

GUEST ROOM MANAGEMENT SYSTEM



INTEGRATED
SOLUTION



DESIGN AND INSTALLATION GUIDE

THE GLOBAL SPECIALIST
IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES





ROOM CONTROLLER KNX

GUEST ROOM MANAGEMENT SYSTEM

A complete offer
that meets all kinds
of requirements

Legrand offers a specific system solution for each requirement. Designed to guarantee the best welcoming and control service without overlooking the environment, 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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HC4915MR	48	L4658KNX	55		
HC4921BL	48	L4680KNX	49		
HC4921DD	48	L4915DD	54		
HC4921M2BL	48	L4915M2DD	54		
HC4921MR	48	L4915MR	54		
HD4033	48	L4915SETBL	54		
HD4177	48	L4915TN	54		
HD4285C	48	LN4548	54		
HD4285C2	48	LN4549	54		
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A SOLUTION FOR HOTELS

**Specific products
and systems for
the various areas**

GUEST ROOM MANAGEMENT

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

SUPERVISION OF THE HOTEL FROM THE RECEPTION USING SPECIFIC SOFTWARE

INTEGRATION WITH SOLUTIONS AND SYSTEMS OF OTHER BRANDS



Legrand offers all the technological solutions for the hotel sector

01 INSIDE THE ROOM



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

02 IN THE COMMON AREAS FOR CUSTOMERS



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

03 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.)
- Management of bookings using specific software (PMS)

04 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
- Lighting control
- Automation management

THE FUNCTIONS IN THE ROOM

UP TO
30%
SAVINGS

**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.

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.



4 keys control
(LEGRAND - ARTEOR)

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.

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.



Key card switch
(BTICINO - LIVINGLIGHT)

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
(BTICINO - LIVINGLIGHT)

USB charger socket
(BTICINO - LIVINGLIGHT)



Step marker lamps
(BTICINO - LIVINGLIGHT)



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



4 key control
(LEGRAND - ARTEOR)



Temperature control panel
(LEGRAND - ARTEOR)

UP TO
30%
SAVINGS



4 keys control (LEGRAND - ARTEOR)

Immediate comfort

Thanks to the new KNX devices

- 4 or 6 keys 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.

Supervision and Management of HOTEL ROOMS with ROOM CONTROLLER

For optimum supervision with complete simplicity, Legrand offers "Legrand supervision software" (LSS) which allows you to view and control the whole of a building very easily: the management of Legrand solutions is pre-configured; screens are generated automatically.

The **Room controller** with the KNX protocol is not only the heart of the hotel room, but also offers a totally integrated system to manage and supervision the hotel structure. In the room it manages the temperature, lighting, automatic devices (blinds, shutters,...) and supplies all the services in the room, even measuring the energy. In the room we can control ON-OFF or dimmerable lamps, both for halogen, fluorescent and LED lamps or with DALI technology. The Room controller supplies the individual room and also controls all the types of load installed in it.

Improved service and comfort

The Legrand room controller can be the interface between the bms and the hotel's pms. this integration allows the staff to monitor guest room status and to adapt room settings depending on the guests' requests in order to provide the highest levels of comfort and energy saving.



Guest Room Supervision



Building Management System

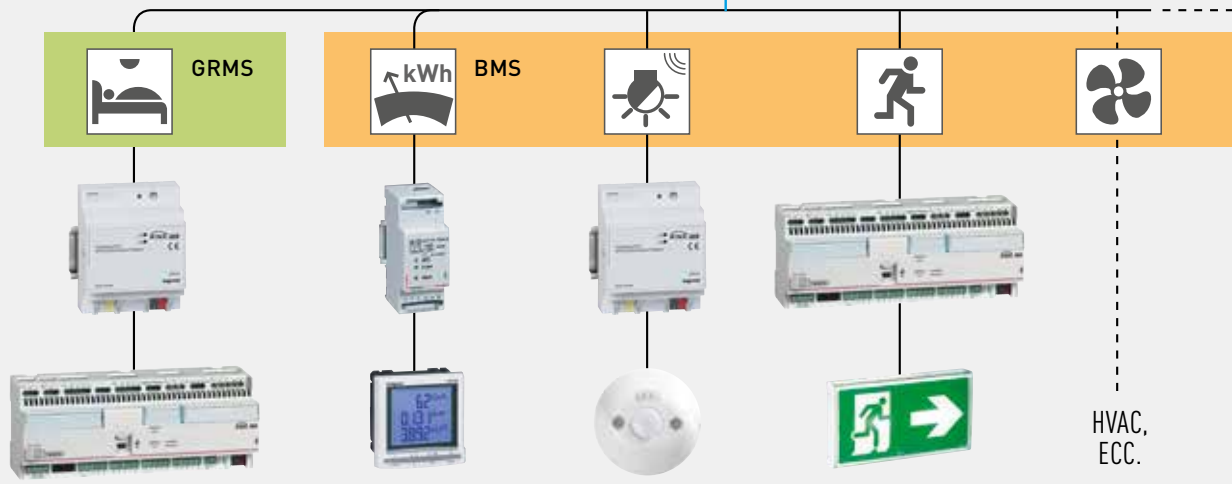
MONITORING SYSTEM FOR THE BUILDING

This software tool is a combination between guestroom management and building management systems. This solution provides friendly user interface to manage rooms status (occupancy, thermoregulation, services, ...) but also to manage all other applications in the hotel: energy consumption, lighting in common areas, security, HVAC, ... Based on LEGRAND systems, this application is very easy to implement due to its "Ready-to-Use" and stay open to be customized and to integrate all third-party systems through "Expert" mode providing maximum flexibility to respond to any changes in the building use.



Room controller device

LEGRAND
SUPERVISION
SOFTWARE



THE MAIN SYSTEM COMPONENTS KNX SOLUTION



ROOM CONTROLLERS

These modular controllers with integrated consumption measurement are fitted with output contacts for controlling:

- all types of ON/OFF load (lighting, roller shutters, contactors, motors, etc.)
- a DALI dimming output (64 ballasts max.)
- an on-board energy meter

Loads are managed by the control units to which they are linked: either BUS/KNX control units, or wired connection input terminals (switches, push-buttons, voltage free contacts). They also provide a wide range of functions: ON/OFF or dimming lighting control, DALI, roller shutter and ventilation control.

ROOM CONTROLLERS



These DIN controllers offer the possibility of controlling several circuits (voltage free contacts included) within a reduced space, and include embedded automation: an ideal solution for hotel room management!

Installed in a modular cabinet, they are the ideal solution for small spaces (bedrooms, conference rooms, offices).

Available two controller device:

0 484 18

- 8 Inputs
- 10 outputs
- 8 DIN module

0 484 22

- 16 Inputs
- 16 outputs
- 12 DIN module



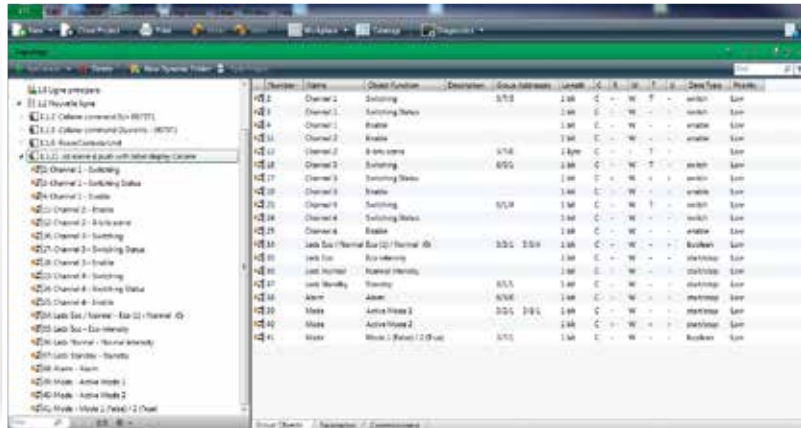
CONFIGURATION SOFTWARE

ETS5 Solution

A standardised non-proprietary programming tool available in 15 languages, ETS5 software supports all KNX installations, whatever the medium used: twisted pair, radio frequency, Ethernet/IP, power line carrier. It makes it easy to program control all the KNX devices.

A configuration system accessible in three steps:

1. Acquire the ETS5 software from the KNX association.
2. Download the Legrand database from www.legrandoc.com.
3. Import all the products into ETS5.



SOLUTION LEGRAND

Configuration

As a complement to the ETS5 system, KNX detectors offer the possibility of local configuration.

This mobile configurator is used to interrogate, display and modify the detector parameters:

- light level threshold
- delay
- detection sensitivity

Note: parameters can be saved and then copied to other detectors.



Cat. No. 0 882 30

THE MOBILE CONFIGURATOR:
AN ASSET FOR COMMISSIONING
AND MAINTENANCE

SUPERVISION SOFTWARE

Building Energy Management System

This solution being based on a powerful SCADA engine consistent with standard protocols as KNX, BACnet, modbus, OPC and ethernet TCP/IP, an « Expert » mode allows to customize any screens and allows to integrate any third-party systems to make the dashborad responding to any specific needs.



Guest Room Supervision



Building Management System



Customisable screens, with equipment shown on a plan

VIEW, CONTROL, RECEIVE ALERTS



LIGHTING

Management of operating modes (comfort, eco, etc.) according to the premises' occupation periods, display of lighting times, etc.



EMERGENCY LIGHTING

Display on a plan of the location of lighting units



MEASUREMENT

Water and gas consumption display for the whole building



HVAC

Temperature adjustment, ventilation, etc. Display of diagrams for monitoring



ACCESS CONTROL

Monitoring of building activity

This solution being based on a powerful SCADA engine consistent with standard protocols as KNX, BACnet, modbus, OPC and ethernet TCP/IP, an "Expert" mode allows to customize any screens and allows to integrate any third-party systems to make the dashborad responding to any specific needs.



INTERACT

Building manager decision maker PLC
Cat. No. 0 035 44

Application examples:

- automatic change to the right temperature depending on whether or not people are present
- supply to power sockets as soon as someone enters an office suite

THE OTHER ROOM PRODUCTS

The Legrand BUS/KNX control unit manages lighting (ON/OFF, dimming, scenes, forcing), roller shutters (raise/lower/stop), awnings, and other client devices. A core business for Legrand, control is enhanced with multiple possibilities: lighting comfort, environment scenarios, combinations of multiple functions, etc. Discover the Legrand BUS/KNX offer, combining performance, aesthetics, and comfort, for a full and optimised response to your customers' needs.



MANUAL CONTROL UNITS

One offer, more designs

Combining performance with aesthetics, control units are available in more decorative ranges.



ARTEOR



AXOLUTE



LIVINGLIGHT

“
Really clever,
infinitely
stylish!”

All technical informations
are available at

www.legrandoc.com

Inside the room



Temperature control panel
(LEGRAND - ARTEOR)



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



4 channels control unit
with label display
(LEGRAND - ARTEOR)



Media HUB
(LEGRAND - ARTEOR)



Key card switch
(BTICINO - AXOLUTE)



4 or 6 button glass plate,
White or Black

At the room switchboard - inside the room



Room controller
(0 484 18 - 8 DIN or
0 484 22 - 12 DIN)



Power supply
for only room
controller



Controller for loads
(lights, shutter, FCU, ...)

Customisation



Arteor

For in-room comfort and entertainment.



Temperature control panel completed with the **Arteor** square cover plate



Touch control unit

of the **offer** into the hotel



Axolute and Axolute Air

Several shapes and materials to conceive and design your Hotel.



Temperature control panel 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**.



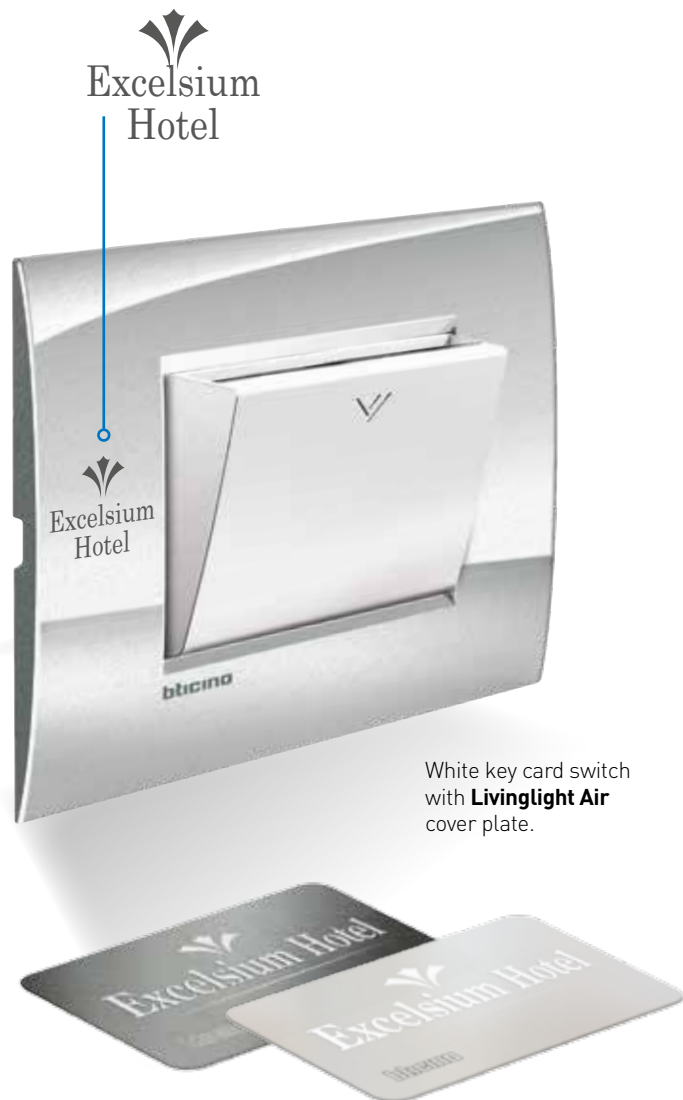
Livinglight and Livinglight Air

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



CUSTOMISATION OF COVER PLATES AND KEY CARDS

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.



Temperature control panel used with the **Arteor** 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.

CUSTOMISATION OF GLASS CONTROLS

Arteor



White

Black



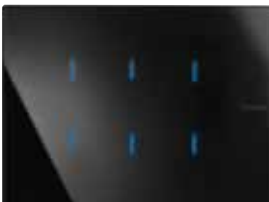
Axolute



White

White

Nighter



The glass controls can be customised with symbols





Contents

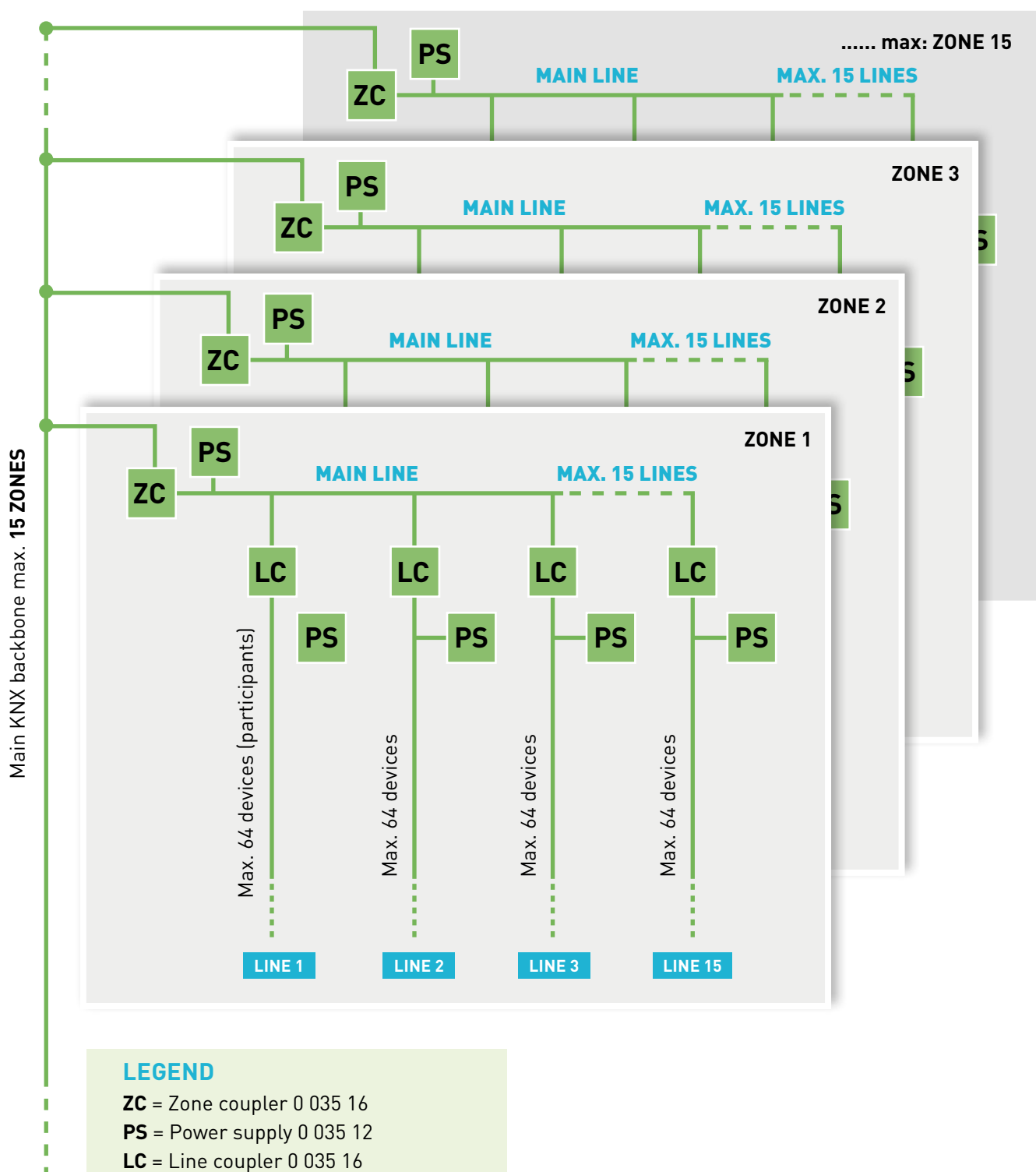
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KNX standard architecture

System performances

The diagram below shows the typical structure of a generic KNX system.

- max. 15 ZONES
- each zone max. 15 LINES
- each line max 64 devices (participants)
- it is possible to install up to a max. of 14.400 devices in every single KNX system



Cable to be used

The KNX BUS must be supplied with a voltage of 29 V_±. The data which form the “KNX “message” are transmitted in differential series mode, at a transmission speed of 9600 bit/s.

Use a 1-pair wire (2 x 0.8 mm)

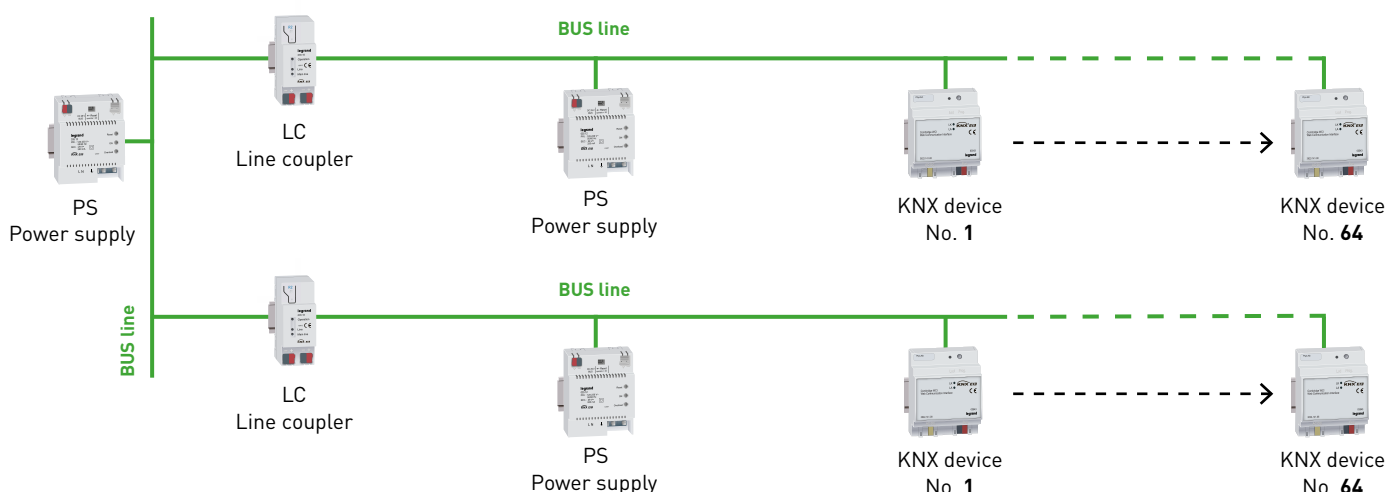


Maximum distances

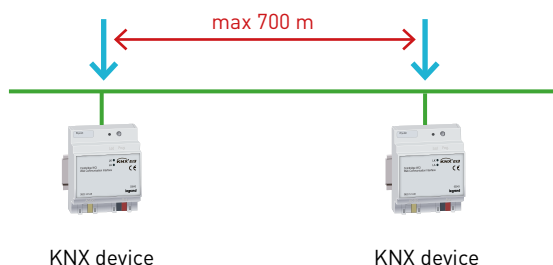
- Max. length of the BUS: 1000 m
- Line end impedances are not necessary
- Max. distance between 2 products: 700 m
- Max. distance between a product and the KNX power supply: 350 m

Max. length of the single line: 1000 metres

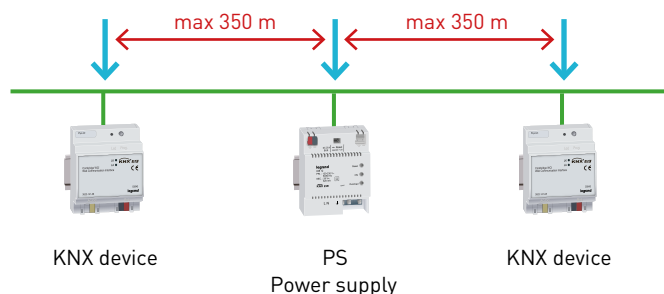
Max. number of devices on the single line: 64



Max. distance between 2 devices: 700 metres



Max. distance between a device and the power supply: 350 metres



MORE INFORMATION

Get detailed information on KNX system request and view the technical guide KNX.



