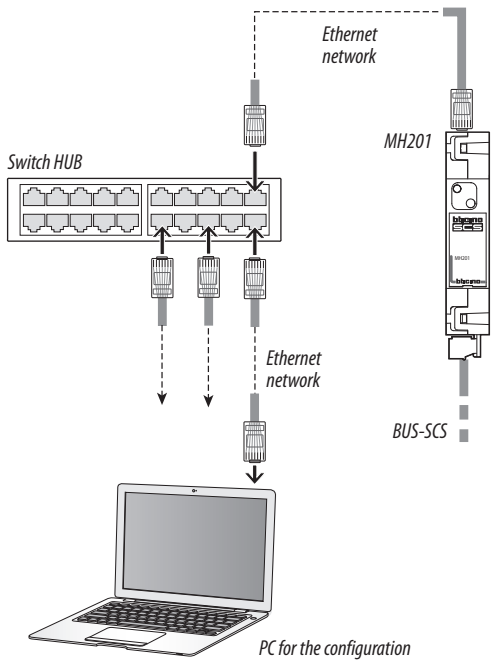
LED brightness adjustment



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.

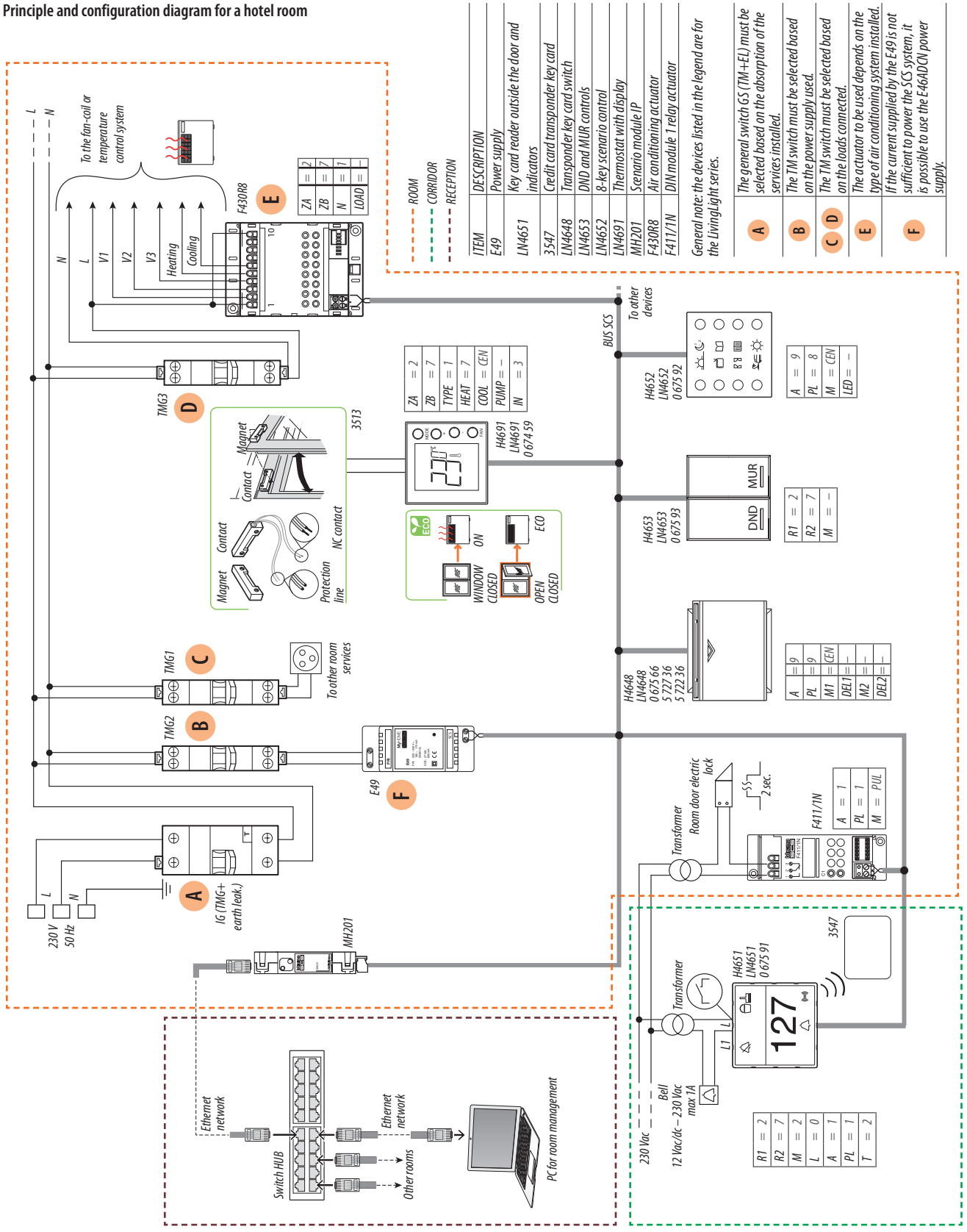


BUS-SCS
DND and MUR flush-mounted control

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; 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

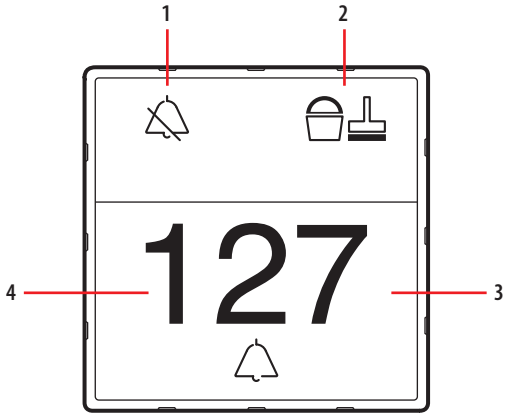
Standards, certifications, marks

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

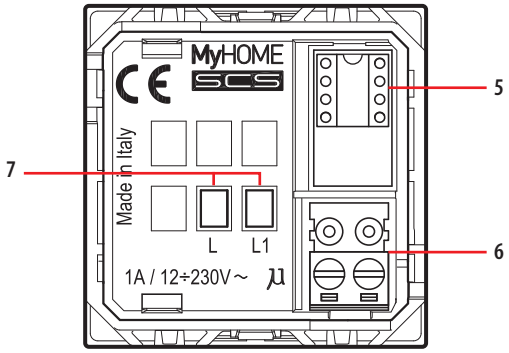
Dimensional data

Size: 2 flush mounted modules.

Front view



Rear view



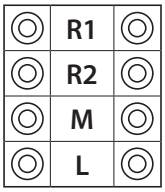
Legend

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

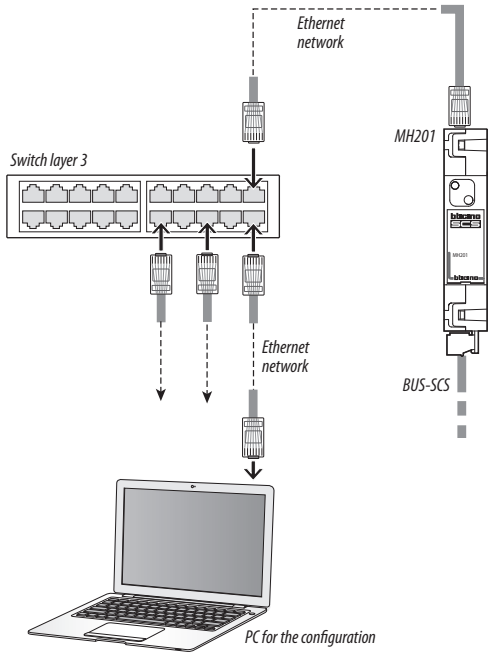
L = LED functions

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

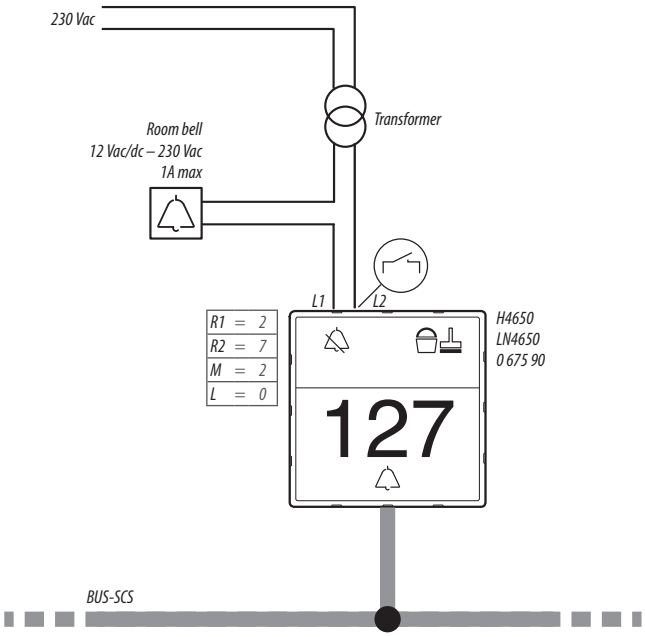
This is performed using the appropriate application MyHOME_Suite, this mode has the advantage of offering many more options when compared with the physical configuration. The configuration using the software requires Ethernet connection of the system to the PC, using the MH201 IP scenario module.