Architecture of an hotel system - only KNX

BUS/KNX



MORE THAN 64 PARTECIPANTS YOU ADD COUPLER AND POWER SUPPLY

LINE 1

MAX 64 DEVICES (PARTECIPANTS)

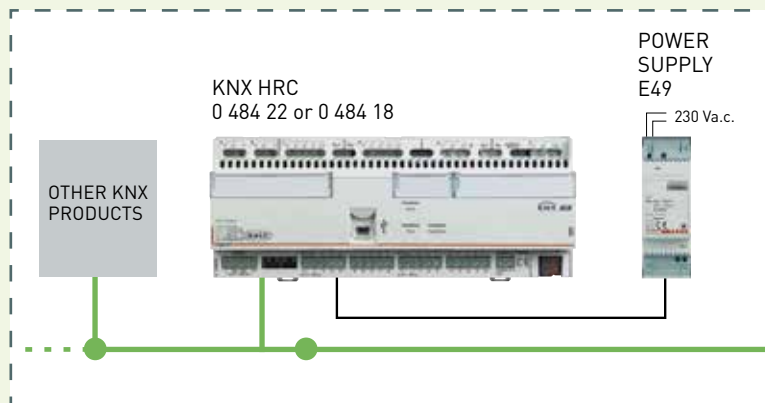
KNX BUS POWER SUPPLY
0 035 12 (320 mA)
0 026 94 (640 mA)



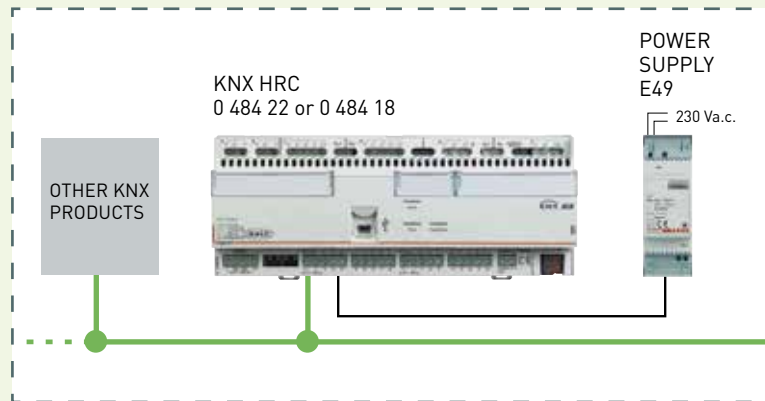
230 Va.c.

FLOOR 1ST

ROOM 101



ROOM 102



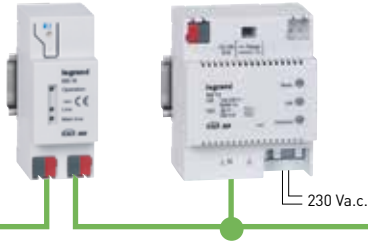
MAX 64 DEVICES (PARTECIPANTS)

.... ROOM 164

.....➔ **MAX 15 LINES**

COUPLER
0 035 16

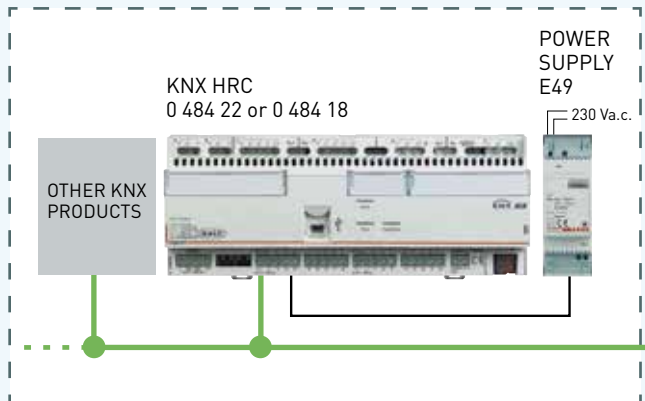
KNX BUS
POWER SUPPLY
0 035 12 (320 mA)
0 026 94 (640 mA)



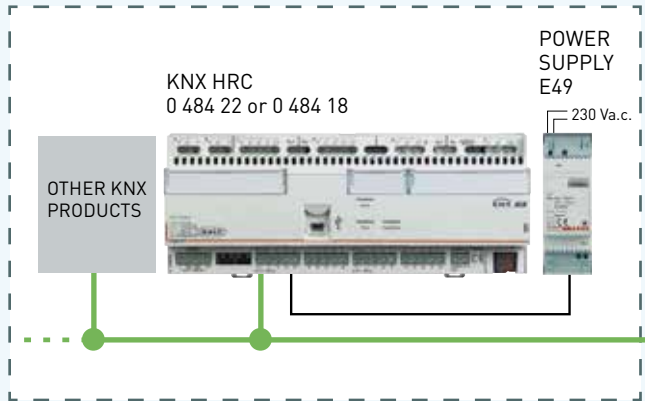
LINE 2
MAX 64 DEVICES
(PARTECIPANTS)

FLOOR 2ND

ROOM 201



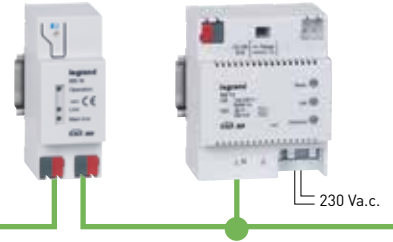
ROOM 202



.....
MAX 64 DEVICES
(PARTECIPANTS)
.....
.... ROOM 264

COUPLER
0 035 16

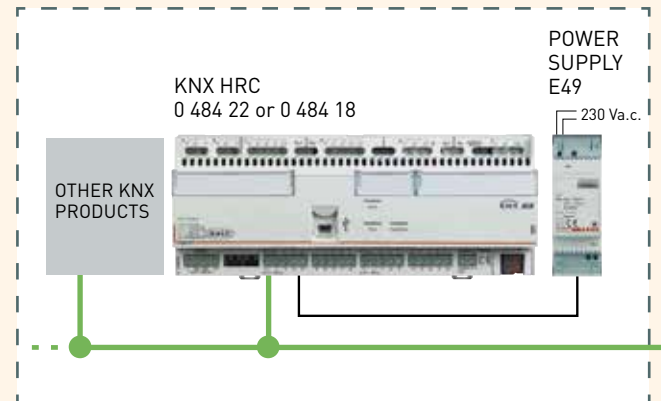
KNX BUS
POWER SUPPLY
0 035 12 (320 mA)
0 026 94 (640 mA)



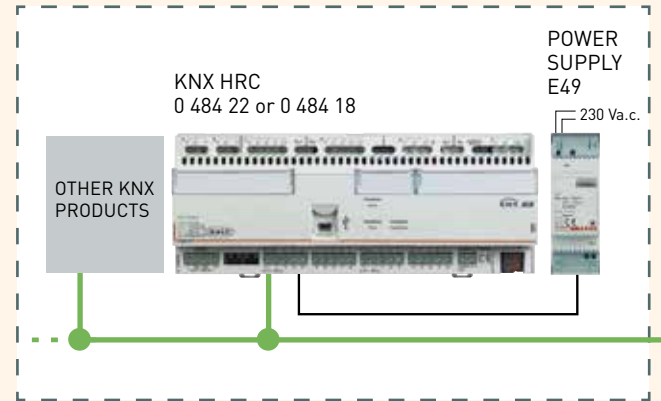
LINE 3
MAX 64 DEVICES
(PARTECIPANTS)

FLOOR 3RD

ROOM 301

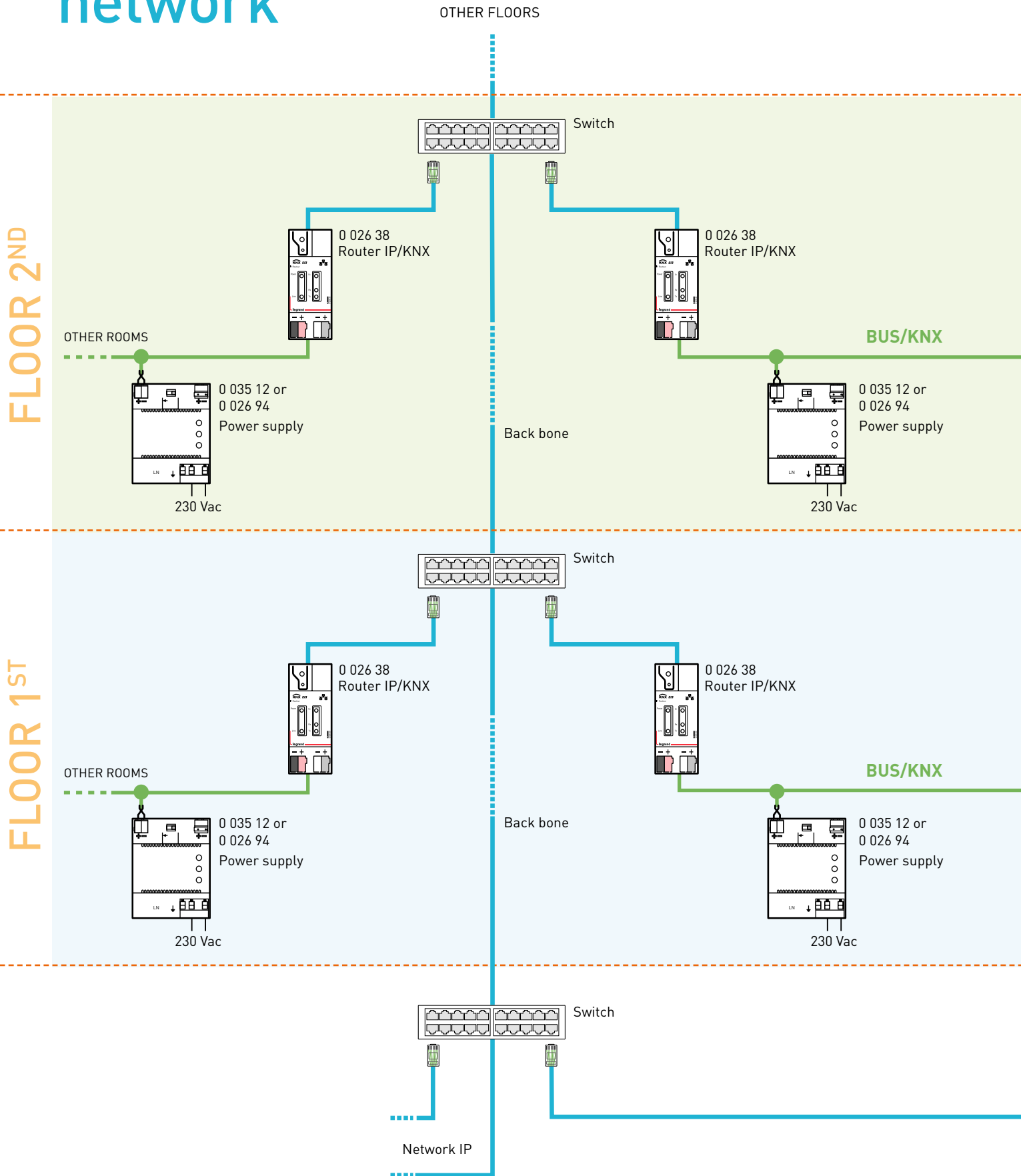


ROOM 302



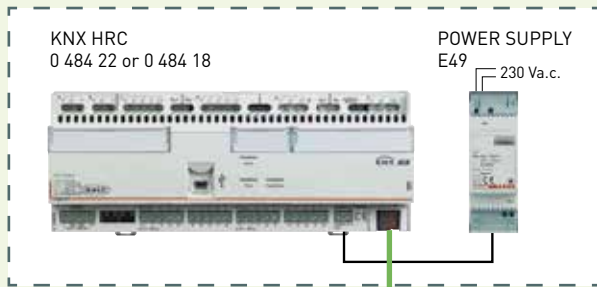
.....
MAX 64 DEVICES
(PARTECIPANTS)
.....
.... ROOM 364

Typical wiring diagram of the hotel network

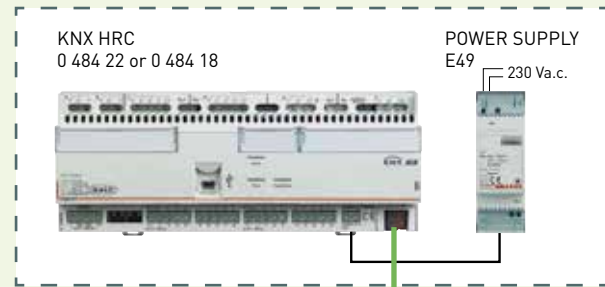


digital infrastructure - IP and KNX

ROOM 201



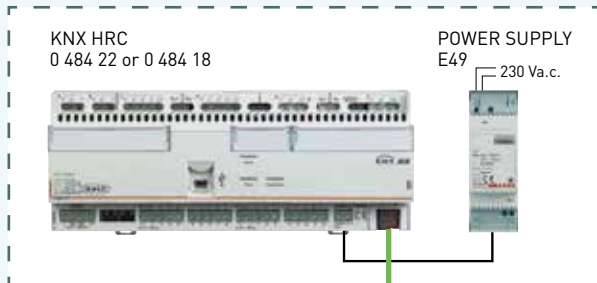
ROOM 202



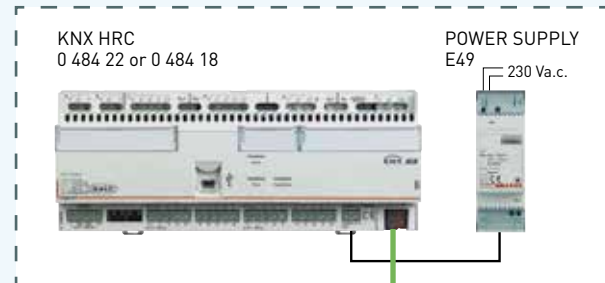
OTHER ROOMS

FLOOR 2ND

ROOM 101



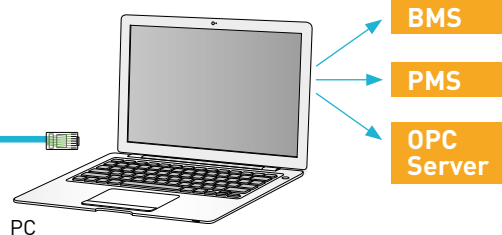
ROOM 102



OTHER ROOMS

FLOOR 1ST

MONITORING ROOM



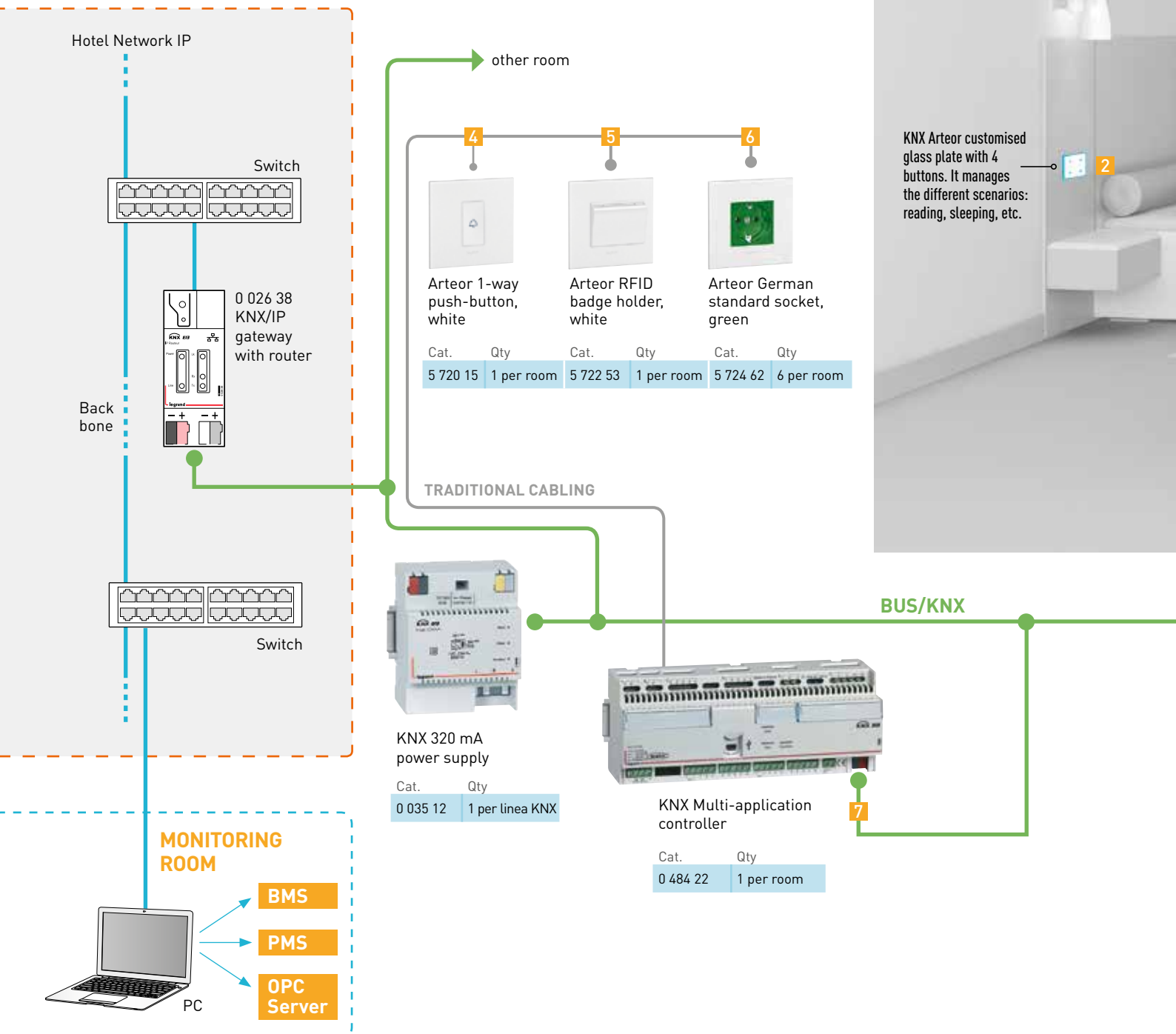
Typical Hotel guest room

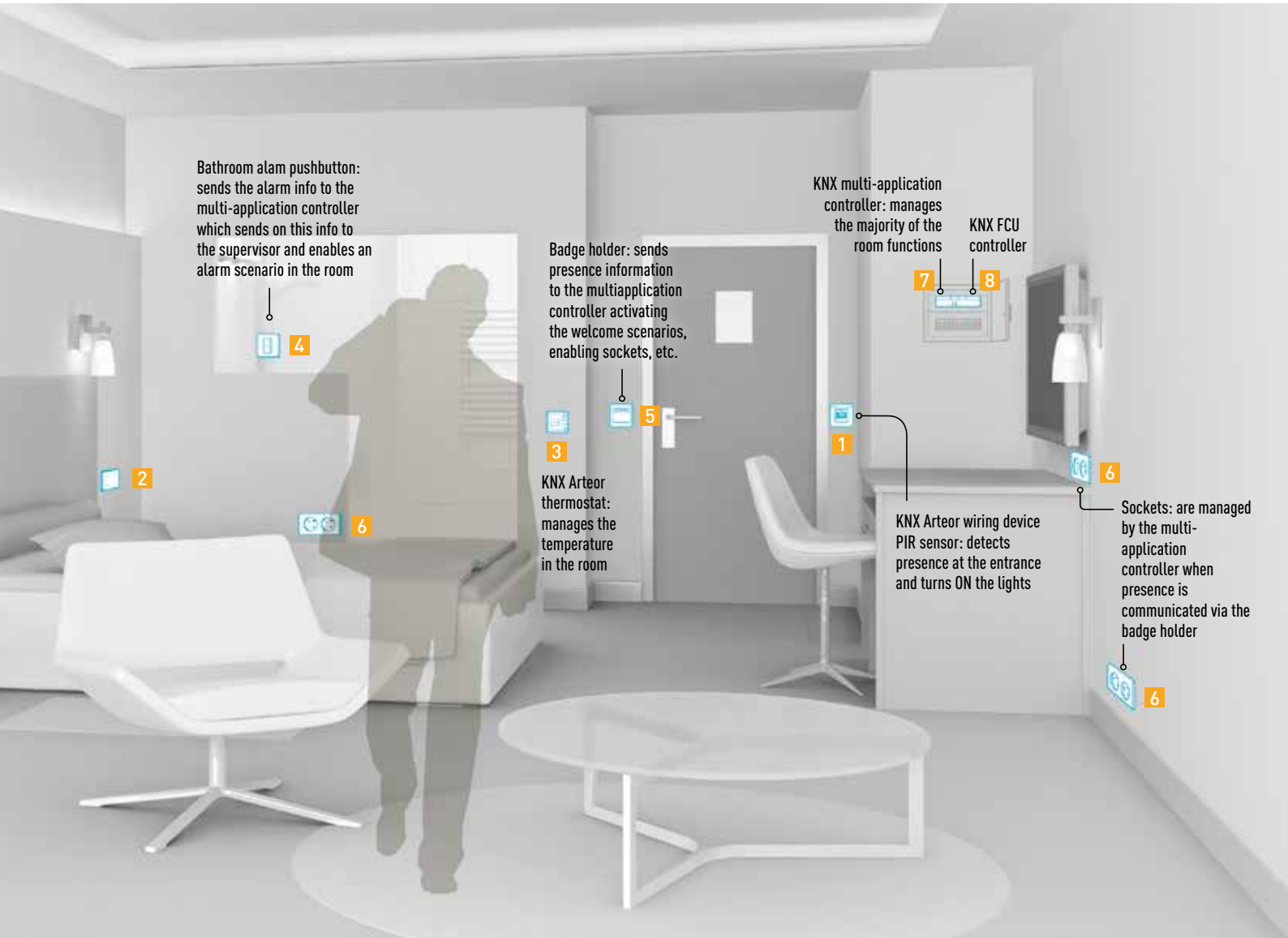
- Presence detection
- Temperature management
- Socket management
- Scenarios

In a hotel room there is the need to manage everything when the customer is present: lighting, sockets, HVAC. When the customer enters the room the entrance lights are automatically turned ON and when he puts the badge in the holder the HVAC and the sockets are also enabled. The customer is able to manage everything through the different control units, choosing the conditions he prefers according to his mood or needs.



KNX Arteor customised glass plate with 4 buttons. It manages the different scenarios: reading, sleeping, etc.





Bathroom alarm pushbutton: sends the alarm info to the multi-application controller which sends on this info to the supervisor and enables an alarm scenario in the room

Badge holder: sends presence information to the multiapplication controller activating the welcome scenarios, enabling sockets, etc.