Ethernet connection with the system.



Wiring diagrams

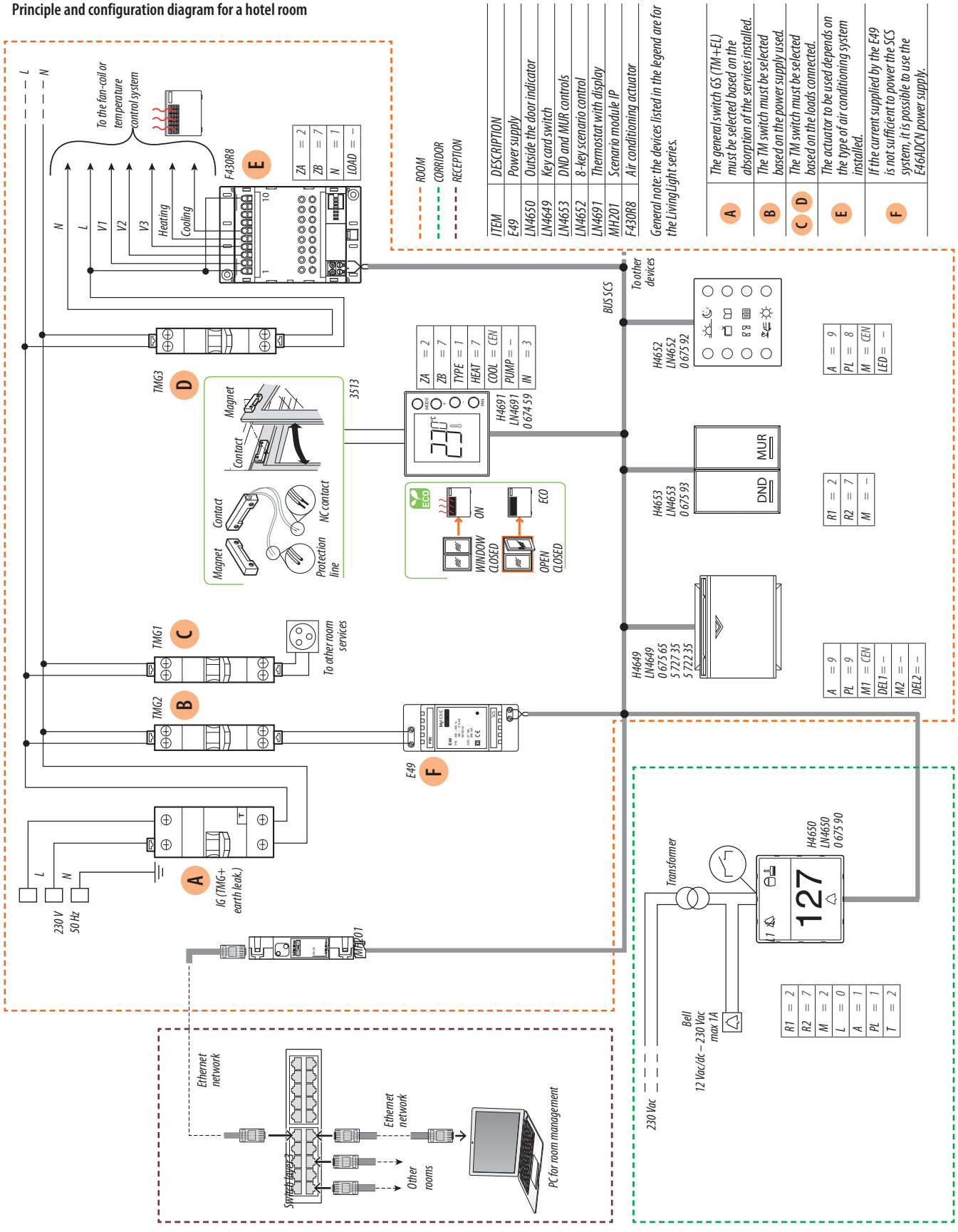
Room 127 bell control diagram
The bell is active while the relevant key on the device is pressed.



BUS-SCS
outside the door indicator

0 675 90 H4650
LN4650

Principle and configuration diagram for a hotel room



RFID reader and outside the door indicator SCS BUS

0 675 91 H4651
LN4651

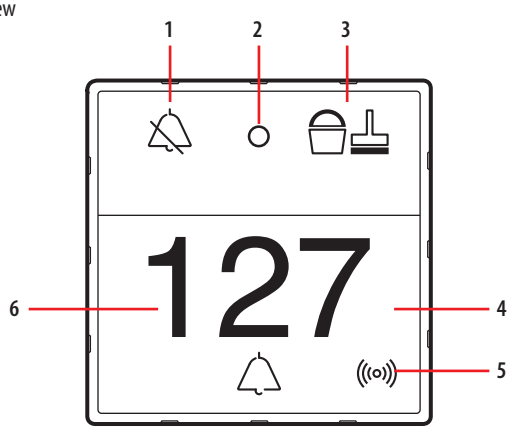
Description

Outside the door indicator with "Do Not Disturb" or "Make Up Room" notification, call bell pushbutton, RFID key card reader (Mlfare classic ISO 14443), white backlit 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".

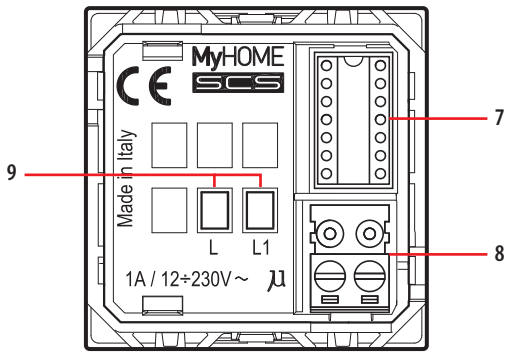
The "Visual alarm notification" function outside the door is only available for systems with the MH201 device installed, and its programming is only possible using the MyHOME_Suite software.
This function, and the compatibility with the Mifare classic ISO 14443 key card, including 3547 key cards, are 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; this last type of configuration has the advantage of offering many more options when compared with the physical configuration.

Front view



Rear view



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.

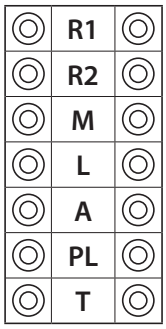
Legend

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 backlit 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



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

A, PL = door lock actuator SCS address

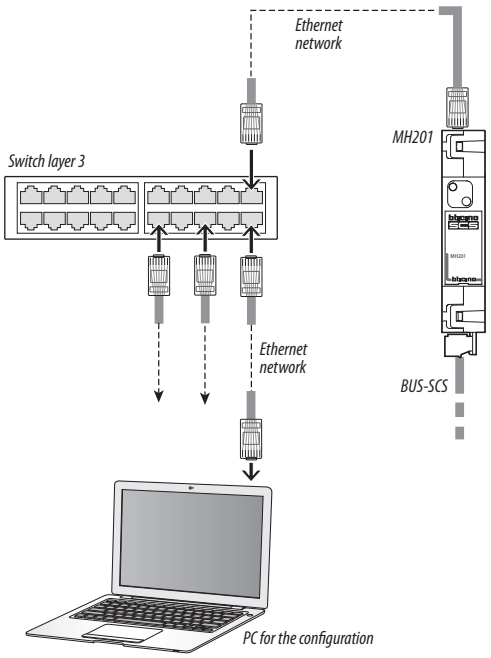
T = door lock relay timer

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

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.



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...

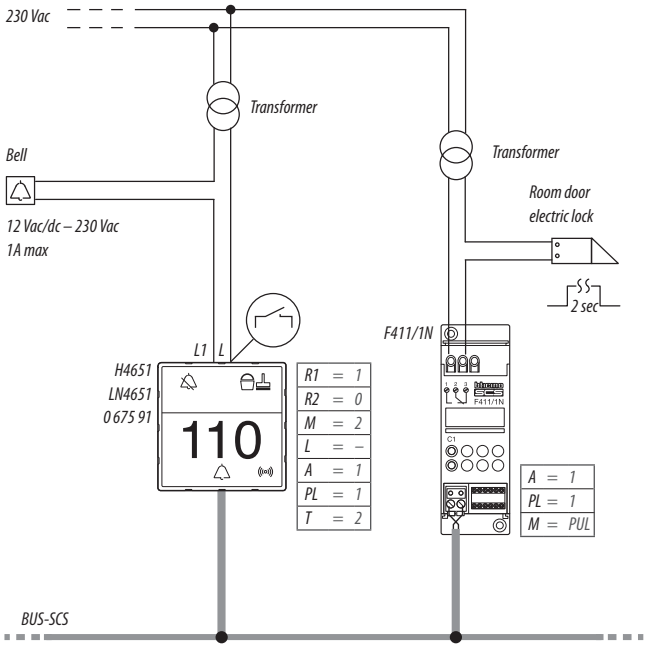
This procedure is only possible using item MH201.

Wiring diagrams

Room 110 bell + electric door lock control diagram

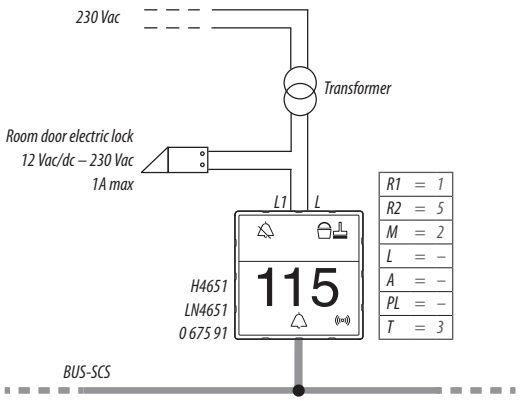
The bell is activated by the front pushbutton of the reader and indicator outside the door.

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

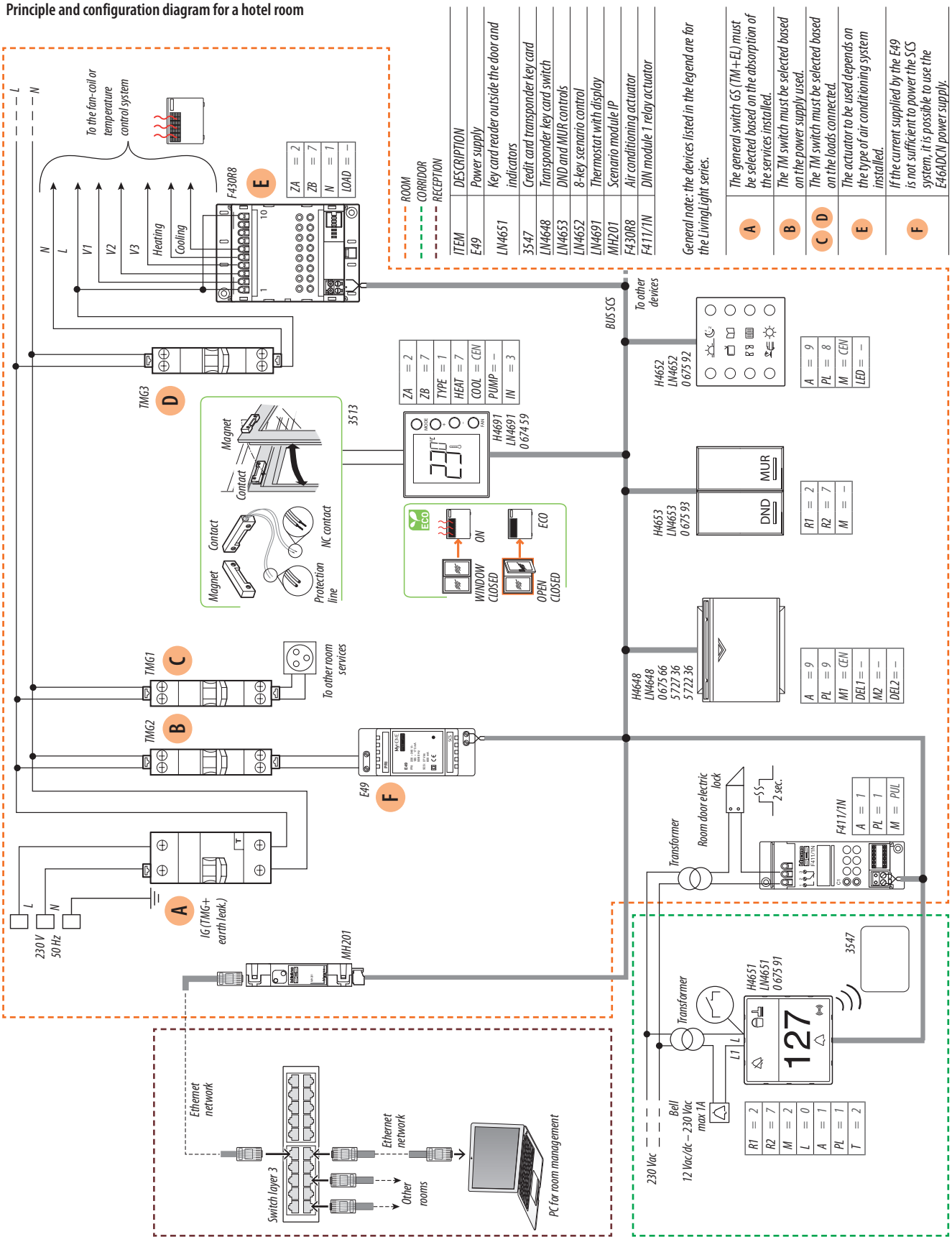
The electric door lock is activated for a period of 3 seconds by the RFID reader following a positive reading of the key card. In this mode the front pushbutton is disabled.



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

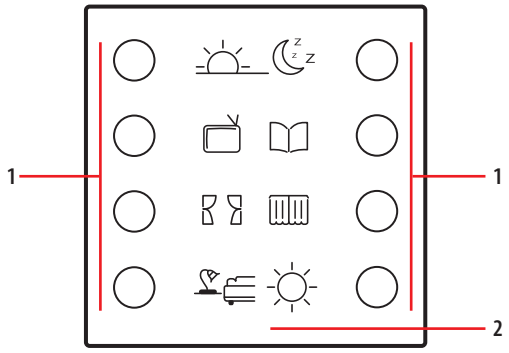
0 675 92 H4652
LN4652

Description

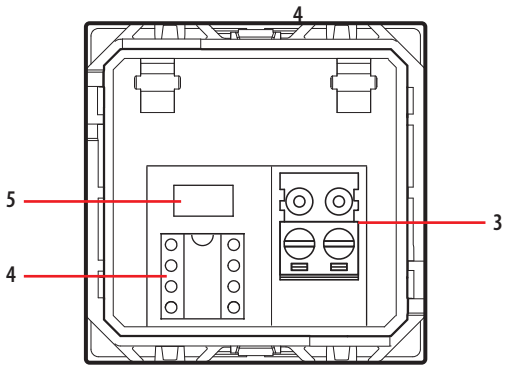
Flush mounted multifunction control, with 8 backlit keys in the centre section, where the icons indicating the functions allocated to the keys can be found.
The device can be configured in two different ways:
- **Physical configuration,** by inserting the configurators in the appropriate sockets.
-**Configuration using the MyHOME_Suite software,** which can be downloaded from the website www.homesystems-legrandgroup.com; 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.
In 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.