KNX multi-application controller: manages the majority of the room functions

KNX FCU controller

KNX Arteor thermostat: manages the temperature in the room

KNX Arteor wiring device PIR sensor: detects presence at the entrance and turns ON the lights

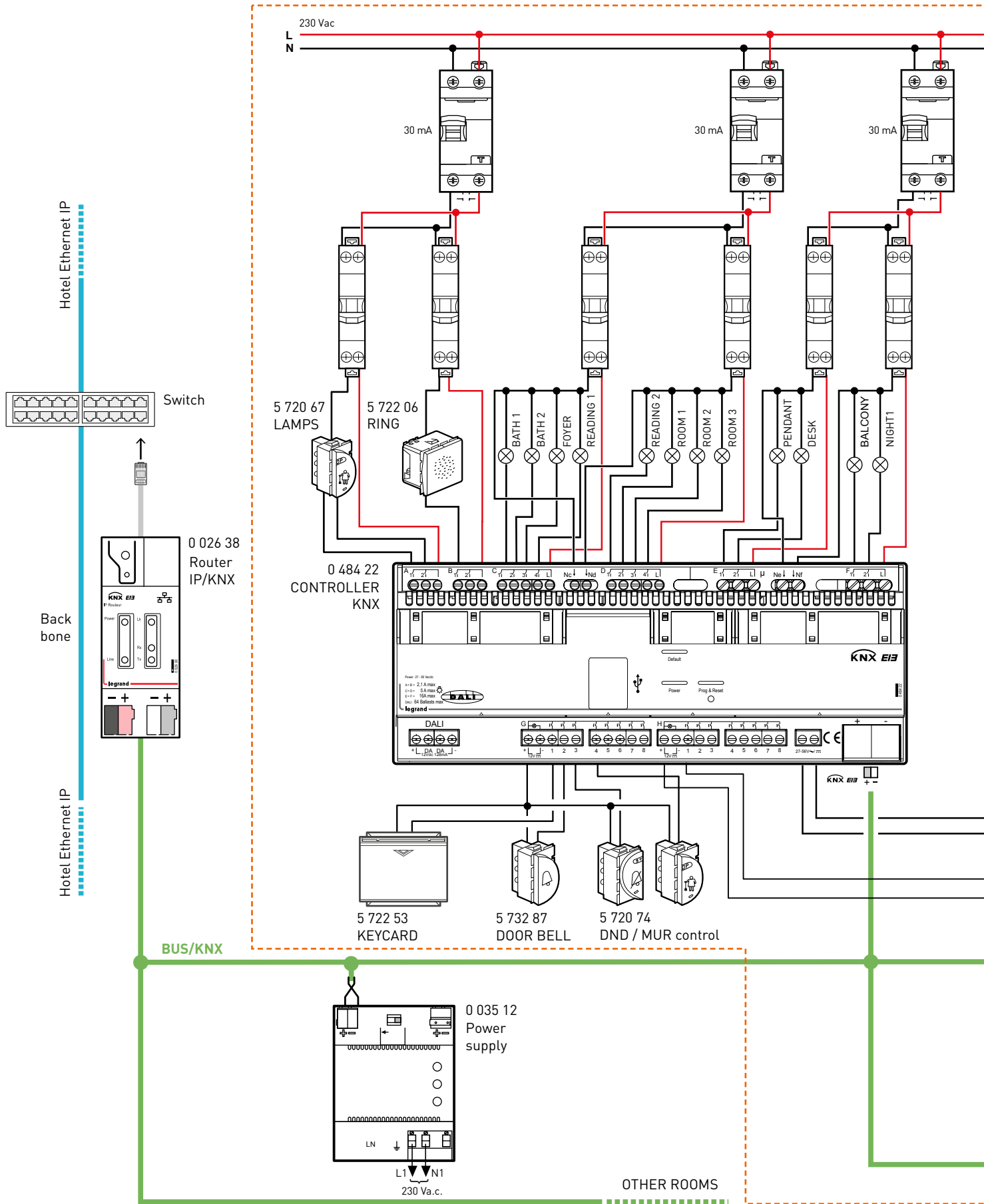
Sockets: are managed by the multi-application controller when presence is communicated via the badge holder

1	2	3	8	other KNX device in the room
				
KNX Arteor PIR wiring device sensor	KNX Arteor 4-button glass plate, white	KNX Arteor temperature control panel	KNX FCU controller	

Cat.	Qty	Cat.	Qty	Cat.	Qty	Cat.	Qty
5 740 37	1 per room	5 735 04	2 per room	0 674 64	1 per room	0 026 97*	1 per room

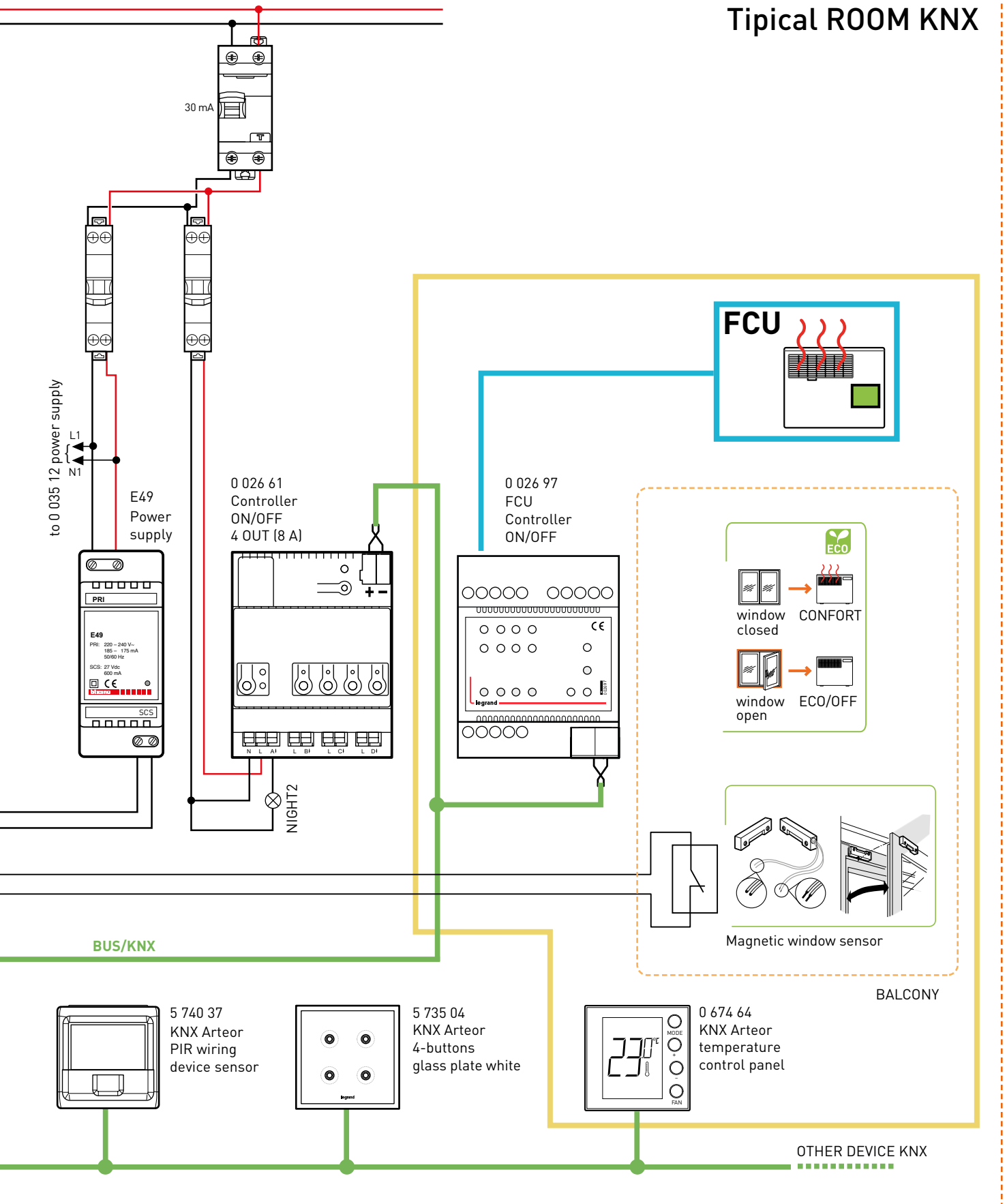
*depending on the type of fan coil unit

Wiring diagram of a typical hotel room

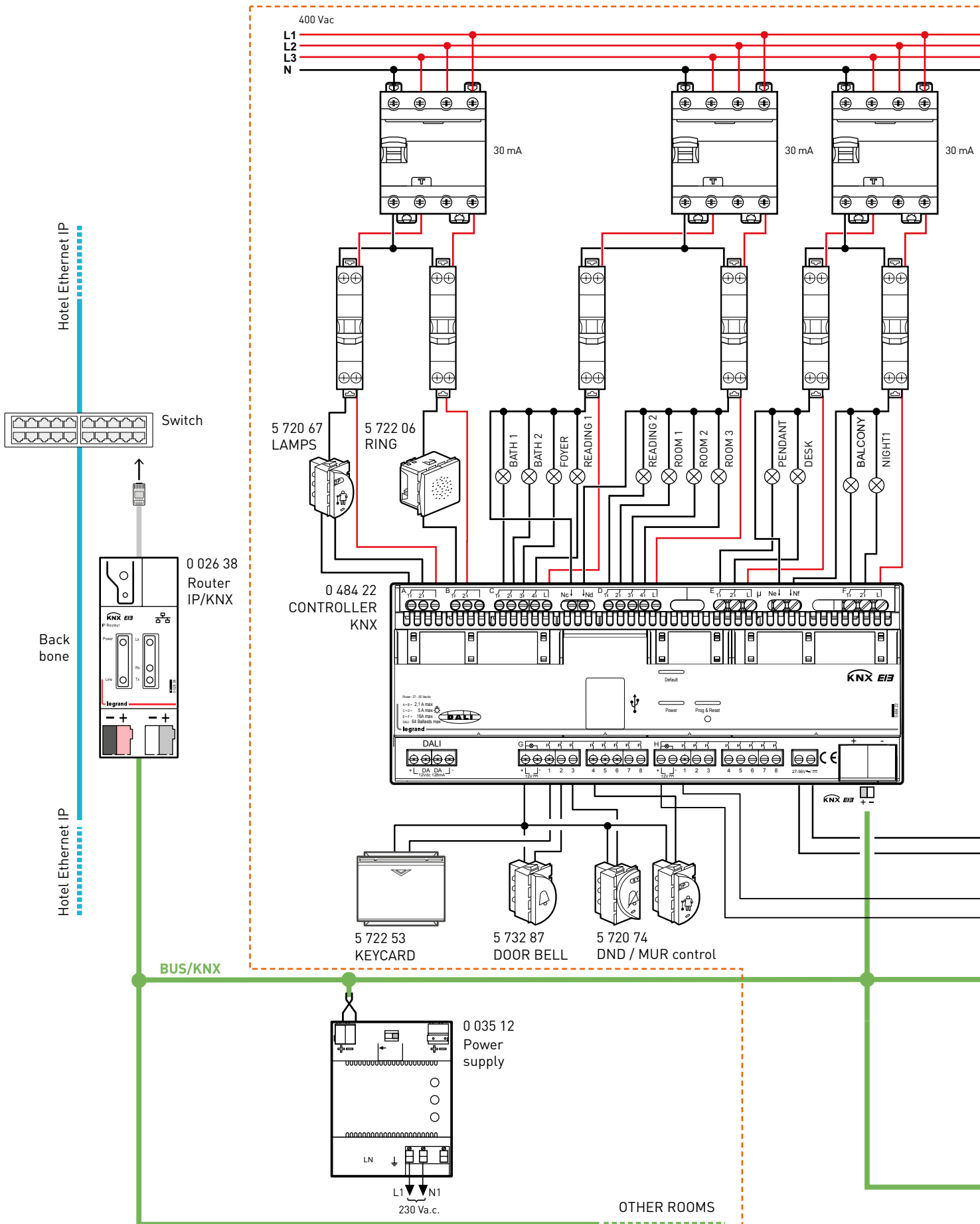


- single phase (230 Va.c.)

Typical ROOM KNX

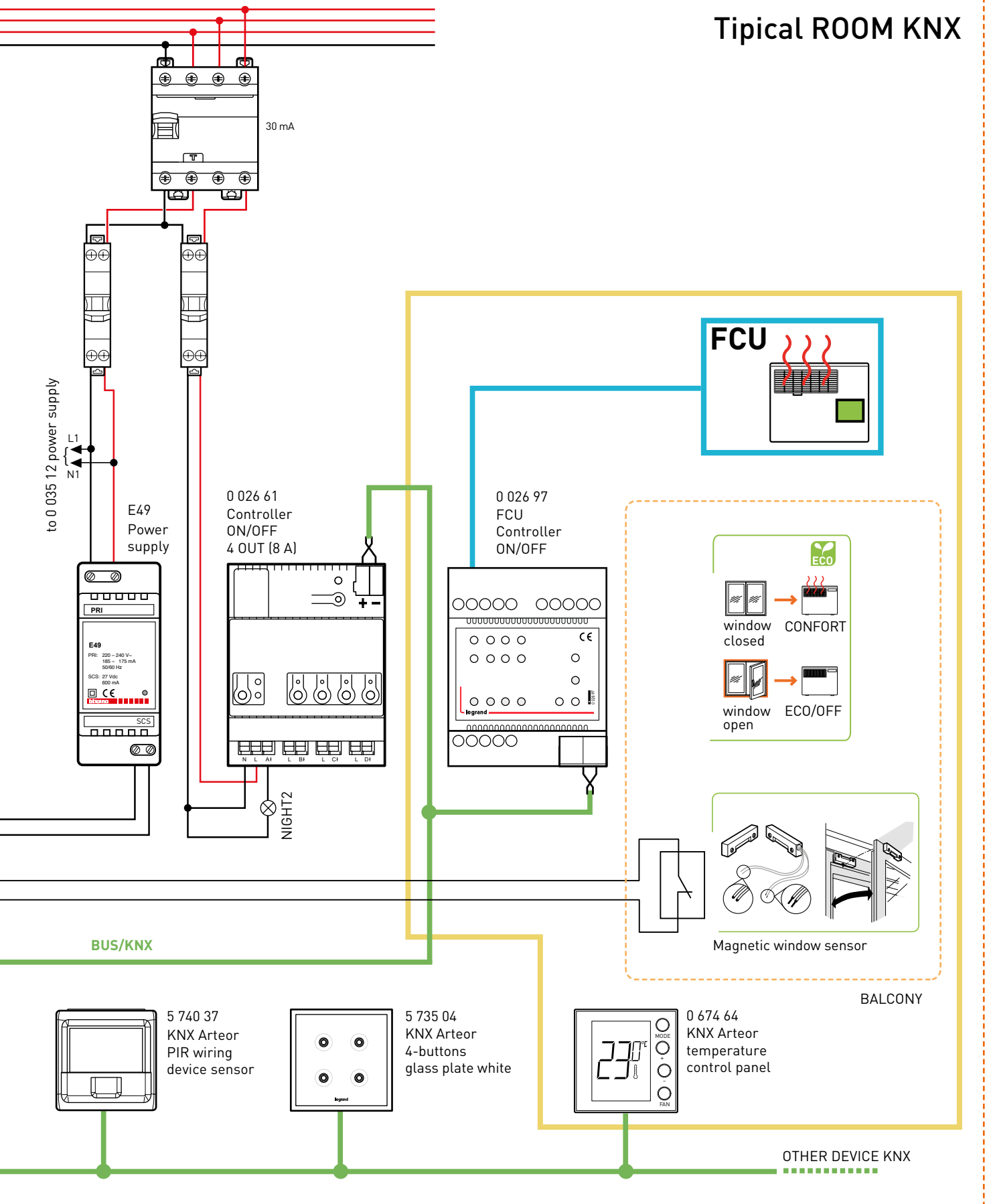


Wiring diagram of a typical hotel room



- three phase (400 Va.c.)

Typical ROOM KNX



Arteor



Axolute



Livinglight



KNX AND TRADITIONAL DEVICE
for designed the hotels

All technical informations
are available at

www.legrandoc.com

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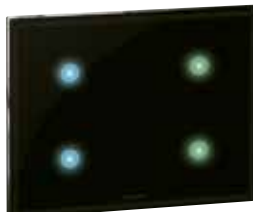
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Dimensional data

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0 675 71 (Mahogany)



5 735 05









0 484 22



E49

Connected directly to BUS/KNX cable (supplied with tap-off connector)
The control unit must be programmed using ETS software

Pack.	Cat. Nos.	Arteor wired control units
1	0 675 71	<p>Used to control lighting (ON/OFF, dimming, scenario, forcing), roller shutters (raise, lower, stop), awnings, and other receivers Fitted with programmable RGB LEDs (12 colours available) for displaying load status and system status feedback (normal, forced, override, day/night pilot light, etc.), alarms To be fitted with Arteor plates and Batibox support frames</p> <p>4 channels control unit without label display 4 actuation points To be equipped with key covers for control mechanism</p> 
1	5 742 03	<p>Square version 4 actuation points - With label holder</p> <p>○ White ● Magnesium</p> 
1	5 744 04	<p>Round version 4 actuation points - With label holder</p> <p>○ White ● Magnesium</p> 
1	5 735 02	<p>4-buttons touch control units Supplied complete with white or black touch plates To be fitted with Batibox support frames</p> <p>○ White - for BS flush-mounting boxes ● Black - for BS flush-mounting boxes</p> 
1	5 735 04	
1	5 735 05	
1	5 735 12	<p>6-buttons touch control units Supplied complete with white or black touch plates</p> <p>○ White ● Black</p> 
1	5 735 13	

Pack	Cat. No.	Room Controller Unit
1	0 484 18	<p>Power modules equipped with output contacts for controlling: - different types of ON/OFF load (lighting, roller shutters, contactors, motors, etc.) - a DALI dimming output for 64 ballasts max (0 484 22 only). Loads are managed by the controls to which they are linked: either by BUS/KNX controls, or by wired connection input terminals (switches, push-buttons, volt-free contacts) Multiphase connection and consumption measurement</p>
1	0 484 22	<p>8 inputs - 10 outputs 8 17.5 mm DIN modules</p>
1	0 484 22	<p>16 inputs - 16 outputs 12 17.5 mm DIN modules</p>
1	E49	<p>Power supplies compact power supply - input 230 Va.c. - output 27 Vd.c. - maximum current provided 600 mA - Sizes: 2 DIN modules</p> 

Arteor™ and common KNX devices

thermostats and temperature controller



0 490 31





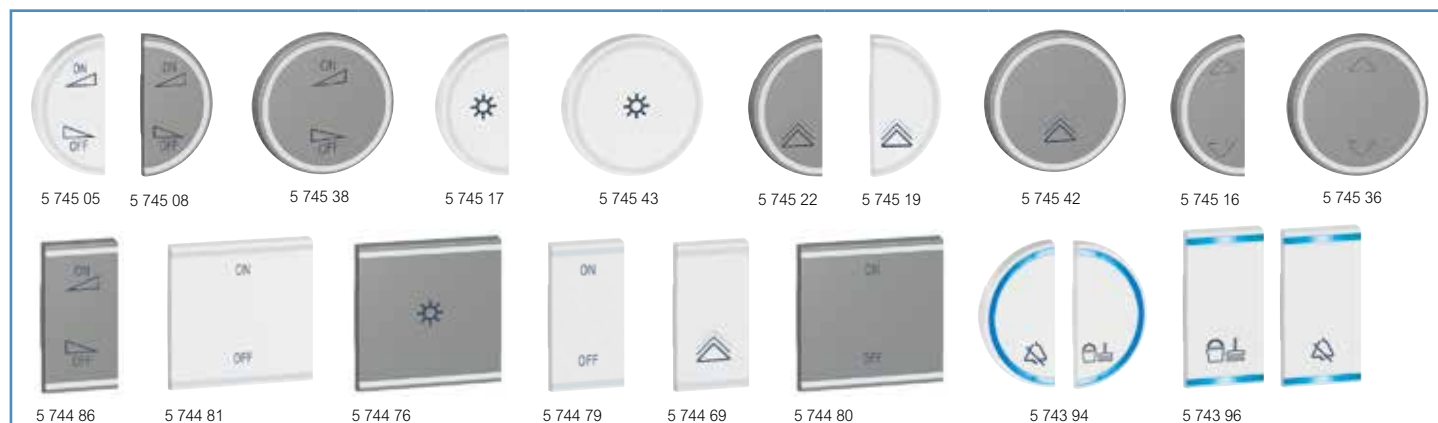
0 674 64



0 026 97

Connected directly to BUS/KNX cable (supplied with tap-off connector)
The control unit must be programmed using ETS software

Pack.	Cat. Nos.	Temperature control panel	Pack.	Cat. No.	Temperature controller
1	0 674 64	<p>Flush mounted 1,6' backlight display with 4 push-buttons and embedded a temperature probe Used to manage different types of heating/cooling system (FCU, heating/cooling valve, fan, electric load, ...) in combination through KNX with dedicated HVAC controller (002697 or 049041) Monitoring the ambient temperature with desired unit Adjustment of the temperature set-point and/or fan speed Selection of operating mode (comfort, protection) To be installed in flush-mounting boxes 2 modules To be equipped with support frames and plates</p> <p>Arteor</p>  <p>For fan coil units: 2 pipes, 2 pipes + electric heater and 4 pipes for heating and/or air conditioning For controlling on/off valves, 2-3 positions and 3 speeds (fan): comfort, economy, and protection with manual or automatic selection. Adjustment accuracy + 0.5°C 2 multi-function inputs for window contacts, summer/winter changeover, etc Backlit display Operating voltage 230 V± Supplied complete with dedicated flush-mounting box</p>	1	0 026 97	<p>DIN FCU controller ON/OFF Actuator with internal thermoregulation to control FCU or thermal valves In combination with the temperature control panel, can be used to manage ambient temperature according to end-user requests: operating mode, temperature adjustment 2 folds valve ON/OFF control (2A - 75~256VAC) 1 fold fan control - 3 speeds (6A - 230VAC) 1 binary input check - window contact (9~265VAC/DC) Operating temperature -5 à 45°C Operating voltage 230VAC +/- 10% (50/60Hz) 4 DIN modules 17,5mm</p>
1	0 490 31	<p>○ White</p> 	1	0 490 41	<p>DIN FCU controller 0-10 V Actuator with internal thermoregulation to control FCU, fan, thermal valves, electric load In combination with the temperature control panel, can be used to manage ambient temperature according to end-user requests: operating mode, temperature adjustment 2 outputs 0-10VDC to control thermal valves (5mA) 5 outputs (relays) to control fan (3 speeds) and/or thermal valves (10A - 230VAC) Operating temperature -5 à 45°C Operating voltage supplied by the KNX bus 4 DIN modules 17,5mm Possibility to power the 0-10V valves in using the transformer 24VAC ref. 0 442 11</p>