Front view



Rear view



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.**

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	

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

Standards, certifications, marks

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

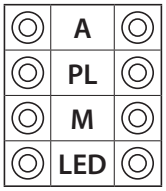
Dimensional data

Size: 2 flush mounted modules

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.

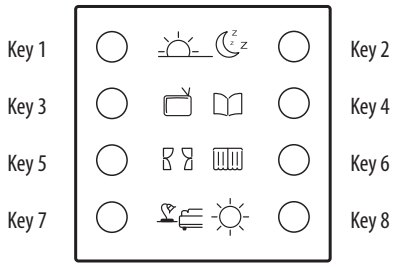
Cancelling the programming of the keys
1) Press and release the programming key; the backlight LEDs will flash slowly;
2) Within 20 seconds press and hold down for 4 seconds the key to cancel; from now on the key cancelled will no longer activate any control until programmed again;
3) The LEDs come on 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.

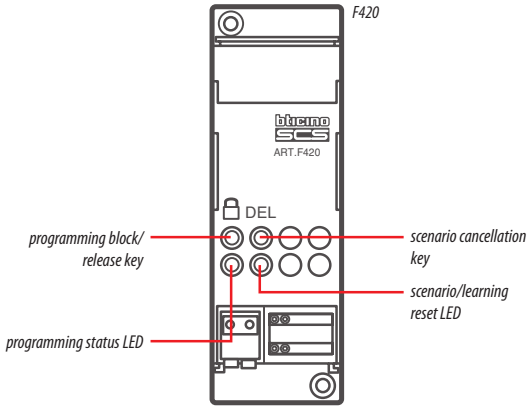
3) Scenario module M = 1 – 2
This operating mode can only be used if the system includes a scenario module F420; the matching is achieved by assigning to both the items the same address, identified by A=0-9 and PL=1-9. The user can create, cancel, or modify the scenarios found in the scenario module, 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

0 675 92 H4652
LN4652

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/I; ↑↓; ↑↓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/I
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).

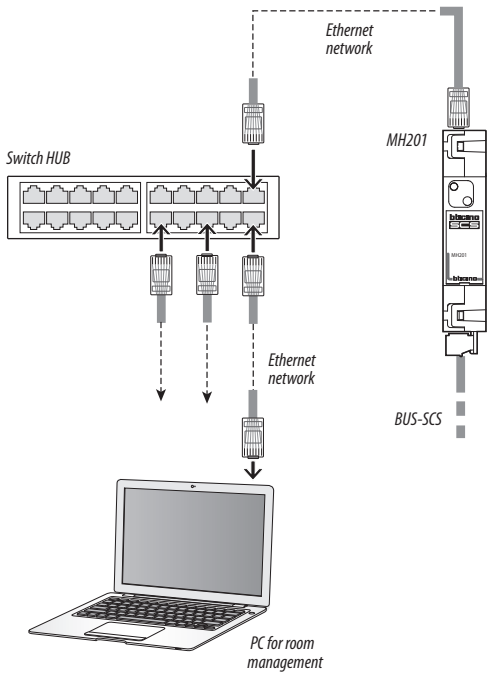
LED configurator
Setting the backlight intensity
The configurator in the LED socket gives the possibility of setting the backlight at the desired level; see table:

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.



MM00778-a-EN 16/09/2013

IP scenario module BUS-SCS

MH201

Description

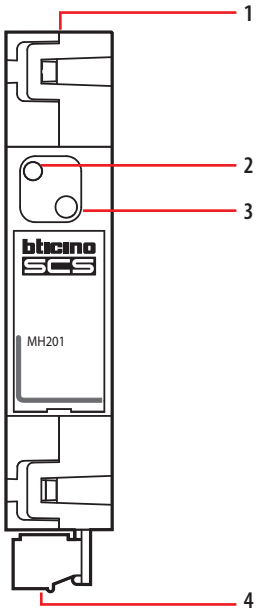
The IP scenario module is a device of the Hotel range for the management of the room and the common areas.
One MH201 must be used for each room or common area.
For systems with over 100 rooms, or common areas, the IP Server F458 device must also be used.

It's main functions are:

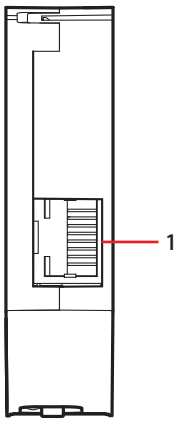
- **Key card management:**
  1) **room access management (key cards saved)**. Using the supervision software, it is possible to manage the saving of the key cards (if the external reader is present) used for opening the door with two different profiles (Users or Service). For each key card saved, it 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.

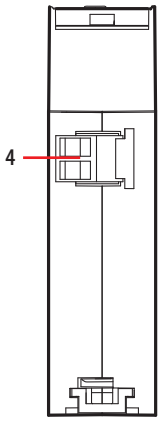
Front view



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

MH201

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)

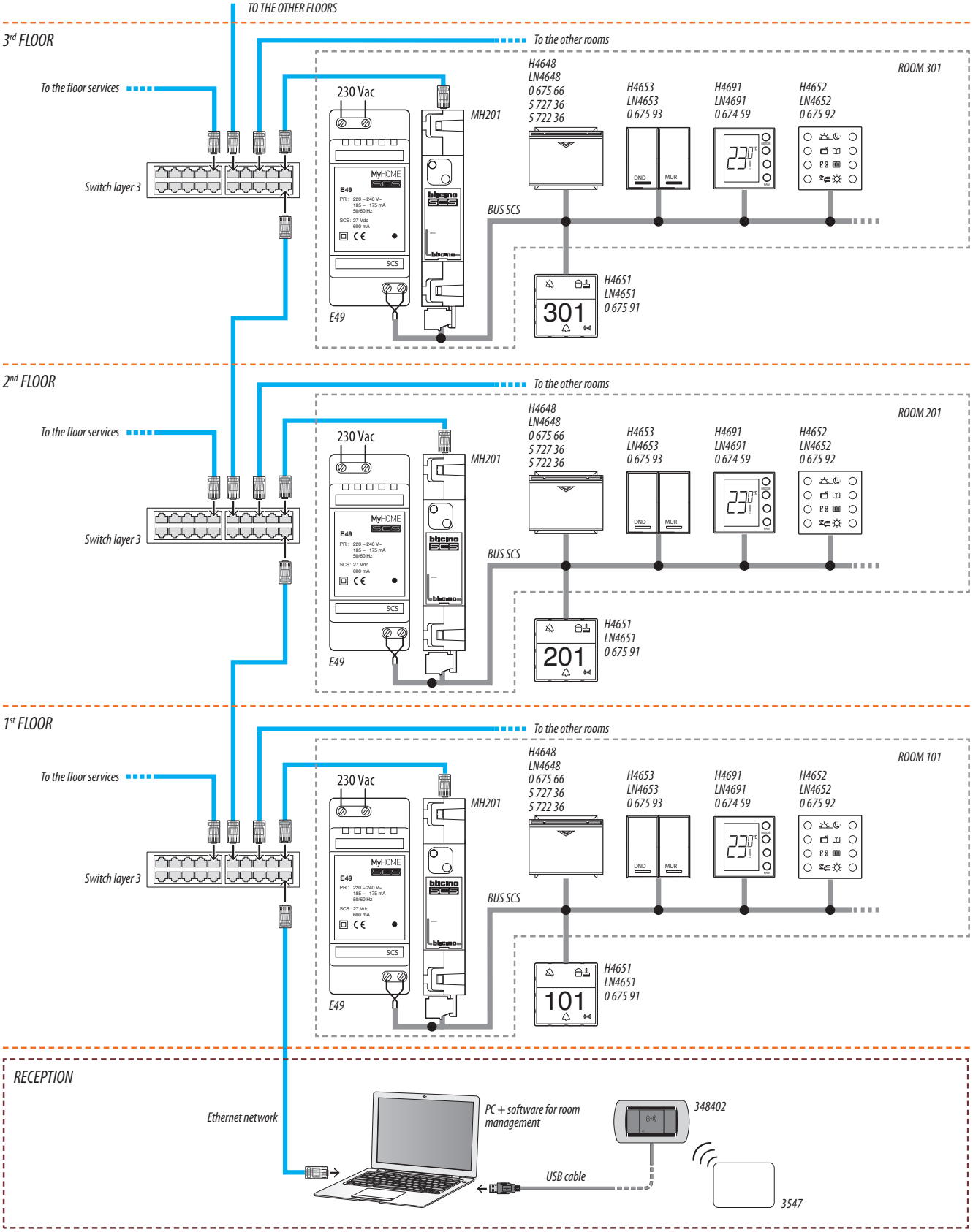
Putting into operation

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)

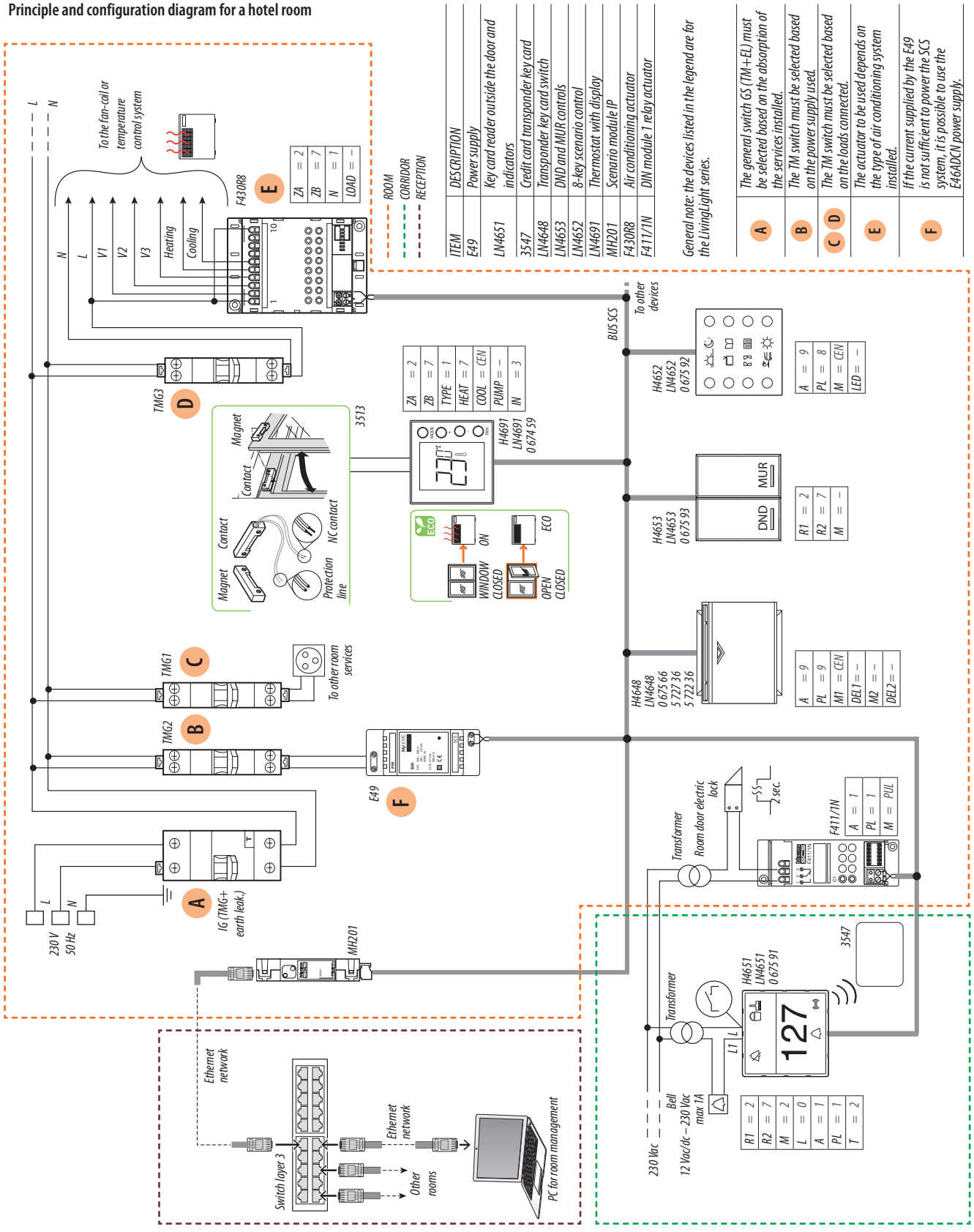


IP scenario module
BUS SCS

MH201

Wiring diagrams

Principle and configuration diagram for a hotel room



Scenario module

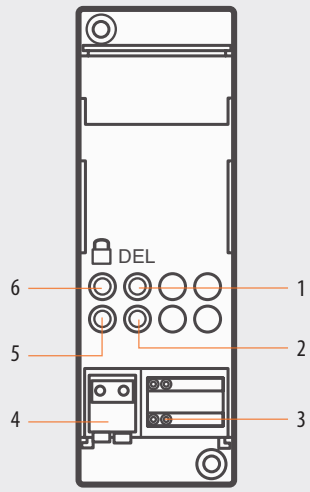
F420

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



Front view

Legend

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

Scenario module F420

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.

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 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 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

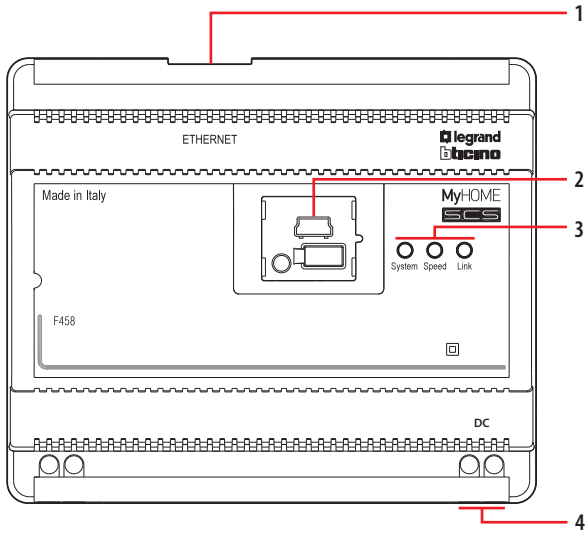
Dimensional data

Size: 6 DIN modules

Configuration

The device must be configured using the "MyHOME_Suite" software.