Key cover description	Pack	Number of modules	ROUND VERSION		SQUARE VERSION			
			White ○	Magnesium ●	White ○	Magnesium ●		
Adjustment symbol, left-hand side mounting	5	1		5 745 05	5 745 06		5 744 87	5 744 86
Adjustment symbol, right-hand side mounting	5	1		5 745 07	5 745 08			
Adjustment symbol	5	2		5 745 37	5 745 38		5 744 89	5 744 88
Light symbol (either side)	5	1		5 745 17	5 745 18		5 744 75	5 744 74
Light symbol	5	2		5 745 43	5 745 44		5 744 77	5 744 76
Dimmer symbol, left-hand side mounting	5	1		5 745 20	5 745 22		5 744 69	5 744 68
Dimmer symbol, right-hand side mounting	5	1		5 745 19	5 745 21			
Dimmer symbol	5	2		5 745 41	5 745 42		5 744 71	5 744 70
Up/Down symbol (either side)	5	1		5 745 15	5 745 16		5 744 93	5 744 92
Up/Down symbol	5	2		5 745 35	5 745 36		5 744 95	5 744 94
GEN marking	5	2		5 745 39	5 745 40		5 744 73	5 744 72
GEN/ON/OFF marking, left-hand side mounting	5	1		5 745 24	5 745 26		5 744 83	5 744 82
GEN/ON/OFF marking, right-hand side mounting	5	1		5 745 23	5 745 25			
GEN/ON/OFF marking	5	2		5 745 31	5 745 32		5 744 85	5 744 84
ON/OFF marking, left-hand side mounting	5	1		5 745 28	5 745 30		5 744 79	5 744 78
ON/OFF marking, right-hand side mounting	5	1		5 745 27	5 745 29			
ON/OFF marking	5	2		5 745 33	5 745 34		5 744 81	5 744 80
Sound source selection right-hand mounting	5	1		5 745 11	5 745 12		5 744 91	5 744 90
Shutter STOP marking (either side)	5	1		5 745 45	5 745 46		5 745 47	5 745 48
Unmarked (either side)	5	1		5 745 09	5 745 10		5 744 65	5 744 64
Unmarked	5	2		5 745 13	5 745 14		5 744 67	5 744 66
Key cover with DO NOT DISTURB symbol - 2 modules	5	2		5 743 46	5 743 47		5 743 48	5 743 49
Pair of key covers with DO NOT DISTURB symbol and MAKE UP ROOM symbol	2	1		5 743 94	5 743 95		5 743 96	5 743 97



5 727 30



5 721 53

Support frame and plate selection charts to see in the International version catalogue

Pack	Cat.Nos	Mechanical key card switches
1	5 722 30	For energizing a circuit by inserting a key fob Cat.No 5 722 59 or a smart card (access card for a hotel room) Example of use: hotel room power supply only when guest is present Time-delay of approx. 30 sec. after card removal To be equipped with single pole latching relay Cat.Nos 5 722 27 or 5 727 27 2 modules
1	5 727 30	
1	5 722 31	Key card switches 230 V <input type="radio"/> White <input checked="" type="radio"/> Magnesium
1	5 734 93	
1	5 722 31	Key card switches 12-24 V <input type="radio"/> White <input checked="" type="radio"/> Magnesium
1	5 734 93	
1	5 722 53	Key card switches RFID For energizing a circuit for example meeting room, office, hotel room... Works only with ISO type contactless key card Cat.Nos 0 767 11/12/13 or other ISO type 13.56 MHz key card Time-delay of approx. 30 sec. after card removal Low capacity contact 230 V - 30 VA Lighting of the slot by LED 2 modules
1	5 727 53	
10	5 722 59	Key card For mechanical key card switches Enables use of key fob switches in hotels with key locks Supplied complete with a label holder for individual hotel identification
10	5 727 59	
10	0 767 11	For RFID key card switches MIFARE contactless badge card ISO format (50 x 80 mm) Chip: 13.56 MHz Standard 1 KB memory

Pack	Cat.Nos	Shaver sockets
1	5 721 55	Conform to BS EN 61558-2-5 IP 24 For use with European, British, American, Australian 2-pin plugs Screwless live and neutral terminals Double wound isolating transformer Automatic self-resetting overload feature Plug insertion operates micro-switch which energises transformer To be equipped with BS 2 gang - 3-module plates For flush-mounting boxes, use BS 2 gang box depth 48 mm, US type, Italian type boxes depth 48 mm or Cat.No 0 801 55 Power supply: 230 V - 50/60 Hz 3 modules
1	5 726 55	
1	5 721 53	230 V / 120-230 V <input type="radio"/> White <input checked="" type="radio"/> Magnesium
1	5 726 53	
1	5 721 53	230 V / 120-230 V with earth connector <input type="radio"/> White <input checked="" type="radio"/> Magnesium
1	5 726 53	
1	5 722 06	Chimes 230 V - 50 Hz Consumption: 65 mA 1 melody Tone level: 73 dB at 1 m Compatible with push-button Cat.No 0 416 45
1	5 722 46	



5 733 82



5 737 22



5 725 54



Support frame and plate selection charts to see in the International version catalogue

Pack	Cat.Nos	Lighting control	Pack	Cat.Nos	Hotel bedroom call indicators
10	5 732 84	Master switch - 2 modules 2-way double pole 20 AX - 250 V~ for general control: all ON / all OFF ○ White ● Magnesium	5	5 720 57	Enable the resident to inform hotel staff of the room status Two settings are possible: - Do not disturb - Please clean the room 2 x 1 module Indicator for corridor Indicator lamp and bell push Installed in the corridor, display calls Supplied with LED ○ White ● Magnesium
10	5 737 84		5	5 725 57	
10	5 732 86	Master push-button - 2 modules 2-way 6 A - 250 V~ for general control: all ON/ all OFF ○ White ● Magnesium	5	5 720 54	Internal control unit Allows the user to select the desired setting Supplied with LED ○ White ● Magnesium
10	5 737 86		5	5 725 54	
10	5 732 94	Switch for bed lights - 2 x 1 module 2 x 2-way switch - 10 AX - 250 V~ ○ White ● Magnesium	5	5 722 24	Illuminated signs Mechanisms integrating LEDs and a pivoting window that can take customised labels (printed using a simple text editor on transparent printing paper) 2 modules Green or red LEDs Sign with 2-state LEDs with choice of green or red configurable on the mechanism Power level: 1 W ○ White ● Magnesium
5	5 737 94		5	5 727 24	
10	5 732 96	Push-button for bed lights - 2 x 1 module 2 x 2-way push-button - 6 A - 250 V~ ○ White ● Magnesium	5	5 722 25	Blue LEDs Sign with blue LEDs A choice of 2 power levels: 0.2 or 1 W ○ White ● Magnesium
5	5 737 96		5	5 727 22	
10	5 733 82	Switch for desk and entrance lights - 2 x 1 module 2 x 2-way switch - 10 AX - 250 V~ ○ White ● Magnesium	5	5 722 04	Buzzers 230 V - 1 module ○ White ● Magnesium
5	5 738 82		5	5 727 04	
10	5 733 84	Push-button for desk and entrance lights - 2 x 1 module 2 x 2-way push-button - 6 A - 250 V~ ○ White ● Magnesium	5	5 722 07	230 V - 2 modules ○ White ● Magnesium
5	5 738 84		5	5 722 47	
10	5 732 22	Electric roller blinds control - 250 VA Double switch 10 A - 2 modules For direct control of a motor (mechanism with fixed positions) ○ White ● Magnesium	10	5 722 05	8 V - 2 modules ○ White ● Magnesium
10	5 737 22		10	5 722 45	
10	5 732 24	Double push-button 10 A - 2 modules For control via automatic box (N/O mechanism) ○ White ● Magnesium	10		
10	5 737 24		10		
10	5 732 34	Curtain control - 250 VA Double switch 10 A - 2 modules For direct control of a motor (mechanism with fixed positions) ○ White ● Magnesium	10		
10	5 737 34		10		
10	5 732 36	Double push-button 10 A - 2 modules For control via automatic box (N/O mechanism) ○ White ● Magnesium	10		
10	5 737 36		10		

Arteor™

wiring devices - round version



5 732 95



5 737 35



5 725 67



5 725 74



RJ 45 and audio/video sockets

to see in the International version catalogue

Support frame and plate selection charts to see in the International version catalogue

Pack	Cat.Nos	Lighting control
10	5 732 85	Master switch - 2 modules 2-way double pole 20 AX - 250 V~ for general control: all ON / all OFF ○ White ● Magnesium
10	5 737 85	
10	5 732 87	Master push-button - 2 modules 2-way 6 A - 250 V~ for general control: all ON/ all OFF ○ White ● Magnesium
10	5 737 87	
5	5 732 95	Switch for bed lights - 2 x 1 module 2 x 2-way switch - 10 AX - 250 V~ ○ White ● Magnesium
5	5 737 95	
5	5 732 97	Push-button for bed lights - 2 x 1 module 2 x 2-way push-button - 6 A - 250 V~ ○ White ● Magnesium
5	5 737 97	
5	5 733 83	Switch for desk and entrance lights - 2 x 1 module 2 x 2-way switch - 10 AX - 250 V~ ○ White ● Magnesium
5	5 738 83	
5	5 733 85	Push-button for desk and entrance lights - 2 x 1 module 2 x 2-way push-button - 6 A - 250 V~ ○ White ● Magnesium
5	5 738 85	
Electric roller blinds control - 250 VA		
10	5 732 23	Double switch 10 A - 2 modules For direct control of a motor (mechanism with fixed positions) ○ White ● Magnesium
10	5 737 23	
10	5 732 25	Double push-button 10 A - 2 modules For control via automatic box (N/O mechanism) ○ White ● Magnesium
10	5 737 25	
Curtain control - 250 VA		
10	5 732 35	Double switch 10 A - 2 modules For direct control of a motor (mechanism with fixed positions) ○ White ● Magnesium
10	5 737 35	
10	5 732 37	Double push-button 10 A - 2 modules For control via automatic box (N/O mechanism) ○ White ● Magnesium
10	5 737 37	

Pack	Cat.Nos	Hotel bedroom call indicators
		Enable the resident to inform hotel staff of the room status Two settings are possible: - Do not disturb - Please clean the room 2 x 1 module
5	5 720 67	Indicator for corridor Indicator lamp and bell push Installed in the corridor, display calls Supplied with LED ○ White ● Magnesium
5	5 725 67	
5	5 720 74	Internal control unit Allows the user to select the desired setting Supplied with LED ○ White ● Magnesium
5	5 725 74	
Illuminated signs		
		Mechanisms integrating LEDs and a pivoting window that can take customised labels (printed using a simple text editor on transparent printing paper) 2 modules
5	5 727 25	Green or red LEDs Sign with 2-state LEDs with choice of green or red configurable on the mechanism 1-way ● Magnesium
5	5 727 23	Blue LEDs Sign with blue LEDs A choice of 2 power levels: 0.2 or 1 W ● Magnesium
Buzzers		
10	5 722 08	230 V - 2 modules ○ White ● Magnesium
10	5 722 48	
1	5 732 05	8 V - 2 modules ○ White ● Magnesium
1	5 732 45	

Axolute

BUS/KNX manual control units - room controller unit



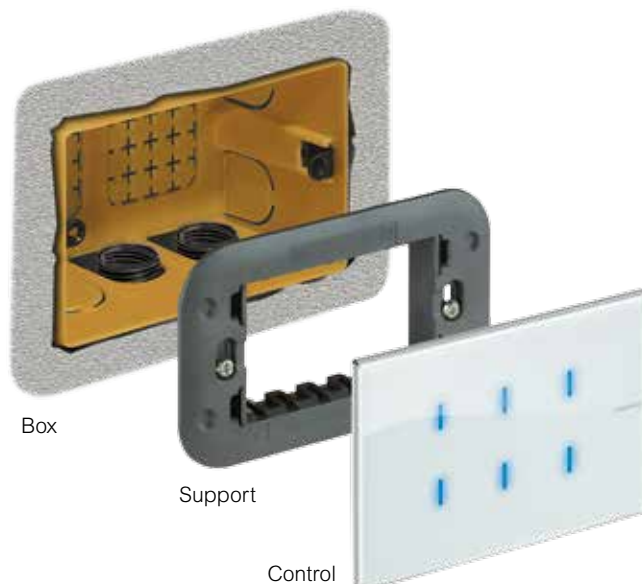
Connected directly to BUS/KNX cable (supplied with tap-off connector)
The control unit must be programmed using ETS software

Pack	Cat. No.	Axolute wired control units
1	H4651KNX	Control (ON/OFF, dimming, scenario, forcing), roller shutters (up, down, stop), awnings, and other clients. Fitted with programmable RGB LEDs (12 colours available) for displaying load status and system status feedback (normal, forced, override, day/night pilot light, etc.) and alarms 4 channels control unit without label display To be fitted with Axolute cover plate, plate and support frame
1	HD4680KNX	4 channels control unit with label display Supplied with label holder for button identification To be fitted with Axolute plate and support frame <input type="radio"/> White <input type="radio"/> Tech <input type="radio"/> Anthracite
1	HC4680KNX	
1	HS4680KNX	
1	HD4657M3KNX	6-buttons touch control unit Supplied with fitted touch plate Requires Axolute support frame <input type="radio"/> Transparent glass <input type="radio"/> White <input type="radio"/> Black
1	HC4657M3KNX	
1	HS4657M3KNX	

Pack	Cat. No.	Room Controller Unit
1	0 484 18	Power modules equipped with output contacts for controlling: - different types of ON/OFF load (lighting, roller shutters, contactors, motors, etc.) - a DALI dimming output for 64 ballasts max (0 484 22 only). Loads are managed by the controls to which they are linked: either by BUS/KNX controls, or by wired connection input terminals (switches, push-buttons, volt-free contacts) Multiphase connection and consumption measurement
1	0 484 22	8 inputs - 10 outputs 8 17.5 mm DIN modules
1	E49	16 inputs - 16 outputs 12 17.5 mm DIN modules
1	E49	Power supplies compact power supply - input 230 Va.c. - output 27 Vd.c. - maximum current provided 600 mA - Sizes: 2 DIN modules

INSTALLATION OF THE GLASS DIGITAL CONTROL

Box	Support	Control
503E	H4703	HD4657M3KNX
		HC4657M3KNX
		HS4657M3KNX



Axolute and common KNX devices

thermostats and temperature controller



0 490 31





H4691KNX



0 026 97


Connected directly to BUS/KNX cable (supplied with tap-off connector)
The control unit must be programmed using ETS software

Pack.	Cat. Nos.	Temperature control panel
1	H4691KNX	<p>Flush mounted 1,6' backlight display with 4 push-buttons and embedded a temperature probe Used to manage different types of heating/cooling system (FCU, heating/cooling valve, fan, electric load, ...) in combination through KNX with dedicated HVAC controller (002697 or 049041) Monitoring the ambient temperature with desired unit Adjustment of the temperature set-point and/or fan speed Selection of operating mode (comfort, protection) To be installed in flush-mounting boxes 2 modules To be equipped with support frames and plates</p> <p> Axolute</p> <p>For fan coil units: 2 pipes, 2 pipes + electric heater and 4 pipes for heating and/or air conditioning For controlling on/off valves, 2-3 positions and 3 speeds (fan): comfort, economy, and protection with manual or automatic selection. Adjustment accuracy + 0.5°C 2 multi-function inputs for window contacts, summer/winter changeover, etc Backlit display Operating voltage 230 V± Supplied complete with dedicated flush-mounting box</p>
1	0 490 31	<p> ○ White</p>

Pack	Cat. No.	Temperature controller
1	0 026 97	<p>DIN FCU controller ON/OFF Actuator with internal thermoregulation to control FCU or thermal valves In combination with the temperature control panel, can be used to manage ambient temperature according to end-user requests: operating mode, temperature adjustment 2 folds valve ON/OFF control (2A - 75~256VAC) 1 fold fan control – 3 speeds (6A - 230VAC) 1 binary input check – window contact (9~265VAC/DC) Operating temperature -5 à 45°C Operating voltage 230VAC +/- 10% (50/60Hz) 4 DIN modules 17,5mm</p>
1	0 490 41	<p>DIN FCU controller 0-10 V Actuator with internal thermoregulation to control FCU, fan, thermal valves, electric load In combination with the temperature control panel, can be used to manage ambient temperature according to end-user requests: operating mode, temperature adjustment 2 outputs 0-10VDC to control thermal valves (5mA) 5 outputs (relays) to control fan (3 speeds) and/or thermal valves (10A - 230VAC) Operating temperature -5 à 45°C Operating voltage supplied by the KNX bus 4 DIN modules 17,5mm Possibility to power the 0-10V valves in using the transformer 24VAC ref. 0 442 11</p>

















































































Axolute

BUS/KNX manual control key covers

KEY COVERS WITHOUT SILK-SCREEN PRINTING - 1 AND 2 FUNCTIONS		1 module CAT. NO.	2 modules CAT. NO.
KEY-COVERS WITHOUT SILK-SCREEN PRINTING - 1 FUNCTION			
 HD4915  HD4915M2		HD4915	HD4915M2
 HC4915  HC4915/2		HC4915	HC4915/2
 HS4915  HS4915/2		HS4915	HS4915/2
KEY-COVERS WITHOUT SILK-SCREEN PRINTING - 2 FUNCTIONS			
 HD4911  HD4911M2		HD4911	HD4911M2
 HC4911  HC4911/2		HC4911	HC4911/2
 HS4911  HS4911/2		HS4911	HS4911/2

Axolute

BUS/KNX manual control key covers

KEY COVERS WITH SILK-SCREEN PRINTING - 1 AND 2 FUNCTIONS			1 module CAT. NO.	2 modules CAT. NO.	KEY COVERS WITH SILK-SCREEN PRINTING - 1 AND 2 FUNCTIONS			1 module CAT. NO.	2 modules CAT. NO.		
KEY COVERS WITH SILK-SCREEN PRINTING WITH SYMBOLS - 1 FUNCTION					KEY COVERS WITH SILK-SCREEN PRINTING WITH SYMBOLS - 1 FUNCTION (CONTINUED)						
 HD4915AA	OFF		HD4915AA	HD4915M2AA	 HD4915MR —	Make up room		HD4915MR	—		
			HC4915AA	HC4915/2AA				HC4915MR	—		
			HS4915AA	HS4915/2AA				HS4915MR	—		
	ON		HD4915AB	HD4915M2AB		 HD4911AF	ON - OFF - GEN		HD4911AF	HD4911M2AF	
			HC4915AB	HC4915/2AB					HC4911AF	HC4911/2AF	
			HS4915AB	HS4915/2AB					HS4911AF	HS4911/2AF	
	GEN		HD4915AC	HD4915M2AC			 HD4911M2AF	ON - OFF		HD4911AG	HD4911M2AG
			HC4915AC	HC4915/2AC						HC4911AG	HC4911/2AG
			HS4915AC	HS4915/2AC						HS4911AG	HS4911/2AG
Dimmer		HD4915AD	HD4915M2AD	 HD4911AH	UP - DOWN				HD4911AH	HD4911M2AH	
		HC4915AD	HC4915/2AD						HC4911AH	HC4911/2AH	
		HS4915AD	HS4915/2AD						HS4911AH	HS4911/2AH	
Light		HD4915BA	HD4915M2BA		 HD4911AI	ON - OFF ADJUSTMENT			HD4911AI	HD4911M2AI	
		HC4915BA	HC4915/2BA						HC4911AI	HC4911/2AI	
		HS4915BA	HS4915/2BA						HS4911AI	HS4911/2AI	
Stop		HD4915AE	—			 HD4911AG	Light		HD4911BA	HD4911M2BA	
		HC4915AE	—						HC4911BA	HC4911/2BA	
		HS4915AE	—						HS4911BA	HS4911/2BA	
Bed light		HD4915BL	HD4915M2BL	 HD4911BC			Fan		HD4911BC	HD4911M2BC	
		HC4915BL	HC4915M2BL						HC4911BC	HC4911/2BC	
		HS4915BL	HS4915M2BL						HS4911BC	HS4911/2BC	
Bell		HD4915BB	HD4915M2BB		 HD4911BE		Treble clef		HD4911BE	—	
		HC4915BB	HC4915/2BB						HC4911BE	—	
		HS4915BB	HS4915/2BB						HS4911BE	—	
Fan		HD4915BC	HD4915M2BC			 HD4911AD	+ up and - down		HD4911AD	—	
		HC4915BC	HC4915/2BC						HC4911AD	—	
		HS4915BC	HS4915/2BC						HS4911AD	—	
Key		HD4915BD	—	 HD4915BA HS4915/2BA			Do not disturb		HD4915DD	HD4915M2DD	
		HC4915BC	—						HC4915DD	HC4915M2DD	
		HS4915BC	—						HS4915DD	HS4915M2DD	
Music		HD4915BE	HD4915M2BE								
		HC4915BE	HC4915/2BE								
		HS4915BE	HS4915/2BE								
Nurse		HD4915BF	HD4915M2BF								
		HC4915BF	HC4915/2BF								
		HS4915BF	HS4915/2BF								
Do not disturb		HD4915DD	HD4915M2DD								
		HC4915DD	HC4915M2DD								
		HS4915DD	HS4915M2DD								

Axolute

traditional devices



finishing accessories and traditional devices



Support frame and plate selection charts to see in the International version catalogue

Pack	Cat. No.	Key card switch
1	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
1	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
1	H4372V230H	Lampholder for off-door notification Off-door lampholder with double optical notification: do not disturb and make up room – use 2 LEDs item LN4742V12T (12V)
		Shaver sockets Shaver socket with insulation transformer - input voltage 230 Va.c. 50/60 hz - output voltage 115/230 Va.c. 20 VA ○ White ● Alu ● Anthracite
		Pull-cord pushbutton Cord pushbutton 1 P NO 10 A for bathroom alarm ○ White ● Alu ● Anthracite
		USB chargers 5 Vdc USB socket for charging electronic devices up to 750 mA like mobile phones, smartphones, tablets and similar – 230 Vac power supply - 1 module ○ White ● Alu ● Anthracite 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 - 2 modules ○ White ● Alu ● Anthracite

Pack	Cat. No.	Front covers for key card switches
		Front cover for traditional or SCS key card switch - 2 modules ○ White ● Alu ● Anthracite
		Key covers with symbols for SCS control “Do not disturb” key covers ○ White ● Alu ● Anthracite “Do not disturb” key covers - 2 modules ○ White ● Alu ● Anthracite “Make up the room” key covers ○ White ● Alu ● Anthracite “Room light” key covers ○ White ● Alu ● Anthracite “Room light” key covers - 2 modules ○ White ● Alu ● Anthracite
		Key cover with symbols for axial controls “Bed light” key covers ○ White ● Alu ● Anthracite “Bed light” key covers - 2 modules ○ White ● Alu ● Anthracite “Do not disturb” key covers ○ White ● Alu ● Anthracite “Make up the room” key covers ○ White ● Alu ● Anthracite