Front view



Legend

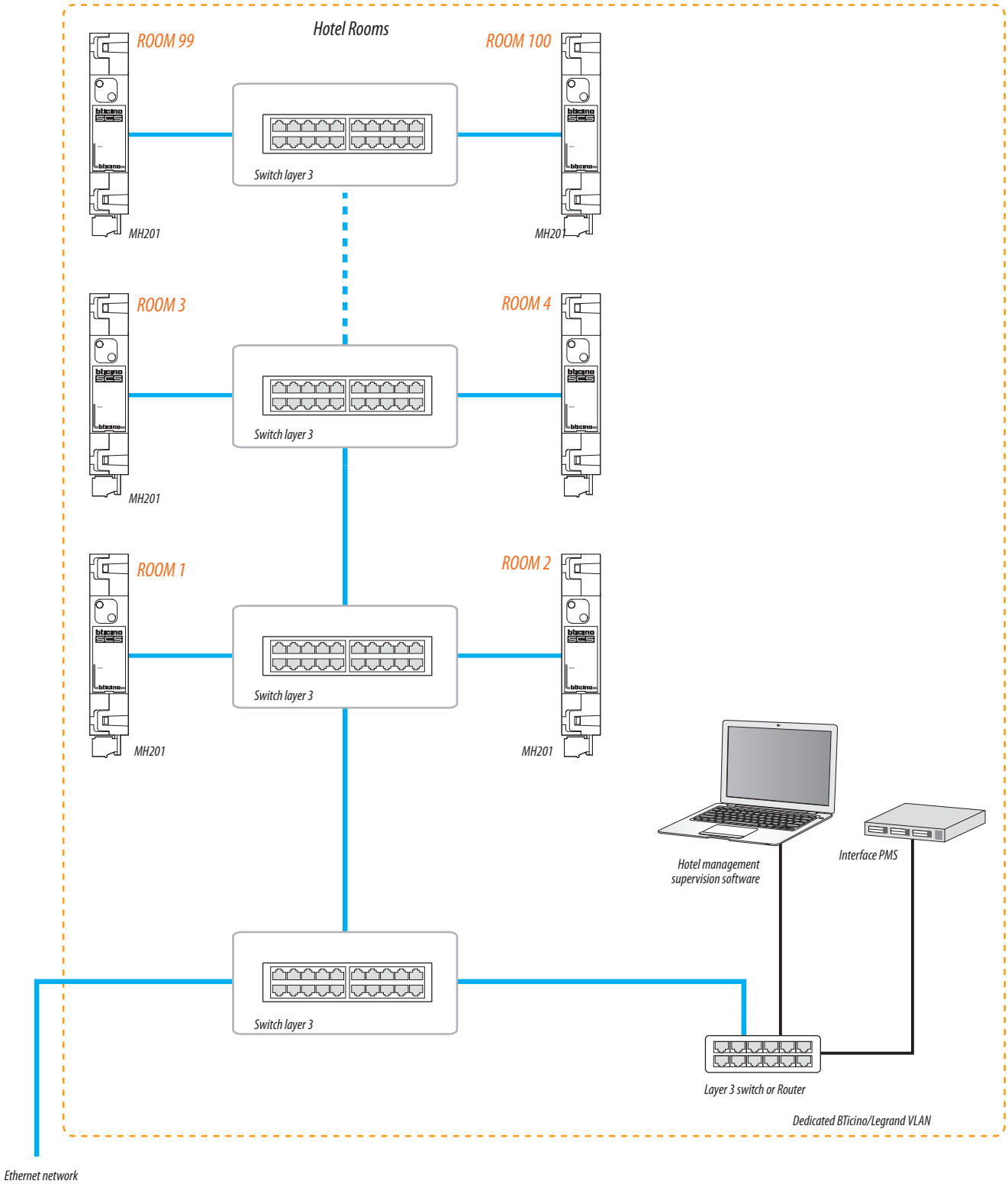
1. RJ45 connector for Ethernet LAN 10/100 Mbit
2. Mini-USB connector for the configuration using the PC and software update
3. LED notifications
   - System LED: it comes on when connecting the power supply, and then it goes off. When it later comes back on steady, it means that the device is working 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)