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



Livinglight

BUS/KNX manual control units - room controller unit



LN4651KNX



NT4680KNX



0 484 18



E49



0 484 22

Connected directly to BUS/KNX cable (supplied with tap-off connector)
The control unit must be programmed using ETS software

Pack	Cat. No.	Livinglight wired control units
1	LN4651KNX	<p>Used to control (ON/OFF, dimming, scenario, forcing), roller shutters (up, down, stop), awnings, and other receivers. Fitted with programmable RGB LEDs (12 colours available) for displaying load status and system status feedback (normal, forced, override, day/night pilot light, etc.) and alarms</p> <p>4 channels control unit without label display To be fitted with Livinglight cover plate, plate and support frame</p>
1	N4680KNX	<p>4 channels control unit with label display Supplied with label holder for button identification To be fitted with Livinglight plate and support frame</p> <p>○ White ● Tech ● Anthracite</p>
1	NT4680KNX	
1	L4680KNX	

Pack	Cat. No.	Room Controller Unit
1	0 484 18	<p>Power modules equipped with output contacts for controlling: - different types of ON/OFF load (lighting, roller shutters, contactors, motors, etc.) - a DALI dimming output for 64 ballasts max (0 484 22 only). Loads are managed by the controls to which they are linked: either by BUS/KNX controls, or by wired connection input terminals (switches, push-buttons, volt-free contacts) Multiphase connection and consumption measurement</p> <p>8 inputs - 10 outputs 8 17.5 mm DIN modules</p>
1	0 484 22	<p>16 inputs - 16 outputs 12 17.5 mm DIN modules</p>
1	E49	<p>Power supplies</p> <p>compact power supply - input 230 Va.c. - output 27 Vd.c. - maximum current provided 600 mA - Sizes: 2 DIN modules</p>



LIVINGLIGHT INSTALLATION FLUSH MOUNTED IN MASONRY WALLS



Flush mounted box



Support with devices



Front cover plate





LN4691KNX











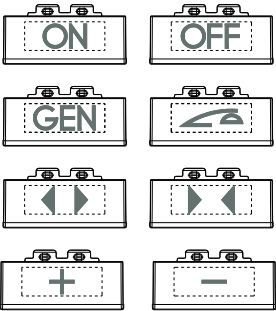



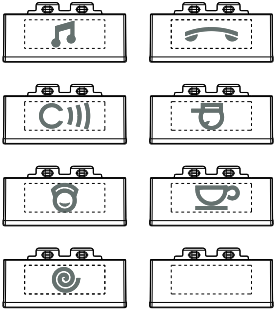



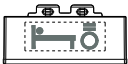



0 026 97

Connected directly to BUS/KNX cable (supplied with tap-off connector)
The control unit must be programmed using ETS software

Pack.	Cat. Nos.	Temperature control panel	Pack	Cat. No.	Temperature controller
1	LN4691KNX	<p>Flush mounted 1,6' backlight display with 4 push-buttons and embedded a temperature probe Used to manage different types of heating/cooling system (FCU, heating/cooling valve, fan, electric load, ...) in combination through KNX with dedicated HVAC controller (002697 or 049041) Monitoring the ambient temperature with desired unit Adjustment of the temperature set-point and/or fan speed Selection of operating mode (comfort, protection) To be installed in flush-mounting boxes 2 modules To be equipped with support frames and plates</p> <p>Livinglighth</p>  <p>For fan coil units: 2 pipes, 2 pipes + electric heater and 4 pipes for heating and/or air conditioning For controlling on/off valves, 2-3 positions and 3 speeds (fan): comfort, economy, and protection with manual or automatic selection. Adjustment accuracy + 0.5°C 2 multi-function inputs for window contacts, summer/winter changeover, etc Backlit display Operating voltage 230 V± Supplied complete with dedicated flush-mounting box</p>	1	0 026 97	<p>DIN FCU controller ON/OFF Actuator with internal thermoregulation to control FCU or thermal valves In combination with the temperature control panel, can be used to manage ambient temperature according to end-user requests: operating mode, temperature adjustment 2 folds valve ON/OFF control (2A - 75~256VAC) 1 fold fan control – 3 speeds (6A - 230VAC) 1 binary input check – window contact (9~265VAC/DC) Operating temperature -5 à 45°C Operating voltage 230VAC +/- 10% (50/60Hz) 4 DIN modules 17,5mm</p>
1	0 490 31	<p>○ White</p> 	1	0 490 41	<p>DIN FCU controller 0-10 V Actuator with internal thermoregulation to control FCU, fan, thermal valves, electric load In combination with the temperature control panel, can be used to manage ambient temperature according to end-user requests: operating mode, temperature adjustment 2 outputs 0-10VDC to control thermal valves (5mA) 5 outputs (relays) to control fan (3 speeds) and/or thermal valves (10A - 230VAC) Operating temperature -5 à 45°C Operating voltage supplied by the KNX bus 4 DIN modules 17,5mm Possibility to power the 0-10V valves in using the transformer 24VAC ref. 0 442 11</p>



































Livinglight

BUS/KNX manual control key covers

KEY COVERS THAT CAN BE CUSTOMISED WITH DIFFUSERS, AVAILABLE AS A KIT			1 module CAT. NO.	2 modules CAT. NO.
NEUTRAL LIGHTABLE KEY COVERS				
1 function  can be customised	1-function key cover that can be customised with 1 diffuser*		N4915TN	N4915M2TN
			NT4915TN	NT4915M2TN
			L4915TN	L4915M2TN
2 functions  can be customised	2-function key cover that can be customised with 2 diffusers*		N4911TN	N4911M2TN
			NT4911TN	NT4911M2TN
			L4911TN	L4911M2TN
DIFFUSERS KIT				
	Kit composition shown alongside (5 diffusers for each type)		N4915KIT	
			NT4915KIT	
			L4915KIT	
	Kit composition shown alongside (5 diffusers for each type)		N4915KIT	
			N4915KIT	
			N4915KIT	
	Kit with diffuser shown alongside (50 diffusers)		N4915SETBL	
			NT4915SETBL	
			L4915SETBL	































Livinglight

BUS/KNX manual control key covers

1-FUNCTION KEY COVERS			1 module CAT. NO.	2 modules CAT. NO.
NEUTRAL LIGHTABLE KEY COVERS				
 NT4915N	Neutral key cover with lightable bottom section		NT4915N	NT4915M2N
 L4915N			L4915N	L4915M2N
 N4915LN	High brightness key cover		N4915LN	N4915M2LN
KEY COVERS WITH DIFFUSER AND LIGHTABLE SYMBOL				
 NT4915AN	Key cover with light symbol		N4915AN	N4915M2AN
			NT4915AN	NT4915M2AN
			L4915AN	L4915M2AN
 NT4915BN	Key cover with staircase light symbol		N4915BN	N4915M2BN
			NT4915BN	NT4915M2BN
			L4915BN	L4915M2BN
 NT4915DN	Key cover with bell symbol		N4915DN	N4915M2DN
			NT4915DN	NT4915M2DN
			L4915DN	L4915M2DN
 NT4915FN	Key cover with key symbol		N4915FN	N4915M2FN
			NT4915FN	NT4915M2FN
			L4915FN	L4915M2FN
 NT4915M2ADN	Key cover with dimmer symbol		—	N4915M2ADN
			—	NT4915M2ADN
			—	L4915M2ADN
 NT4915DD	Key cover with “Do not disturb” symbol		N4915DD	N4915M2DD
			NT4915DD	NT4915M2DD
			L4915DD	L4915M2DD
 NT4915MR	Key cover with “Make up room” symbol		N4915MR	—
			NT4915MR	—
			L4915MR	—

Livinglight

BUS/KNX manual control key covers

2-FUNCTION KEY COVERS			1 module CAT. NO.	2 modules CAT. NO.
NEUTRAL LIGHTABLE KEY COVERS				
 N4911N	Neutral key cover with lightable top and bottom sections		N4911N	N4911M2N
 NT4911N			NT4911N	NT4911M2N
 L4911N			L4911N	L4911M2N
KEY COVERS WITH 2 DIFFUSERS AND LIGHTABLE SYMBOLS				
 NT4911AFN	Key cover with ON-OFF and GEN screen printing		N4911AFN	N4911M2AFN
			NT4911AFN	NT4911M2AFN
			L4911AFN	L4911M2AFN
 NT4911AGN	Key cover with ON/OFF markings		N4911AGN	N4911M2AGN
			NT4911AGN	NT4911M2AGN
			L4911AGN	L4911M2AGN
 NT4911AHN	Key cover with up/down symbols		N4911AHN	N4911M2AHN
			NT4911AHN	NT4911M2AHN
			L4911AHN	L4911M2AHN
 NT4911ADN	Key cover with + (top) and - (bottom) markings		N4911ADN	—
			NT4911ADN	—
			L4911ADN	—
 NT4911AIN	Key cover with adjustment OFF adjustment ON symbols		N4911AIN	N4911M2AIN
			NT4911AIN	NT4911M2AIN
			L4911AIN	L4911M2AIN
 NT4911BFN	Key cover with "change source" and "change track" symbols		N4911BFN	—
			NT4911BFN	—
			L4911BFN	—



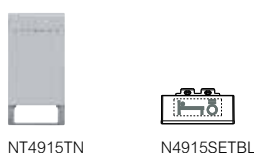
LN4549 L4177



N4033 N4373H



NT4547 NT4915DD NT4915MR



NT4915TN N4915SETBL

Support frame and plate selection charts to see in the International version catalogue

Pack	Cat. No.	Key card switch
1	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
1	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
1	N4373H	Lampholder for off-door notification Off-door lampholder with double optical notification: do not disturb and make up room – use 2 LEDs item LN4742V12T (12V) ○ White ● Alu ● Anthracite
1	NT4373H	
1	L4373H	
1	L4177*	Shaver sockets Shaver socket with insulation transformer - input voltage 230 Va.c. 50/60 hz - output voltage 115/230 Va.c. 20 VA ○ White ● Alu ● Anthracite
1	L4177*	
1	L4177*	
1	N4033	Pull-cord pushbutton Cord pushbutton 1 P NO 10 A for bathroom alarm ○ White ● Alu ● Anthracite
1	NT4033	
1	L4033	

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

Pack	Cat. No.	Front covers for key card switches
1	N4547	Front covers for key card switches Front cover for traditional or SCS key card switch - 2 modules ○ White ● Alu ● Anthracite
1	NT4547	
1	L4547	
1	N4551	- 3 modules ○ White ● Alu ● Anthracite
1	NT4551	
1	L4551	
1	N4915DD	Key covers with symbols for KNX control “Do not disturb” key covers ○ White ● Alu ● Anthracite
1	NT4915DD	
1	L4915DD	
1	N4915MR	“Make up the room” key covers ○ White ● Alu ● Anthracite
1	NT4915MR	
1	L4915MR	
1	N4915M2DD	“Do not disturb” key covers - 2 modules ○ White ● Alu ● Anthracite
1	NT4915M2DD	
1	L4915M2DD	
1	N4915TN	Key covers that can be customised and kit of diffusers Key cover for rocker control devices that can be customised with lightable diffuser ○ White ● Alu ● Anthracite
1	NT4915TN	
1	L4915TN	
1	N4915SETBL	Kit of 50 lightable diffusers with bed light symbol ○ White ● Alu ● Anthracite
1	NT4915SETBL	
1	L4915SETBL	

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



Common KNX devices

sensors



0 489 19



0 489 21



0 489 18



0 489 20

Constantly check for presence and light levels, switching OFF as soon as the natural light level is sufficient.
 Switch ON and OFF automatically
 Accurate set-up on site with configuration device
 Connected directly to BUS/KNX cable (supplied with tap-off connector)
 The detector must be programmed using ETS software

Pack	Cat. No.	Special corridor motion sensor
1	0 489 19	Ceiling mounted Double passive infrared detection 360°, lateral range 2 x 12 m IP 20 Optimum distance between two sensors: 20 m Consumption 0.2 W Recommended fixing height: 2.5 m Fits directly in suspended ceiling with springs (supplied) or is installed in a 50 mm deep Batibox Cat. No. 0 893 58 Surface mounted on ceiling using accessory Cat. No. 0 488 75
1	0 489 21	Special motion sensor for outdoor car parks and cellars Wall or ceiling mounted - surface mounting Passive infrared detection with 270° adjustable head, range 20 m Recommended fixing height: 2.5 m IP 55 Consumption 0.5 W Can be fixed in a corner with a special accessory Cat. No. 0 489 72
1	5 740 37	Special motion sensors for small premises and bathrooms Wall mounted - flush or surface mounting Recommended fixing height: 1.2 m Consumption 0.2 W Optimum distance between two sensors: 6 m Arteor 180° passive infrared detection, range 8 m IP 41 - Céliane Arteor plate - a Batibox support frame ○ White ● Magnesium
1	5 740 79	
1	HD4658KNX	Special motion sensor for small premises and bathrooms Axolute 180° passive infrared detection, range 8 m IP 41 For use with: - an Axolute plate - an Axolute support frame ○ White ● Anthracite ● Tech Livinglight 180° passive infrared detection, range 8 m IP 41 For use with: - a Livinglight plate - a Livinglight support frame ○ White ● Anthracite ● Tech
1	HS4658KNX	
1	HC4658KNX	
1	N4658KNX	
1	L4658KNX	
1	NT4658KNX	

Pack	Cat. No.	Special presence sensors for work areas
1	0 489 18	Suitable for meeting rooms, classrooms, open areas, etc. Dual technology Ceiling mounted 360° passive infrared and ultrasound detection, range 8 m IP 20 Optimum distance between two sensors: 6 m Consumption 0.5 W Connection by automatic terminals Fixes directly in suspended ceiling with springs (supplied) or is installed in a 50 mm deep Batibox Surface mounted on ceiling using accessory Cat. No. 0 488 75
1	0 489 22	360° passive infrared detection with high density lens range 8 m IP 20 Consumption 0.5 W Optimum distance between two sensors: 6 m Fixes directly in suspended ceiling with springs (supplied) or is installed in a 50 mm deep Batibox Surface mounted on ceiling using accessory Cat.No 0 488 75 Connection by KNX red/black connector
1	0 489 20	Wall mounted - surface mounting 180° passive infrared and ultrasound detection, front range 8 m IP 42 Consumption 0.5 W Recommended fixing height: 2.5 m Optimum distance between two sensors: 10 m Can be fixed in a corner with a special accessory Cat.No 0 489 71



0 882 30

Pack	Cat. No.	Configuration remote controls
1	0 882 30	Advanced configuration remote control, with IR transmitter and receiver. It adjusts the main operating parameters of: Switch Sensor, Green Switch, SCS compatible sensors and KNX sensors. With display for the acquisition of the parameters set on the sensors and to edit them. Batteries charged by USB mini port.

Pack	Cat. No.	Installation accessories
1	0 488 75	Ceiling mounted box compatible with the sensors: BMSA2202, BMSA2204, BMSA2205, BMSE3001 and BMSA3003, 048918, 048919, 048922, IP20 protection index , dimensions Ø 100 x 50 mm
1	0 489 71	Accessory for angle installation compatible with the sensors: BMSA2104, BMSA2105, BMSA2106, 048920, IP42 protection index , dimensions (hxlxd) 115 x 75 x 40 mm
1	502E	2 module flush mounted box for masonry ceilings, dimensions 71 x 71 x 53.5 mm
1	PB502	2 module flush mounted box for double plate plaster coated ceilings, dimensions 71 x 68 x 51 mm
1	89358	2 module flush mounted box for masonry ceilings, dimensions 85 x 50 mm



Smart detection

Thanks to the combination of ETS5 and the 0 882 30 configuration tool, it is possible to set/modify detector parameters simply and quickly for optimum detection!





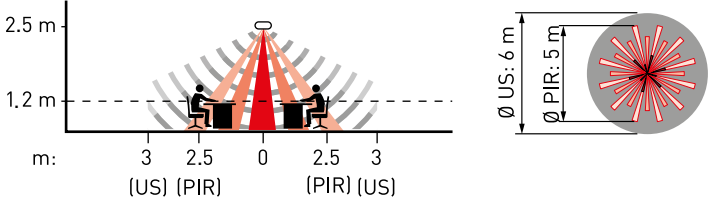


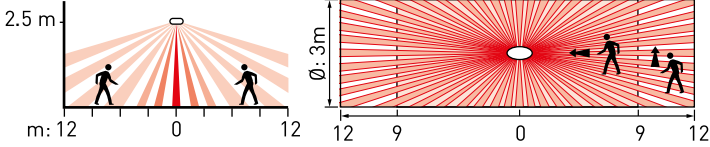


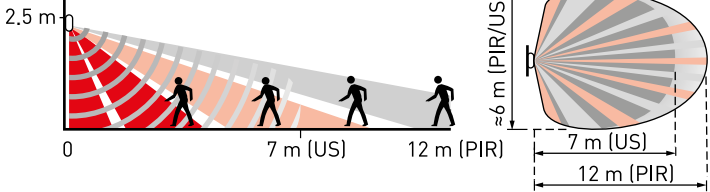


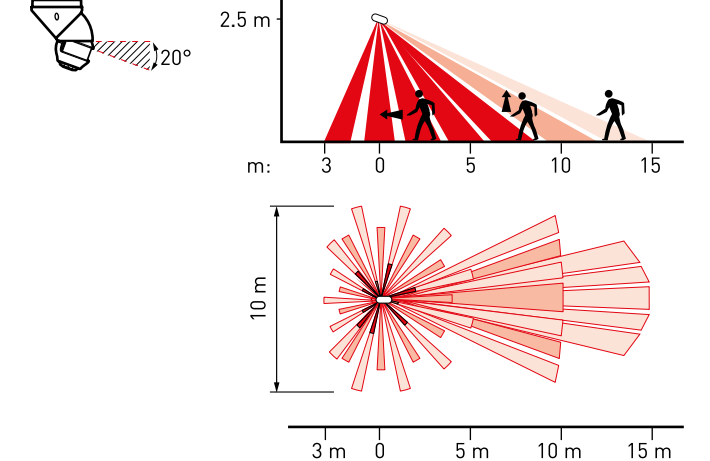


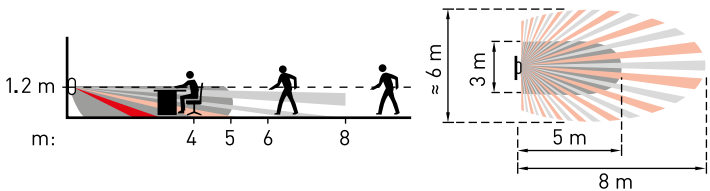
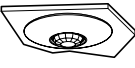

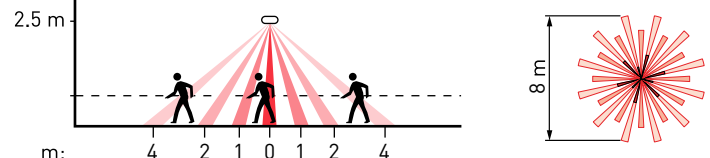
THE MOBILE CONFIGURATOR:
AN ASSET FOR COMMISSIONING
AND MAINTENANCE

Cat. No. 0 882 30

Common KNX devices

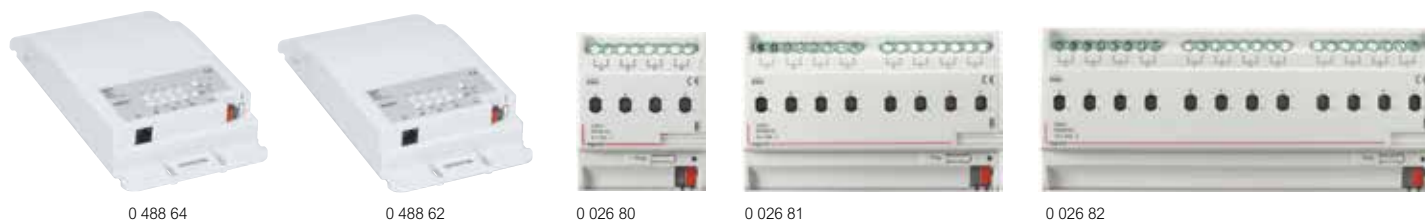
sensors - BUS/KNX coverage patterns



Cat. Nos	Installation technology type	Range	Detection area	Examples of applications
 0 489 18		6 m (US) 5 m (PIR)		Classroom, meeting room, open plan office
 0 489 19		2 x 12 m		Long corridor
 0 489 20		7 m (US) 12 m (PIR)		Individual office, classroom, meeting room, restrooms etc.
 0 489 21		18 m		High ceiling areas (warehouses, gymnasium) outdoor car park, basement, laboratory
 0 784 93 - 0 675 77 - 5 740 37 5 740 79 - HC4658KNX HD4658KNX - HS4658KNX L4658KNX - N4658KNX NT4658KNX		8 m		Bathroom, stairways
 0 489 22		8 m		Individual office, corridor, stairways, restrooms etc.

Common KNX devices

controllers - false ceiling and modular BUS/KNX



Connected with the BUS/KNX cable
Configuration using ETS programming software

Pack	Cat. No.	False ceiling controllers for dimming
1	0 488 64	For DALI protocol 4 outputs 32 ballasts maximum per output
1	0 488 62	For 1-10 V ballast, 4 outputs 1000 VA maximum per output Also controls four ON/OFF circuits
Modular controllers for dimming		
Each output can be controlled by a sensor and/or BUS/KNX control unit		
1	SEPT 2016 0 026 98	For DALI protocol 1 output Individually controls 64 ballasts in a maximum of 16 groups 6 17.5 mm DIN modules
1	0 026 63	8 outputs 16 ballasts maximum per output 4 17.5 mm DIN modules
1	JUNE 2016 0 026 86	For BT and TBT loads only 2 outputs 2 x 500 VA maximum per output 8 17.5 DIN modules
1	JUNE 2016 0 026 87	4 outputs 4 x 500 VA maximum per output 12 17.5 mm DIN modules
1	JUNE 2016 0 026 88	4 1-10 V outputs and 4 x 16 A switching outputs 8 17.5 mm DIN modules
1	0 026 59	All LV and ELV loads 2 outputs 2 x 400 W/VA maximum per output or 1 x 800 W/VA For use with one or two extensions Cat. No. 0 026 60 max. for four or six outputs. 4 17.5 mm DIN modules
1	0 026 60	Controller extension 0 026 60 Adds two additional outputs to controller Cat. No. 0 026 59 Maximum of two extensions per controller 4 17.5 mm DIN modules

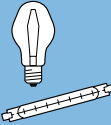
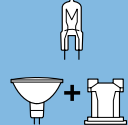


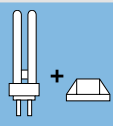

Pack	Cat. No.	Modular controller for roller shutters
1	0 026 91	Each output can be controlled by a sensor and/or BUS/KNX control 4 x 2.1 A outputs 4 17.5 mm modules
Modular ON/OFF controllers		
Each output can be controlled by a sensor and/or BUS/KNX control unit		
1	0 026 61	8 A for lighting 4 x 8 A outputs 4 17.5 mm DIN modules
1	0 026 62	8 x 8 A outputs 4 17.5 mm DIN modules
1	0 026 80	16 A for lighting, sockets and electrical equipment. 4 x 16 A outputs 4 17.5 mm DIN modules
1	0 026 81	8 x 16 A outputs 8 17.5 mm modules
1	0 026 82	12 x 16 A outputs 12 17.5 mm modules

Common KNX devices

controllers - BUS/KNX load tables



Load table at 230 V a.c. 50-60Hz

Cat. No.	Outputs	 Halogen lamp	 ELV halogen lamp with ferromagnetic or electronic transformer	 Fluorescent tube	 LED and compact fluorescent lamp	 Fluorescent lamp with 1-10 V ballast	DALI	 Motors
False ceiling controllers								
0 488 64	4	-	-	-	-	-	4 x 32 ballasts	-
0 488 62	4	4 x 800 W	4 x 800 VA	4 x 1000 VA	4 x 1000 VA	4 x 1000 VA	-	-
Modular controllers								
0 026 98	-	-	-	-	-	-	64 ballasts	-
0 026 63	8	-	-	-	-	-	8 x 16 ballasts	-
0 026 59	2	2 x 400 W	2 x 400 VA	-	2 x 60 VA(*)	-	-	-
0 026 91	-	-	-	-	-	-	-	6 A x 4 outputs
0 026 61	4	4 x 1000 W	4 x 500 VA	4 x 500 VA	4 x 500 VA	-	-	4 x 500 W
0 026 62	8	8 x 1000 W	4 x 500 VA	8 x 500 VA	8 x 500 VA	-	-	8 x 500 W
0 484 18	4	4 x 500 W	4 x 250 VA	4 x 250 VA	4 x 80 VA	-	64 ballasts	4 x 250 VA
	4	4 x 1000 W	4 x 500 VA	4 x 500 VA	4 x 160 VA			4 x 500 VA
	2	2 x 3680 W	2 x 1000 VA	2 x 1000 VA	2 x 500 VA			2 x 500 VA
0 484 22	4	4 x 500 W	4 x 250 VA	4 x 250 VA	4 x 80 VA	-	64 ballasts	4 x 250 VA
	8	8 x 1000 W	8 x 500 VA	8 x 500 VA	8 x 160 VA			8 x 500 VA
	4	4 x 3680 W	4 x 1000 VA	4 x 1000 VA	4 x 500 VA			4 x 500 VA
0 026 80	4	4 x 3680 W	4 x 1000 VA	4 x (10 x (2 x 36 W))	4 x 500 VA	-	-	-
0 026 81	8	8 x 3680 W	8 x 1000 VA	12 x (10 x (2 x 36 W))	8 x 500 VA	-	-	-
0 026 82	12	12 x 3680 W	12 x 1000 VA	12 x 500 VA	12 x 500 VA	-	-	-
0 026 86	2	2 x 500 W	2 x 500 W	-	-	-	-	-
0 026 87	4	4 x 500 W	4 x 500 W	-	-	-	-	-
0 026 88	4	4 x 1000 VA	4 x 1000VA	-	-	-	-	-

*: Compatible with dimmable LED and compact fluorescent lamps

- ON/OFF
- Dimming
- Automation



0 026 55



0 026 93



0 035 16



0 035 12



0 035 43

Connected with the BUS/KNX cable
Configuration using ETS programming software

Pack	Cat. No.	BUS/KNX interface - voltage contact
1	0 026 55	Connects voltage free contacts devices (switches, push-buttons, alarms, etc.) to the BUS/KNX Modular 8 inputs 6 17.5 mm modules
1	0 026 93	Connects powered contacts devices (probes...) 2 17.5 DIN modules Flush mounting For installation in a flush-mounting box
1	0 026 92	4 inputs - 4 outputs
1	0 026 50	Scenario module Able to perform up to 8 scenarios and 8 events programs 1 17.5 mm module
1	0 035 16	Line coupler Provides galvanic isolation between lines Necessary in an installation where there are more than 64 KNX participants 2 17.5 mm DIN modules

Pack	Cat. No.	BUS/KNX - USB interface
1	0 035 47	Connects a PC to the BUS/KNX via the USB port 1 17.5 mm DIN module
1	0 035 12	Modular power supplies Powers one BUS/KNX line Integrated filter to prevent the short-circuit of BUS messages Connection by automatic terminals 4 17.5 mm DIN modules Voltage 120-230 V~ - 29 V=
1	0 026 94	With additional 29 V unfiltered output 320 mA 640 mA 6 17.5 mm DIN modules Voltage 120V~ 230 VAC - 29 V=
1	0 035 43	IP communication module BUS/KNX - IP gateway 2 functions: - IP interface: makes the link between the BUS/KNX infrastructure and the IP network for remote configuration using ETS software - Web communication interface for remotely managing via a dedicated Web page Allows operation from off site 4 17.5 mm DIN modules
1	0 026 38	IP/KNX router Can acts as main line or backbone coupler Links different KNX networks to each other via the IP infrastructure 2 17.5 mm DIN modules
1	0 488 79	BUS/KNX connector Black and red Supplied in boxes of 50
1	0 492 91	BUS/KNX cables Length 500 m 0.8 mm dia. quad Isolation 4000 V 1 pair: red/black
1	0 492 92	2 pairs: red/black and yellow/white

>>> Building management

active building management

BUS/KNX: overall control of the building

Apart from local control, BUS/KNX wiring allows other building applications to be supervised and integrated: lighting, HVAC, security, etc. It is ideal for meeting energy and operating performance needs and easy maintenance.

2 SOLUTIONS FOR ACTIVE BUILDING MANAGEMENT

> View, control, be warned

Supervision software for Legrand applications: energy metering, lighting management, guest room management, emergency lighting

> Interact, integrate

The IP device allows Legrand and other applications to interact with one another. And /or to integrate Legrand applications into a Building Management System



0 490 04

For overall building management

Operates with:

- the metering offer: uses RS 485/IP converter Cat.No 0 046 89
- the BUS/KNX lighting offer, with KNX/IP converter Cat.No 0 035 43
- the emergency lighting offer with addressable unit control interface Cat.No 0 626 00

Pack	Cat. No.	Legrand Supervision software
		Supervision software which displays operating screens for digital buildings: Provides button for controlling Displays values measures and the status of connected products Alarm management console Timer programming Is installed permanently on a dedicated PC Integrated assisted mode facilitating execution of the project plus display screens: pre-programming of Legrand solutions (electrical consumption measurement, lighting management, emergency lighting, fire alarms) Expert mode for handling third-party equipment (HVAC) and for customizing display screens
1	0 490 00	Ready to view, up to 125 points
1	0 490 01	Ready to view, up to 250 points
1	0 490 02	Ready to view, up to 500 points
1	0 490 03	Ready to view, up to 1000 points
1	0 490 04	Ready to view, up to 2000 points
		Building manager
1	0 035 44	IP device designed for the automated control of IP device buildings requiring interoperability between the different systems connected or requiring Legrand solutions to be integrated in a BMS: - Legrand solutions: lighting management, emergency lighting, power metering - other solutions: HVAC, etc. • Provides - data collection from the various systems: IP KNX, IP MODBUS, IP BACNET, IP SCS - programming of scripts (with algorithm), alarms and data history - exchange of collected data between systems (example: display on digital screen of power circuit consumption measurements) - sending of email alerts • Is installed in the VDI rack with dedicated patching to the various applications in the system • Can be linked to Supervision software Cat.Nos 0 490 00/01/02/03/04 for an overview of the installation



For configuration in expert mode,
Contact your sales department

Active building management with Legrand or other systems

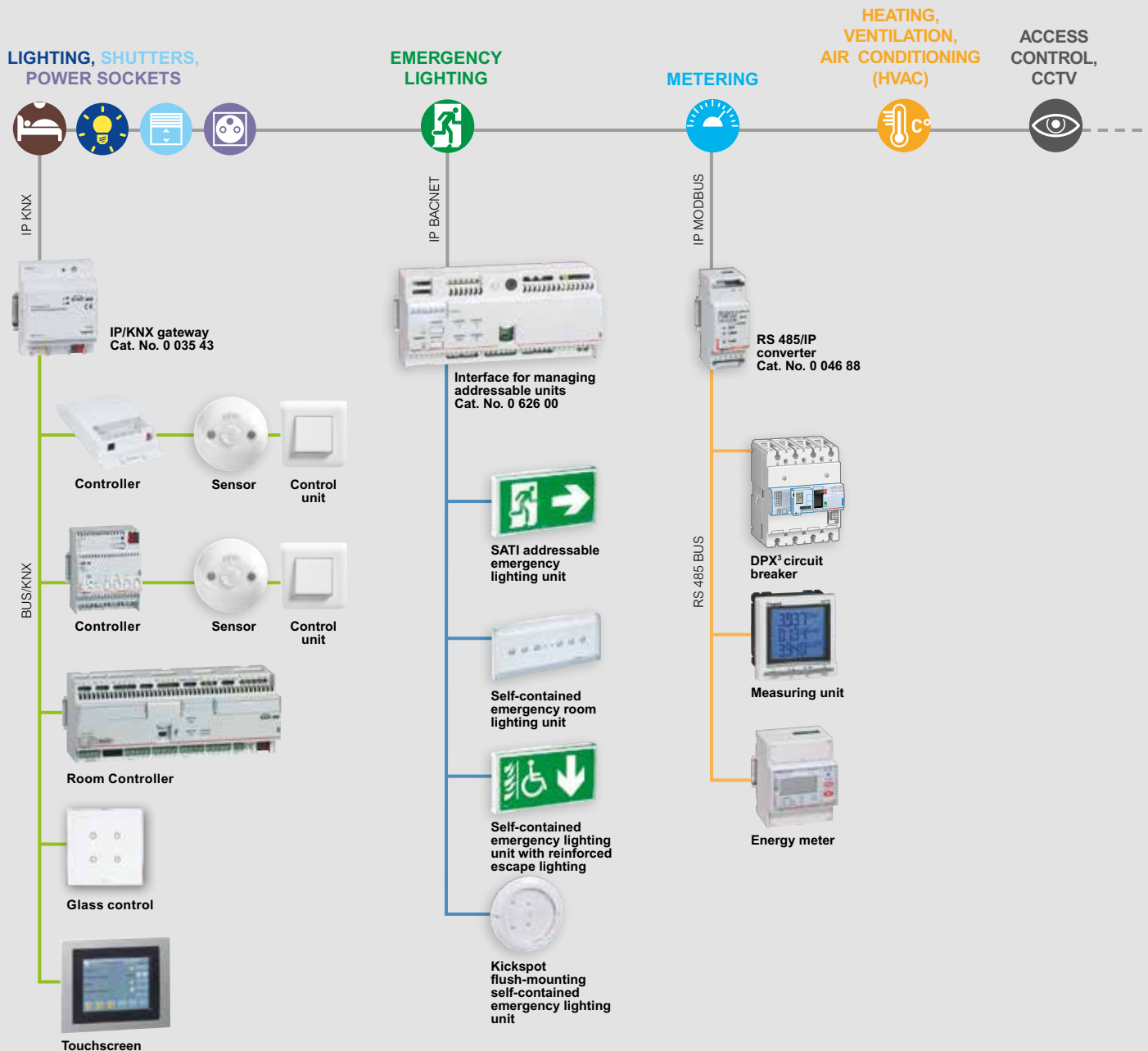


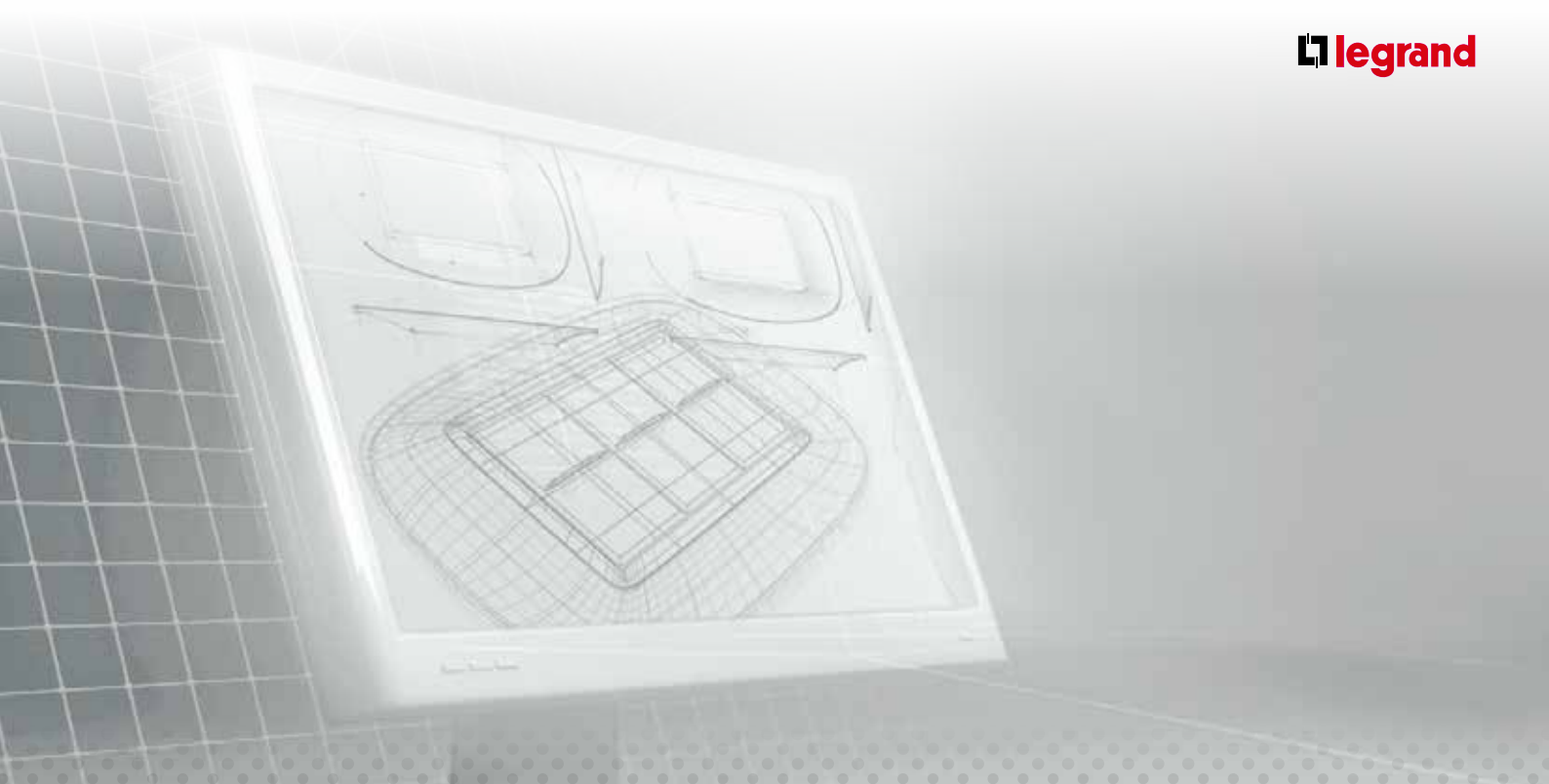
1st example: Active building management using Supervision software Cat. Nos. 0 490 00/01/02/03/04 providing displays, analyses and alerts



2nd example: Active building management using building manager decision maker Cat. No. 0 035 44 for interaction between connected systems and integration of those systems into a BMS:
 - Legrand solutions: lighting management, emergency lighting, power metering
 - other solutions: HVAC, etc.

Example: Guest room management, lighting management, emergency lighting, energy metering, ...

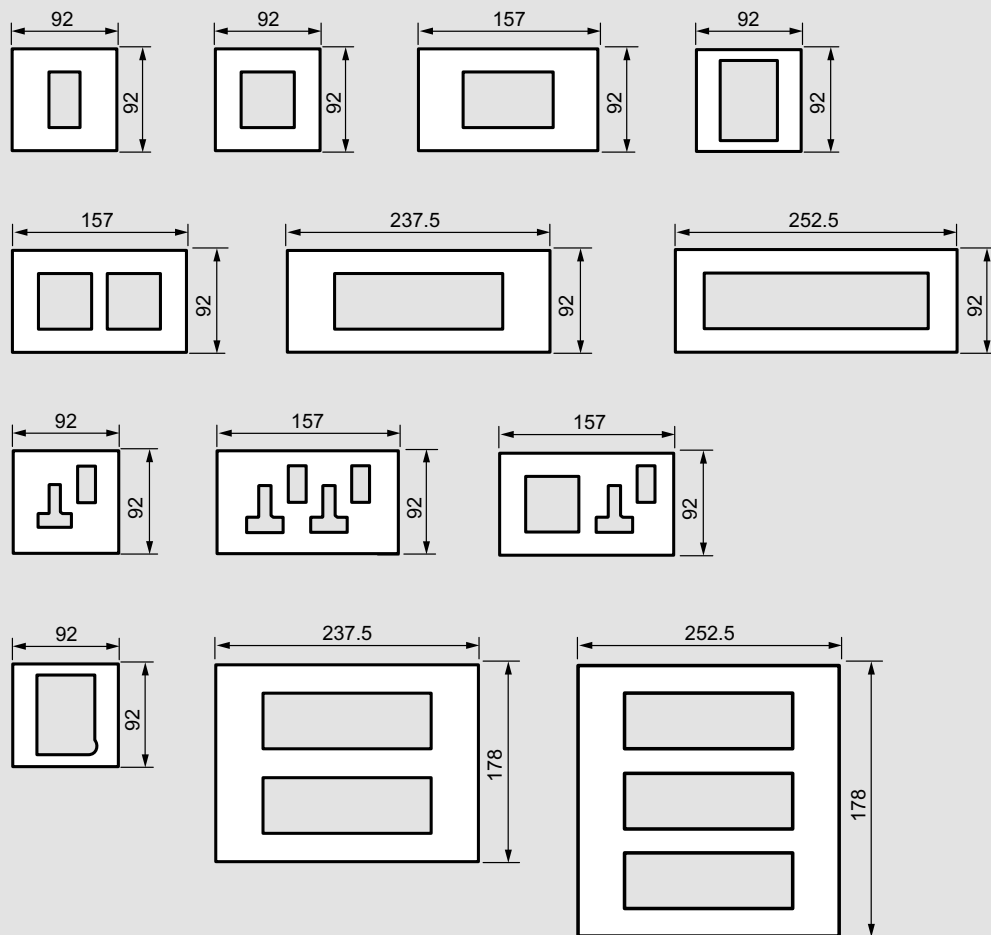




Contents

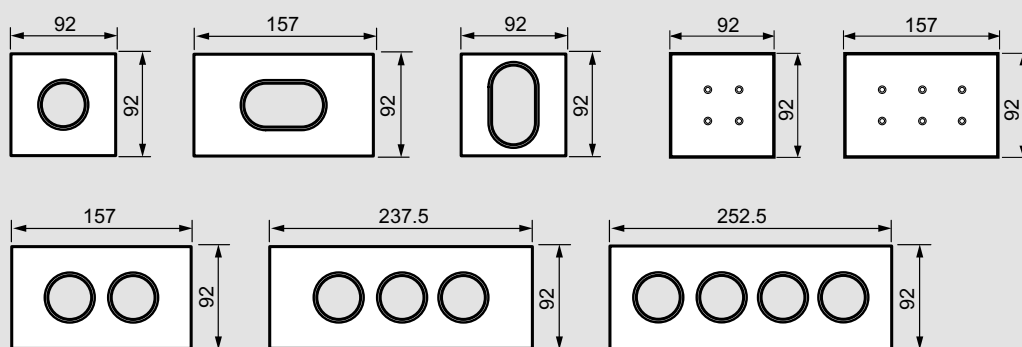
	63-68		
Dimensional data		Arteor	64
		Axolute	65
		Livinglight	66
		Other devices	67
	69-80		
Technical sheets		Room controllers	69

■ PLATES - SQUARE VERSION



■ PLATES - ROUND VERSION

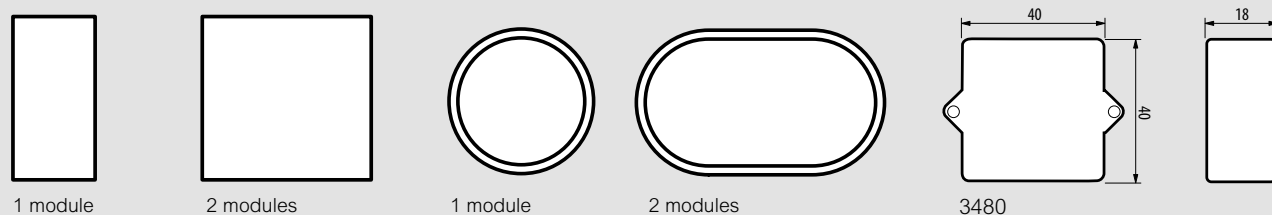
■ GLASS CONTROL



■ SQUARE MODULAR DEVICES

■ ROUND MODULAR DEVICES

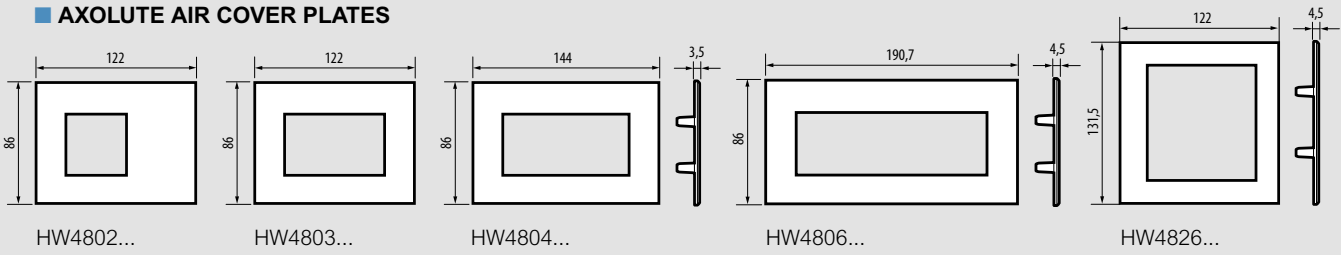
■ BASE INTERFACE MODULE



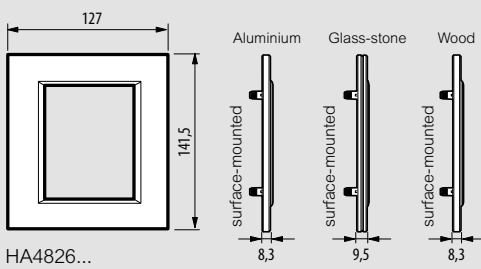
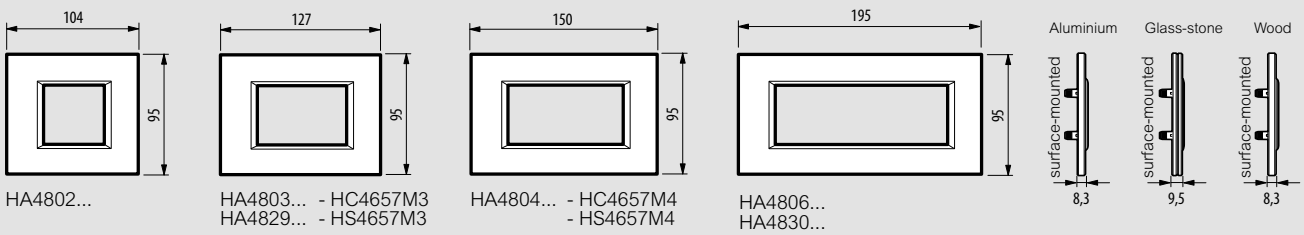
Dimensional data