BUS-SCS server IP

F458

Wiring diagrams

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

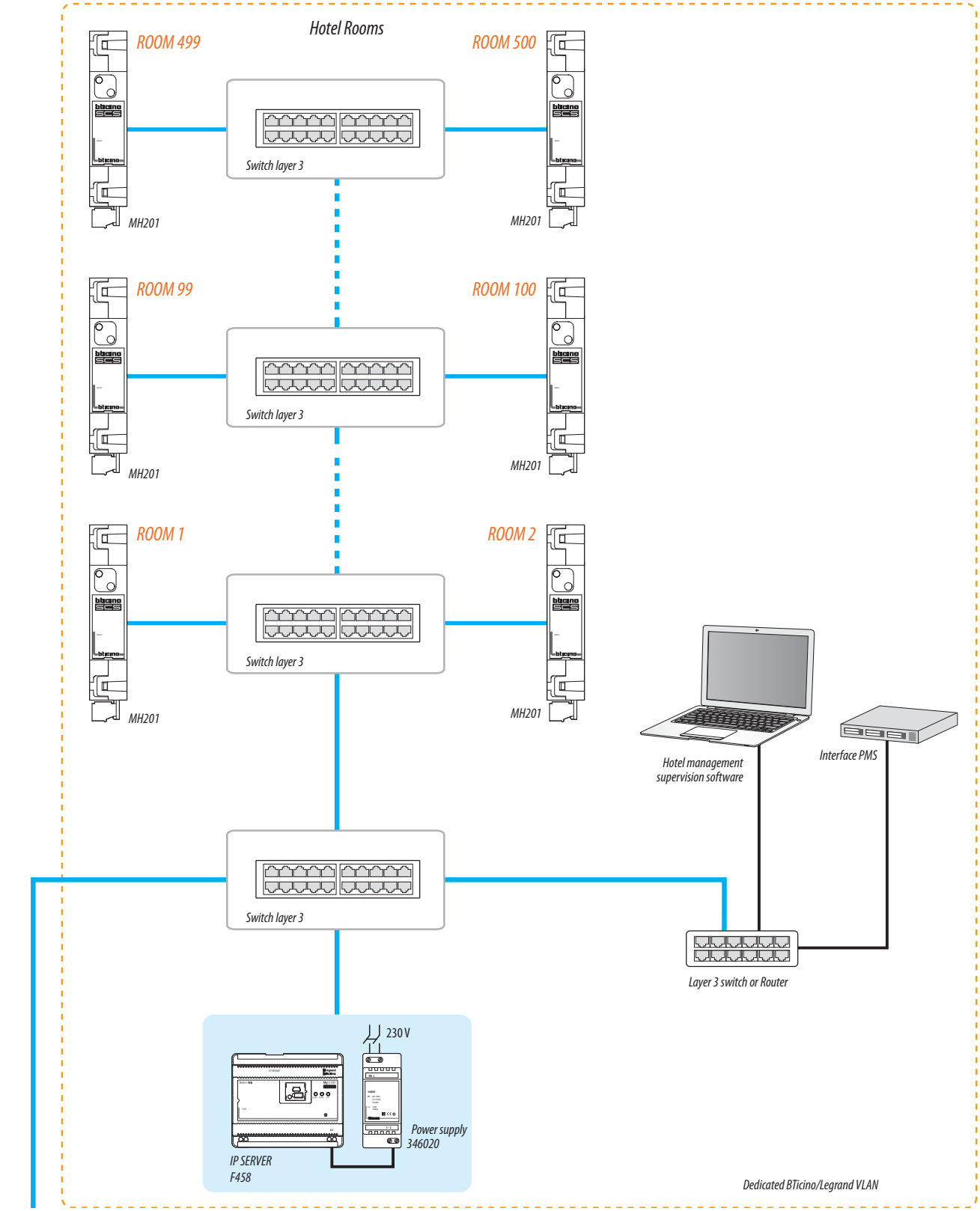


BUS-SCS server IP

F458

Wiring diagrams

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

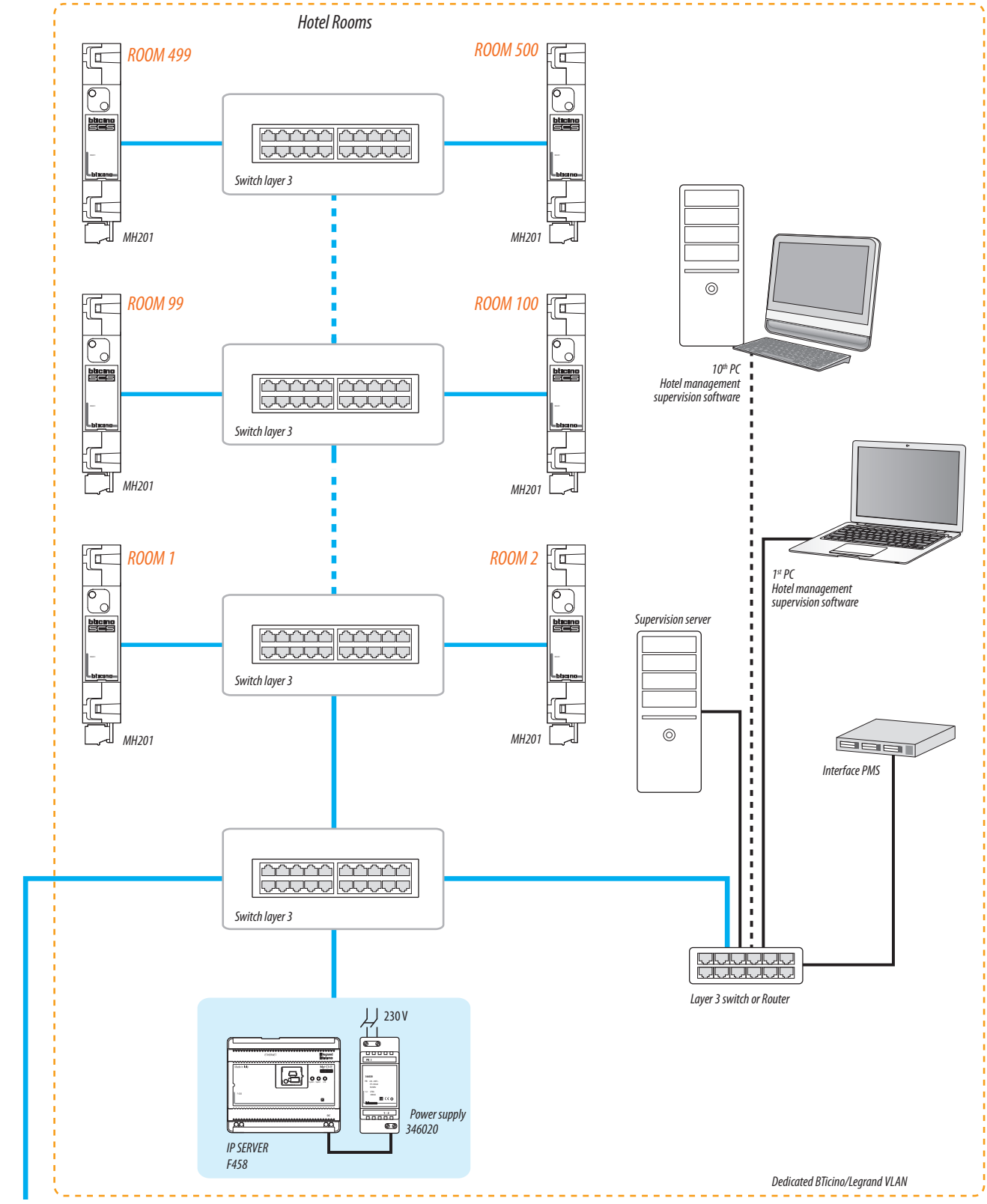


BUS-SCS server IP

F458

Wiring diagrams

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



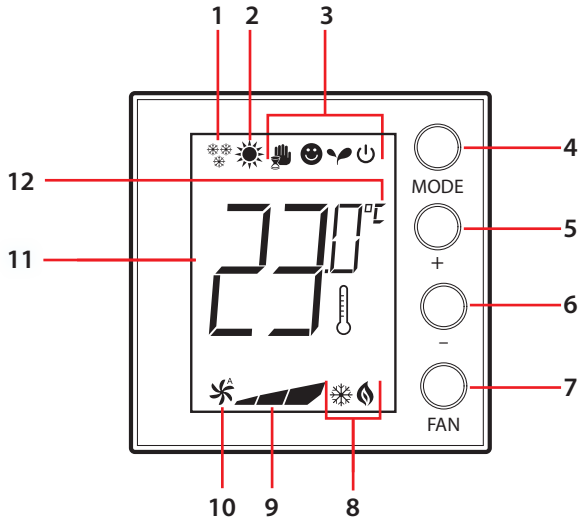
Thermostat with display

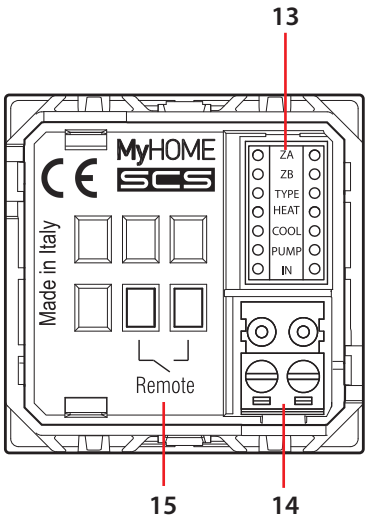
H4691 067459
LN4691 64170

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 (1)	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 (2)	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 (3)	1
Pump with N= 2 For cooling	2
Pump with N= 1 For heating + pump with N= 2 For cooling (3)	3
Pump with N= 1 For both heating and cooling (3)	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 (4)	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.

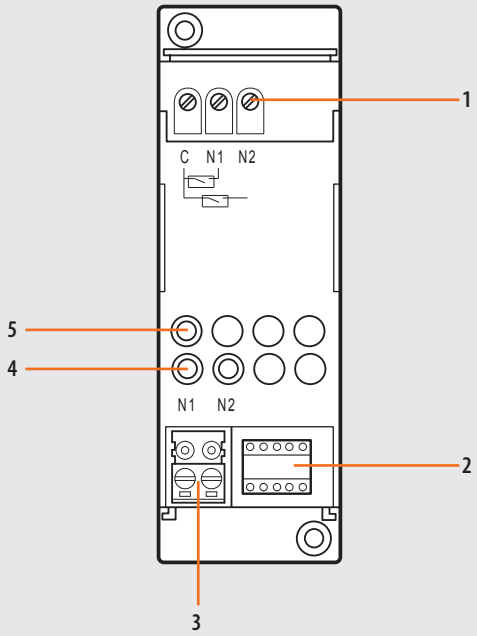
Note (*): - software downloadable from the website: www.homesystems-legrandgroup.com
- the functions are available from version 1.3.

DIN module contact interface

F428

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

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

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; 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.

List of functions

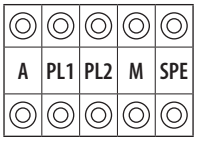
The device create the following functions:
1. LIGHT CONTROL
2. AUTOMATION CONTROL
3. LOCK/UNLOCK OF DEVICES
4. SCENARIO MODULE CONTROL
5. PROGRAMMED SCENARIO ACTIVATION
6. PLUS LIGHTING MANAGEMENT SCENARIO ACTIVATION
7. PLUS PROGRAMMED SCENARIO ACTIVATION
8. SOUND SYSTEM CONTROL

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		SPE=0, M=0
ON		SPE=0, M=ON
OFF		SPE=0, M=OFF
Cyclical (only NO contact)		SPE=1, M=7
Pushbutton		SPE=0, M=PUL
ON with key in N2, OFF with key in N1		SPE=0, M=O/I
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

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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 N2, OFF with button in N1 and DIMMER when held down	SPE=0, M=0/I
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

DIN module contact interface

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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

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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

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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 N1 and N2 clamps	Normally Open (NO)	SPE=0
	Normally Closed (NC)	SPE=7
Scenario activation and modification		
Scenario No.	1-16	SPE=6[1], M=1-8
Scenario activation		
Scenario No.	1-16	SPE=4[2], 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

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 PL2=0 follow me, PL2=1-4 source
	NO	