Axolute

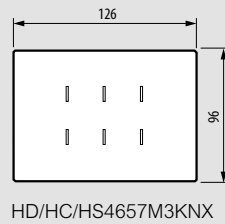
■ AXOLUTE AIR COVER PLATES



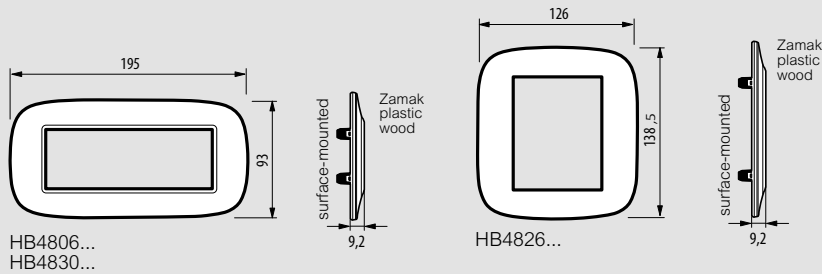
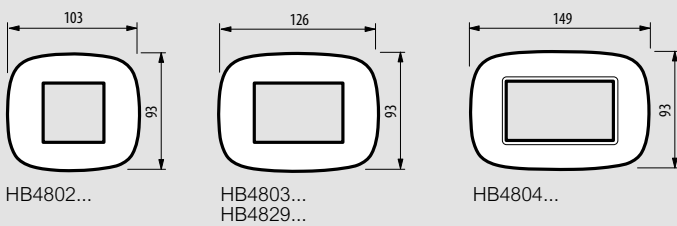
■ AXOLUTE RECTANGULAR COVER PLATES



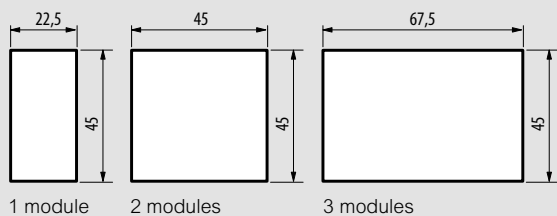
■ GLASS CONTROL



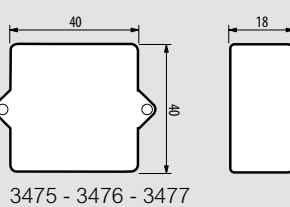
■ AXOLUTE ELLIPTICAL COVER PLATES



■ MODULAR DEVICES



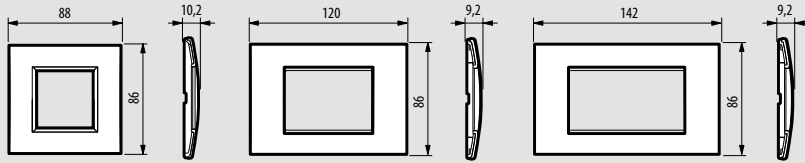
■ BASIC INTERFACE MODULE



Dimensional data

Livinglight

■ SQUARE COVER PLATES

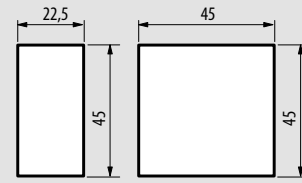


LNA4802...
LND4802KR

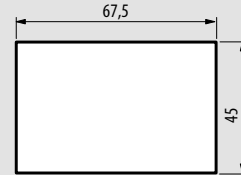
LNA4803...
LNA4819...
LND4803KR
LND4819KR

LNA4804...
LND4804KR

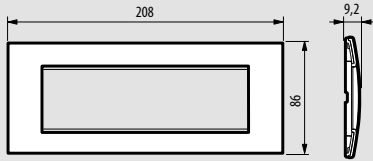
■ MODULAR DEVICES



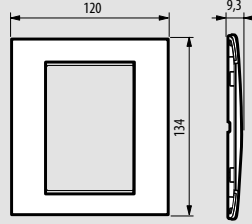
1 module 2 modules



3 modules

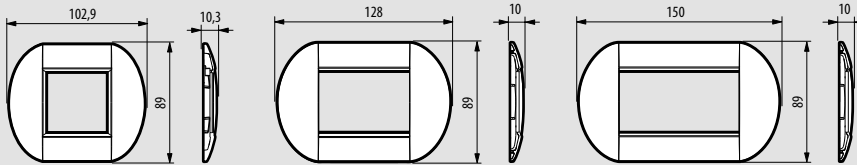


LNA4807...
LND4807KR



LNA4826...
LND4826KR

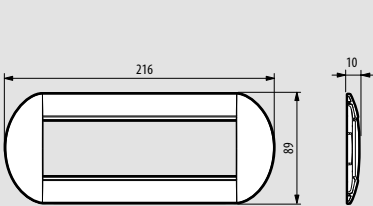
■ ROUND COVER PLATES



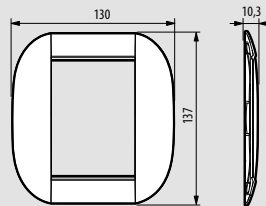
LNB4802...

LNB4803...

LNB4804...

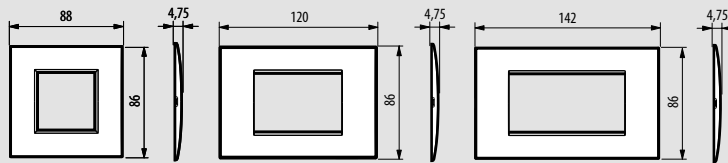


LNB4807...



LNB4826...

■ LIVINGLIGHT AIR COVER PLATES

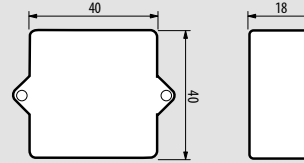


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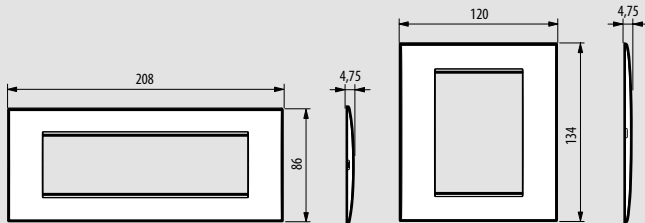
LNC4803...

LNC4804...

■ BASIC INTERFACE MODULE



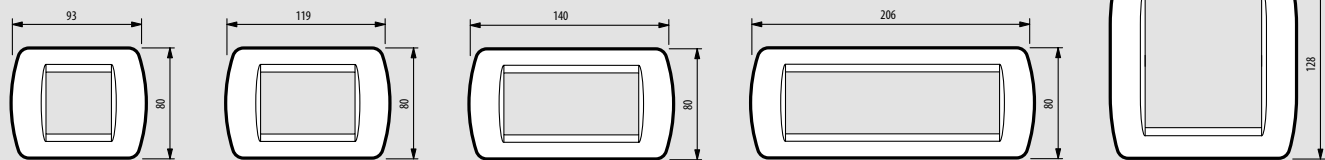
3475 - 3476 - 3477



LNC4807...

LNC4826...

■ LIVING INTERNATIONAL COVER PLATES



L4802..

L4803..

L4804..

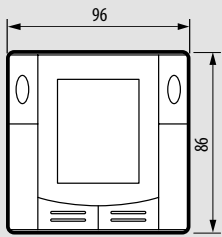
L4807..

L4826..

Dimensional data

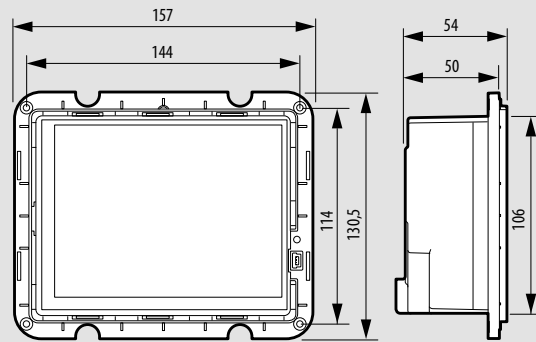
other device

CONTROL DEVICES



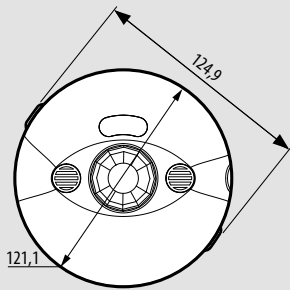
0 490 31

TOUCH CONTROLLER

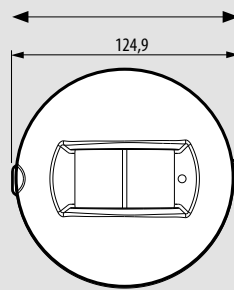
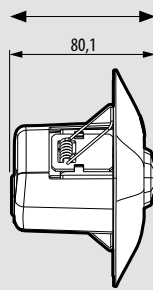


0 488 84

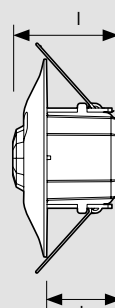
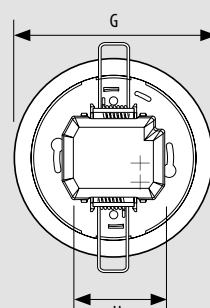
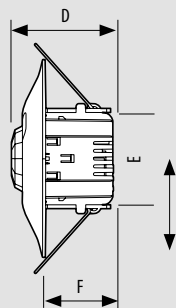
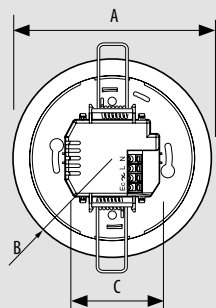
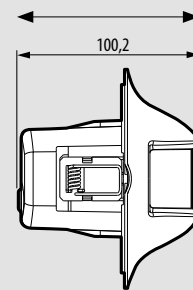
SENSORS



0 489 18



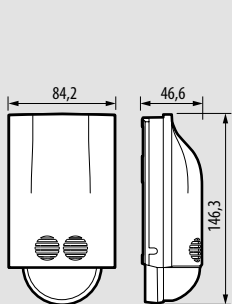
0 489 19



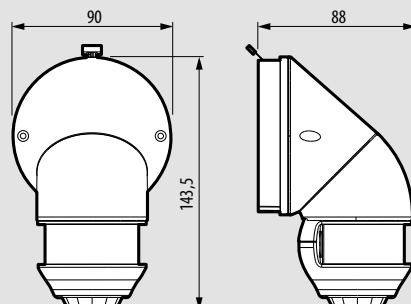
Without cover when installed without flush mounted boxes

With cover when installed in flush mounted boxes

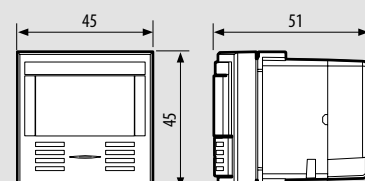
Item	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)
0 489 22	102	R:51	50	52,3	51,5	37	102	53,74	55,6	47



0 489 20



0 489 21

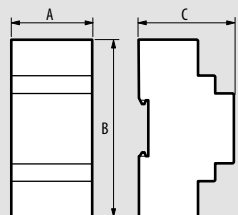


HD/HC/HS4434KNX
L/N/NT4434KNX

Dimensional data

other device

DIN DEVICES



2 moduli DIN

TABLE WITH DIN SIZES (mm)			
N° 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

DIMENSIONAL CONTROLLERS

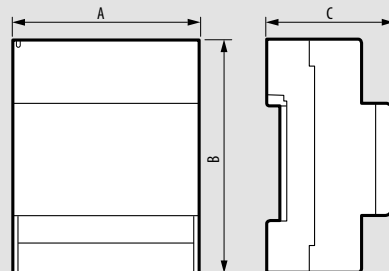
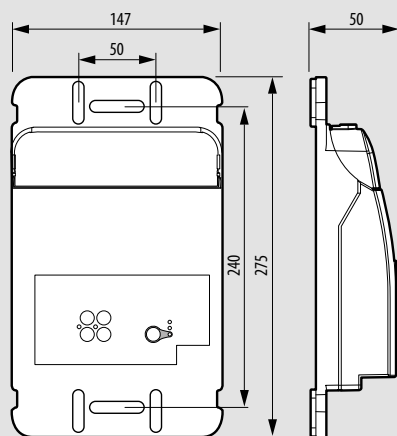


TABLE WITH DIN SIZES (mm)			
Item	A	B	C
0 026 35	106	90	86
0 025 59	70	90	61,5
0 026 60	70	90	55
0 026 61	70	90	55
0 026 62	70	90	55
0 026 63	70	80	55
0 026 80	70	90	86
0 026 81	140	90	86
0 026 82	210	90	86
0 026 86	140	90	86
0 026 88	140	90	86
0 026 91	70	90	86
0 484 18	140	83	66
0 484 22	213	83	66

CONTROLLERS



0 488 62 - 0 488 64

GATEWAY AND INTERFACES

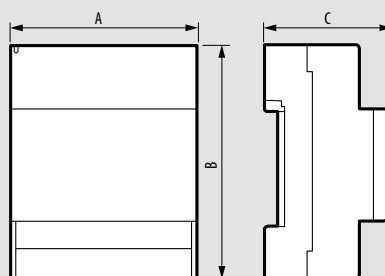
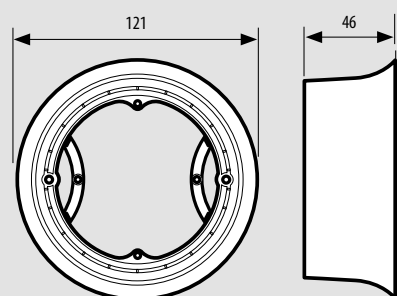
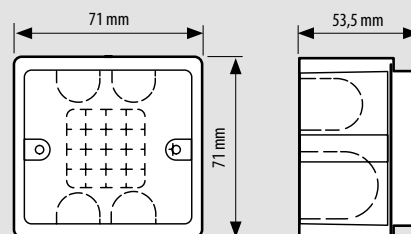


TABLE WITH DIN SIZES (mm)			
Item	A	B	C
0 026 55	105	90	55
0 026 92	46	46	11,7
0 026 93	35	80	55
0 026 94	105	90	55
0 035 12	72	90	66
0 035 16	36	90	55
0 035 43	86	55	70
0 035 47	18	90	55

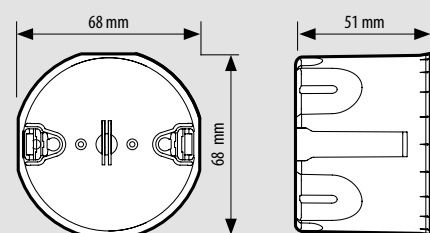
BOXES OF THE INSTALLATION



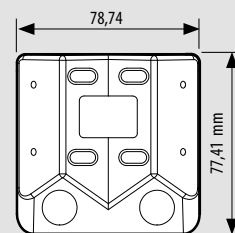
0 488 75



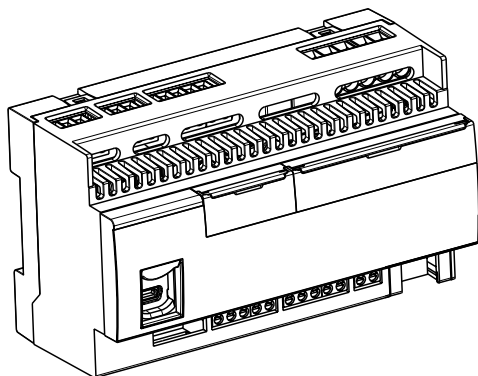
502E



PB502



0 489 71



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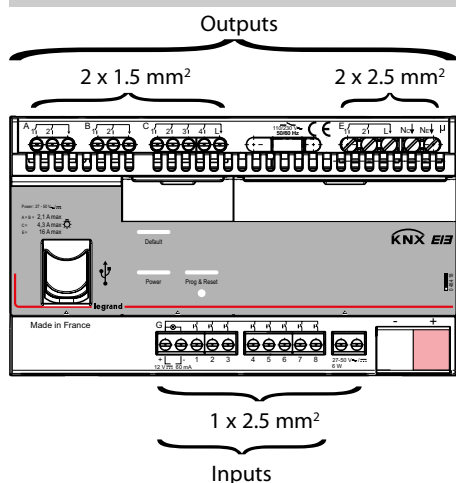
1. USE

The KNX multi-application modular controller has been specially designed to meet requirements for control in hotel rooms and meeting rooms.

It comprises:

- 10 binary outputs that can be configured to control lighting (1 block of 4 relays: 4.3 A max.), blinds (2 blocks of 2 relays: 2.1 A max. to be distributed in each block) and socket outlets (1 block of 2 relays: 16 A max.). Each output can be part of 5 scenarios and 3 different modes. 2 separate current measurements are incorporated.
- 8 configurable auxiliary inputs for ON/OFF, Dim +/-, scene and up/down/stop commands for roller blinds via switches, push-buttons or other volt-free contact devices.
- Functions for creating scenarios and advanced logic functions: 3 "logic blocks" for sending a command according to 3 conditions and 3 other "program blocks" for sending 5 different actions on 1 command.

2. TECHNICAL FEATURES



2. TECHNICAL FEATURES (continued)

Controller power supply	27-50 V \sim /=, 6 W
Terminal type	Screw
Number of load terminals	10 outputs { A - B: 2.1 A block C: 4.3 A block E: 16 A block
Number of auxiliary input terminals	8 inputs (G: 8-input block)
Capacity of load terminals	2 x 1.5 mm ² (A to C)
Capacity of auxiliary input terminals	2 x 2.5 mm ² (E)
KNX connection	0.6 to 0.8 mm ²
Contact type	Bistable relay (block E) and monostable relay (blocks A, B and C)
Location category	Indoor
Degree of protection	IP 20
Penetration by solid and liquid matter	(installation in an enclosure)
Impact resistance	IK 04
Number of modules	8
Operating temperature	-5 °C to +45 °C
Storage temperature	-20 °C to +70 °C
No-load power consumption	< 1 W
Power consumption on BUS	5 mA
Weight	85 g

Important: Neutral terminals necessary for:

- Synchronisation with the mains power supply
- Measurement of energy consumption

2. TECHNICAL FEATURES (continued)

		1		2		3		4		5		6		7		8		9	
OUT-PUTS A - B	230 V~	80 VA	0.3 A	250 VA	1.1 A	250 VA	1.1 A	2 (2 X 36) W	0.8 A	80 VA	0.3 A	80 VA	0.3 A	500 W	2.1 A	250 VA	1.1 A	250 VA	1.1 A
	110 V~	40 VA		125 VA		125 VA		1 (2 X 36) W		40 VA		40 VA		250 W		125 VA		125 VA	
	12 - 48 V~/V=	4-15 VA	0.3 A													13-52 VA	1.1 A	13-52 VA	1.1 A
OUTPUT C	230 V~	160 VA	0.7 A	500 VA	2.1 A	500 VA	2.1 A	4 (2 X 36) W	1.7 A	160 VA	0.7 A	160 VA	0.7 A	1000 W	4.3 A	500 VA	2.1 A	500 VA	2.1 A
	110 V~	80 VA		250 VA		250 VA		2 (2 X 36) W		80 VA		80 VA		500 W		250 VA		250 VA	
OUTPUT E	230 V~	500 VA	2.1 A	1000 VA	4.3 A	1000 VA	4.3 A	10 (2 X 36) W	4.3 A	500 VA	2.1 A	500 VA	2.1 A	3680 W	16 A	500 VA	2.1 A	500 VA	2.1 A
	110 V~	250 VA		500 VA		500 VA		5 (2 X 36) W		250 VA		250 VA		1760 W		250 VA		250 VA	

- 1 LED bulbs
- 2 ELV halogen, compact fluorescent and fluorescent bulbs with separate electronic ballast
- 3 ELV halogen, compact fluorescent and fluorescent bulbs with separate ferromagnetic ballast
- 4 Fluorescent tubes
- 5 Compact fluorescent bulbs with built-in electronic ballast
- 6 Compact fluorescent bulbs with built-in ferromagnetic ballast
- 7 Halogen bulbs
- 8 Motors
- 9 Contactors

Power supply unit

The controller must be powered by an external power supply. Permitted voltage range: 27 to 50 V ~/=/, 6 W min.

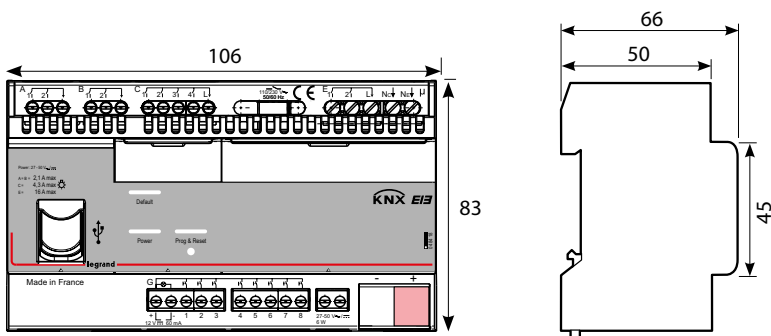
Power outputs

- Blocks A and B (2 blocks of 2 relays: 2.1 A max. to be distributed in each block)
For roller blind control functions, exclusive signs (e.g. Do Not Disturb/Make Up Room) and ON/OFF functions (for AC or DC load).
- Block C (1 block of 4 relays: 4.3 A max)
For controlling 4 separate loads. Comprises an energy meter.
- Block E (1 block of 2 relays: 16 A max.)
For controlling 2 separate loads. Comprises an energy meter.

Control inputs

- Block G
The controller has a block comprising 1 power supply output (12 V=) and 8 auxiliary inputs. The inputs can take switches or push-buttons which can be used for ON/OFF, dimming, up/down or scenario control, the settings of which can be configured using the ETS configuration software. The power supply enables the controls to have pilot lights (standby).