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

DIN module contact interface

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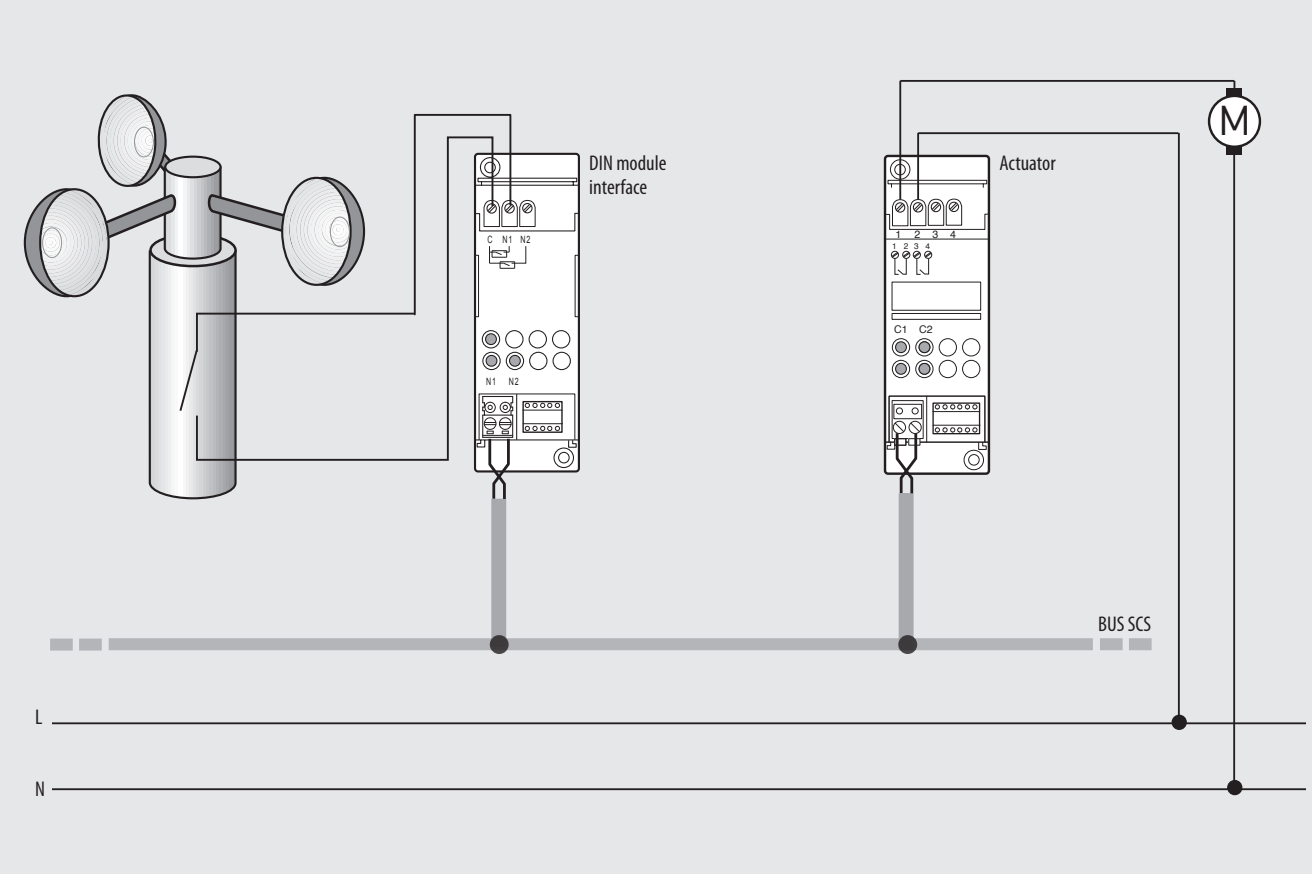
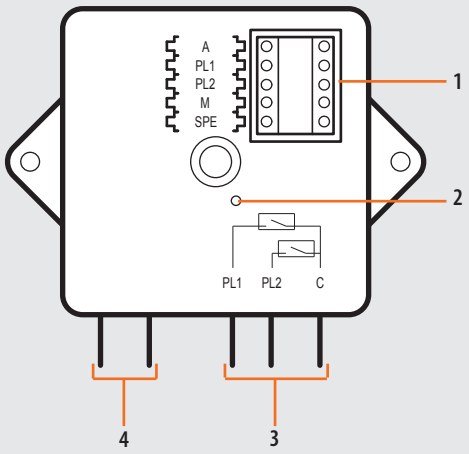
Wiring diagram



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.).



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

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; 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.

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.

Basic contact interface 3477

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). By installing the control on the BUS of an interface (installation level), you can control one or more actuators located on the BUS of another interface (destination level).

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

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
Cyclical		SPE=0, M=0
ON		SPE=0, M=ON
OFF		SPE=0, M=OFF
Cyclical (only NO contact)		SPE=1, M=7
Pushbutton		SPE=0, M=PUL
ON with key in PL2, OFF with key in PL1		SPE=0, M=O/I
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 3477

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/I
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). By installing the control on the BUS of an interface (installation level), you can control one or more actuators located on the BUS of another interface (destination level).

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 3477

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[1)], M=1-8
Scenario activation		
Scenario No.	1-16	SPE=4[2)], M=1-8

For flashing with a period of from 5.5 to 8 seconds, use MyHOME_Suite virtual configuration

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).

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).

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.

Basic contact interface 3477

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 3477

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 [1)]

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

Basic contact interface 3477

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

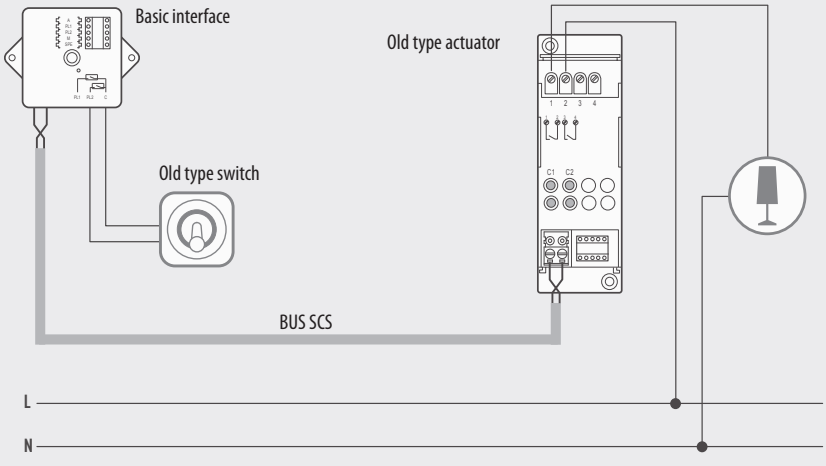
N1 contact: source cycling
N2 contact: track cycling

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



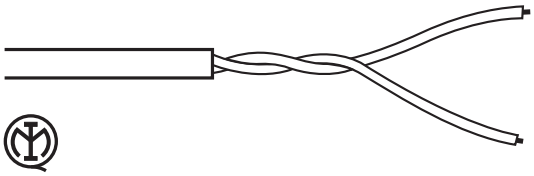
SCS/BUS cable (grey)

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 mm2, 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 mmq (12 x 0.20 mmq)
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 otained:

Installation notes

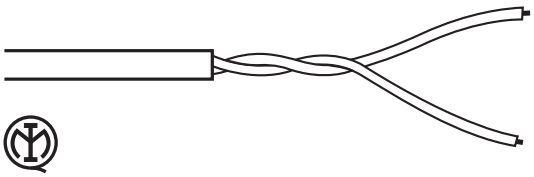
Although on a construction point of view the grey cable guarantees 300/500 V category electrical insulation, the correct operation of the devices is not guaranteed in the following cases when installed together with the energy cables:
- industrial environments,
- in residential/service sector environments, 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 mm2 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 mmq (16 x 0.20 mmq)
Operating temperature: (-15) – (+70) °C
Coil length: 200 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 otained:

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.

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 mm2 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.

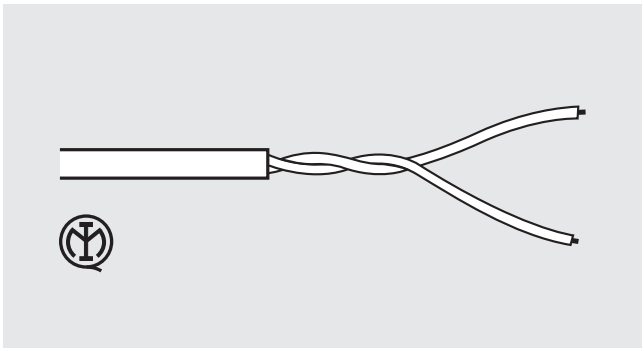
Technical data

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 mmq (7 x 0.308 mmq)
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 otained:



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.

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