3. DIMENSIONS

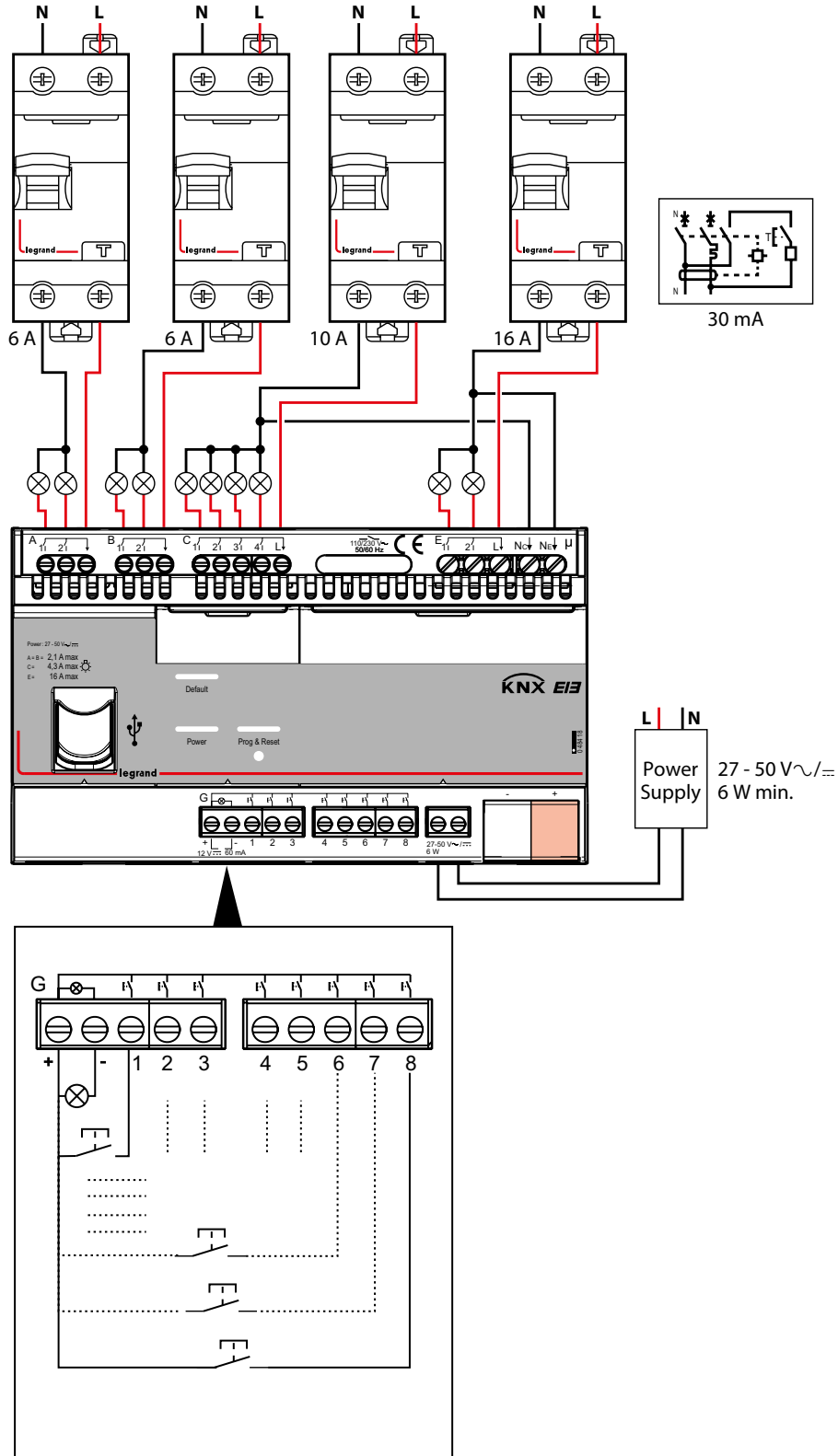


KNX multiapplication controller 10 outputs

Cat.No: 0 484 18

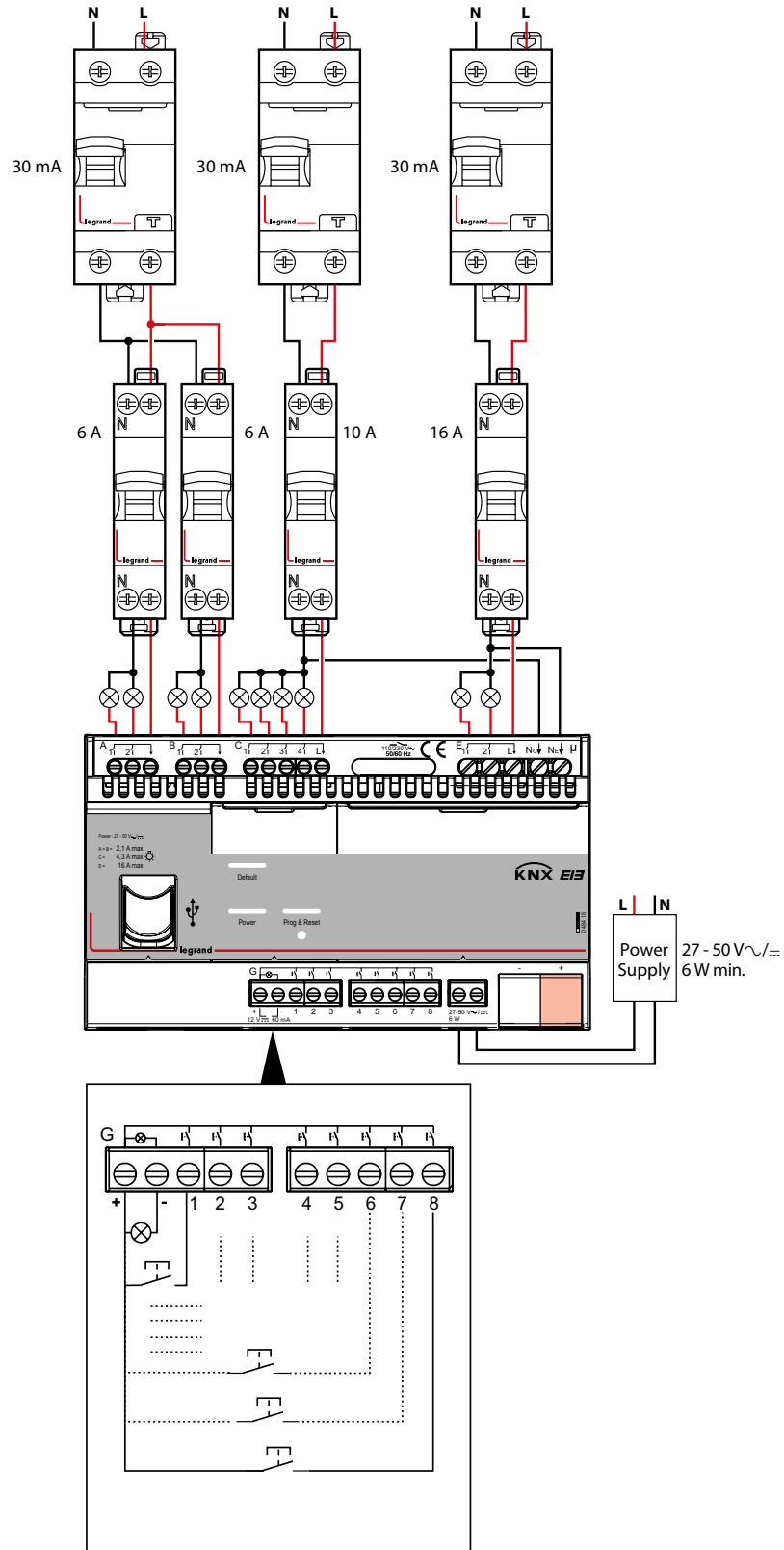
4. CONNECTION

■ Single-phase



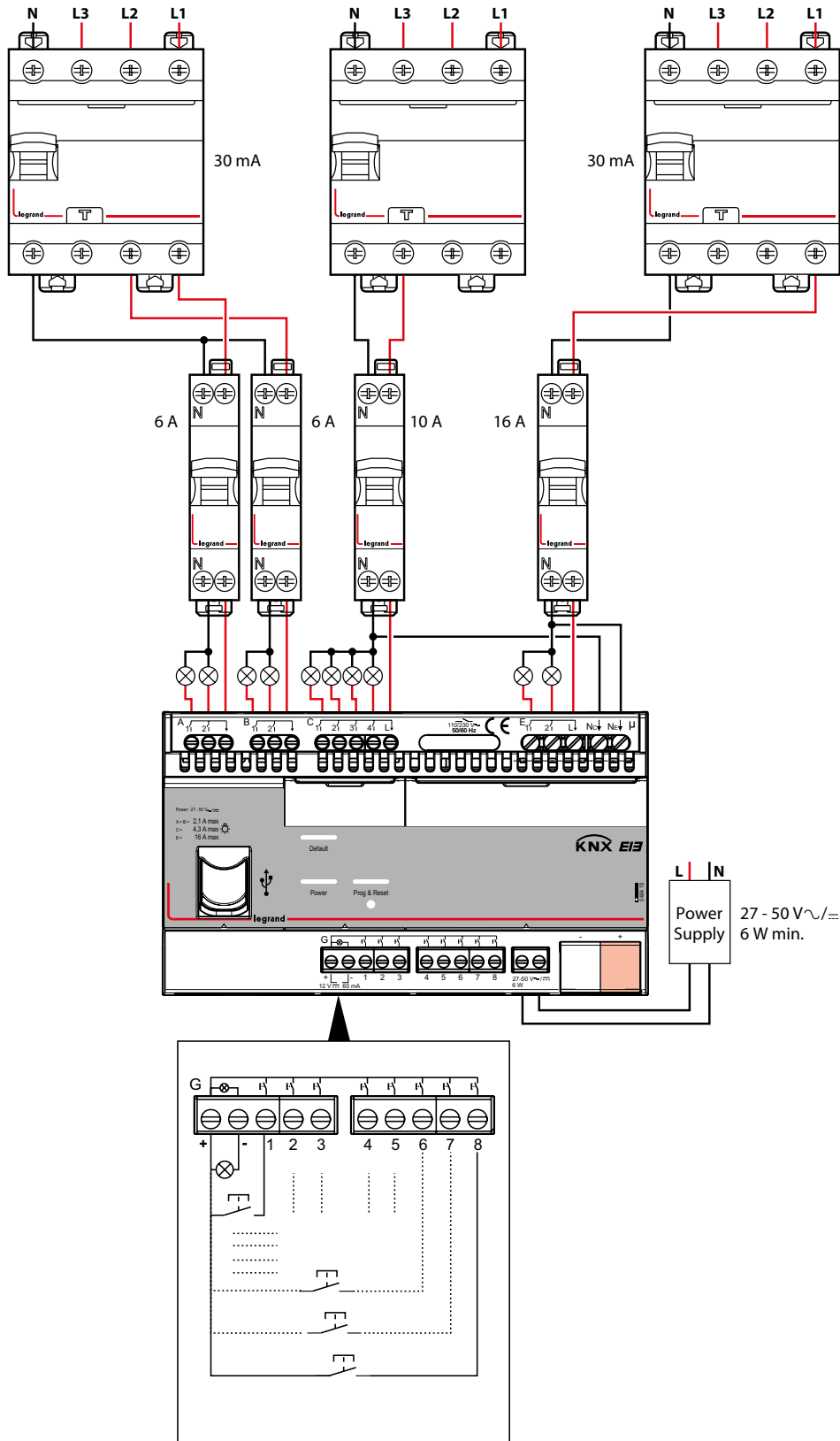
4. CONNECTION (continued)

■ **Single-phase**



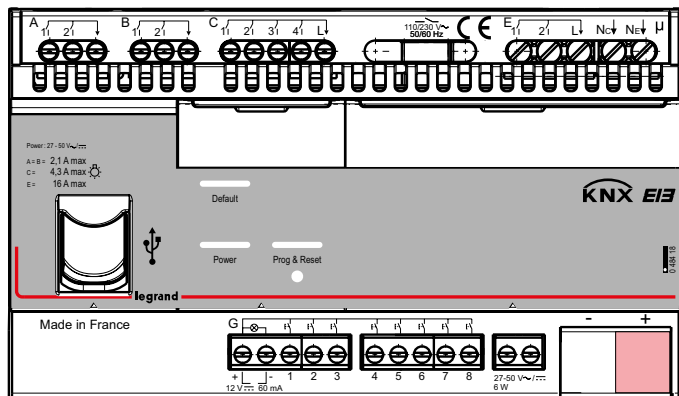
4. CONNECTION (continued)

■ Three-phase



5. OPERATION

The controller parameters are set using the ETS software tool (version 3f or later).



"Fault" LED Default

- On: indicates a fault. The controller must be restarted by switching the power off and then back on.
- Flashing: the controller is "busy". Do not switch off the power supply.
- Off: no fault.

Programming & Reset LED Prog & Reset

- Off: the controller is not in programming mode.
- Short press (less than 1 second):
 - On steady: the controller is in programming mode and the KNX cable is correctly connected/powerd.
 - Flashing (one 3-flash cycle): the KNX cable is not correctly connected/powerd. The controller is not in programming mode.
- Short press (less than 1 second) + long press (10 seconds): restoration of default settings. All the LEDs flash during the reset phase.

USB (do not use)

Reserved for firmware update by the manufacturer.

LED Power Power

- On steady: an ETS application is programmed.
- Flashing in 3-flash cycles: default settings (no ETS application programmed).
- Flashing in 1-flash cycles: the controller is initialising.
- Off:
 - USB not connected: the controller is not powered by the external power supply.
 - USB connected and controller powered: the controller is awaiting a software update.

Default settings (without ETS configuration)

Outputs A and B are configured by default for roller blind operation (30 s time delay).

Outputs C1 to E2 are configured by default for ON/OFF with no time delay.

Inputs G1 to G8 are configured by default for switch operation.

The actions of the default settings are defined in the table below.

Inputs	G1	G2	G3	G4	G5	G6	G7	G8
Outputs	A1/A2	B1/B2	C1	C2	C3	C4	E1	E2
Action	UP/DOWN 	UP/DOWN 	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF

6. STANDARDS AND APPROVALS

- Conforme: CE
- Product standards: IEC 60669-2-1
- Environmental standards:
 - EU directive 2002/96/EC: WEEE (Waste Electrical and Electronic Equipment)
 - EU directive 2002/95/EC: RoHS (Restriction of Hazardous Substances)
 - Regulations: ERP (public buildings), ERT (workplace buildings), IGH (high-rise buildings)
- KNX certificate n° 11/11130/13

7. MAINTENANCE

Do not use acetone, tar-removing cleaning agents or trichloroethylene.

- Resistant to the following products:
- Hexane
 - Methylated spirit
 - Soapy water
 - Diluted ammonia
 - Bleach diluted to 10%
 - Window-cleaning products

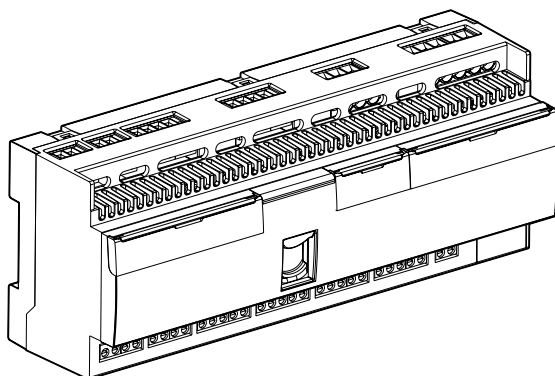
Caution: Always test before using other special cleaning products.

Note: All technical information is available at

www.legrandoc.com



DALI



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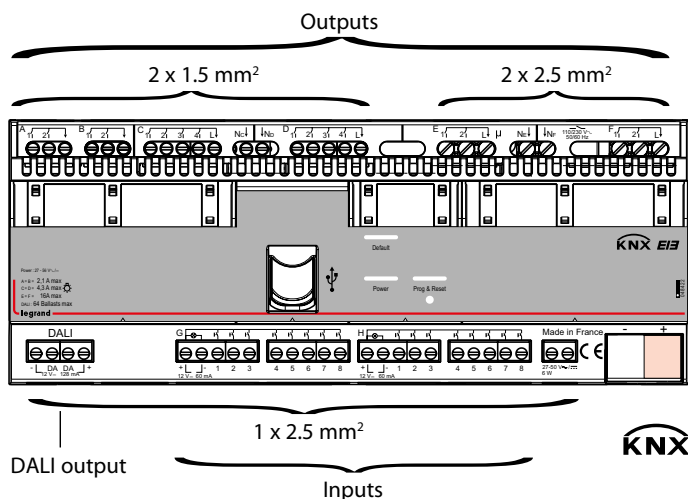
1. USE

The KNX multi-application modular controller has been specially designed to meet requirements for control in hotel rooms and meeting rooms.

It comprises:

- 16 binary outputs that can be configured to control lighting (2 blocks of 4 relays: 4.3 A max. to be distributed in each of the blocks), blinds (2 blocks of 2 relays: 2.1 A max. to be distributed in each of the blocks) and power sockets (2 blocks of 2 relays: 16 A max. to be distributed in each of the blocks). Each output can be part of 5 scenarios and 3 different modes. 4 separate current measurements are incorporated.
- 16 configurable auxiliary inputs for ON/OFF, Dim +/-, scene and raise/lower/stop commands for roller blinds via switches, pushbuttons or other volt-free contact devices.
- Functions for creating scenarios and advanced logic functions: 3 logic "blocks" for sending a command according to 3 conditions and 3 other "program blocks" for sending 5 different actions on 1 command.

2. TECHNICAL FEATURES



2. TECHNICAL FEATURES (CONTINUED)

Device power supply	27-50 V~ / --- - 6 W
Terminal type	Screw
Number of load terminals	16 outputs { A - B: 2.1 A blocks C - D: 4.3 A blocks E - F: 16 A blocks
Number of auxiliary input terminals	16 inputs (G - H: 8-input blocks)
Capacity of the load terminals	2 x 1.5 mm ² (A to D) 2 x 2.5 mm ² (E to F)
Capacity of the DALI load terminals	1 x 2.5 mm ²
Capacity of the auxiliary input terminals	1 x 2.5 mm ²
KNX connection	0.6 to 0.8 mm ²
Contact type	Bistable relay (blocks E & F), monostable relay (blocks A, B, C & D)
Location category	Indoor
Degree of protection	IP 20
Penetration by solid and liquid matter	(installation in an enclosure)
Impact resistance	IK 04
Number of modules	12
Usage temperature	-5°C to +45°C
Storage temperature	-20°C to +70°C
No-load power consumption	< 1 W
KNX/BUS absorption	5 mA
Weight	387 g

- Important:** Neutral terminals necessary for:
- Synchronisation with the mains power supply
 - Measurement of energy consumption

2. TECHNICAL FEATURES (CONTINUED)

	1		2		3		4		5		6		7		8		9		
Outputs A - B	230 V~ 110 V~ 12 - 48 V~/V=	80 VA 40 VA 4-15 VA	0.3 A 0.3 A	250 VA 125 VA	1.1 A 1.1 A	250 VA 125 VA	1.1 A 1.1 A	2 (2 x 36) W 1 (2 x 36) W	0.8 A	80 VA 40 VA	0.3 A 0.3 A	80 VA 40 VA	0.3 A 0.3 A	500 W 250 W	2.1 A	250 VA 125 VA	1.1 A 1.1 A	250 VA 125 VA	1.1 A 1.1 A
Outputs C - D	230 V~ 110 V~	160 VA 80 VA	0.7 A	500 VA 250 VA	2.1 A 2.1 A	500 VA 250 VA	2.1 A 2.1 A	4 (2 x 36) W 2 (2 x 36) W	1.7 A	160 VA 80 VA	0.7 A 0.7 A	160 VA 80 VA	0.7 A 0.7 A	1000 W 500 W	4.3 A	500 VA 250 VA	2.1 A 2.1 A	500 VA 250 VA	2.1 A 2.1 A
Outputs E - F	230 V~ 110 V~	500 VA 250 VA	2.1 A	1000 VA 500 VA	4.3 A 4.3 A	1000 VA 500 VA	4.3 A 4.3 A	10 (2 x 36) W 5 (2 x 36) W	4.3 A	500 VA 250 VA	2.1 A 2.1 A	500 VA 250 VA	2.1 A 2.1 A	3680 W 1760 W	16 A	500 VA 250 VA	2.1 A 2.1 A	500 VA 250 VA	2.1 A 2.1 A

- 1** LED bulbs
- 2** ELV halogen, compact fluorescent and fluorescent bulbs with separate electronic ballast
- 3** ELV halogen, compact fluorescent and fluorescent bulbs with separate ferromagnetic ballast
- 4** Fluorescent tubes
- 5** Compact fluorescent bulbs with built-in electronic ballast
- 6** Compact fluorescent bulbs with built-in ferromagnetic ballast
- 7** Halogen bulbs
- 8** Motors
- 9** Contactors

Power supply unit

The device must be powered by an external power supply. Permitted voltage range: 27 to 50 V ~/=/, 6 W min.

Power outputs

- Blocks A and B (2 blocks of 2 relays: 2.1 A max. to be distributed in each of the blocks). For roller blind control functions, exclusive signs (e.g. Do not disturb/Room service) and ON/OFF functions (for AC or DC load).
- Blocks C and D (2 blocks of 4 relays: 4.3 A max. to be distributed in each of the blocks). For controlling 4 separate loads per block. Each block includes energy measurement.
- Blocks E and F (2 blocks of 2 relays: 16 A max. to be distributed in each of the blocks). For controlling 2 separate loads per block. Each block includes energy measurement.

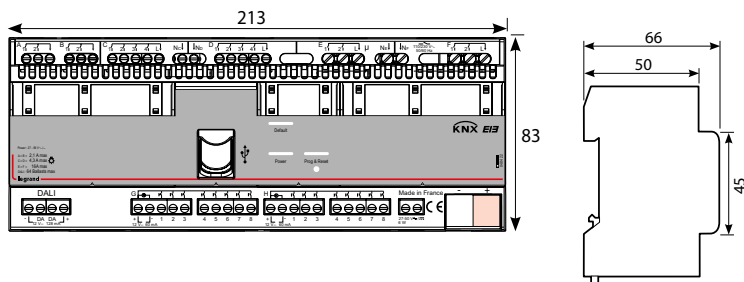
DALI output

For controlling 64 DALI ballasts in Broadcast mode. Pairing between the device and the DALI output is not necessary. The DALI BUS power supply is incorporated in the device. I_{max} 128 mA/12 V_{DC}. If I is greater than 128 mA, use an external power supply (remove the jumpers from the DALI terminals).

Control inputs

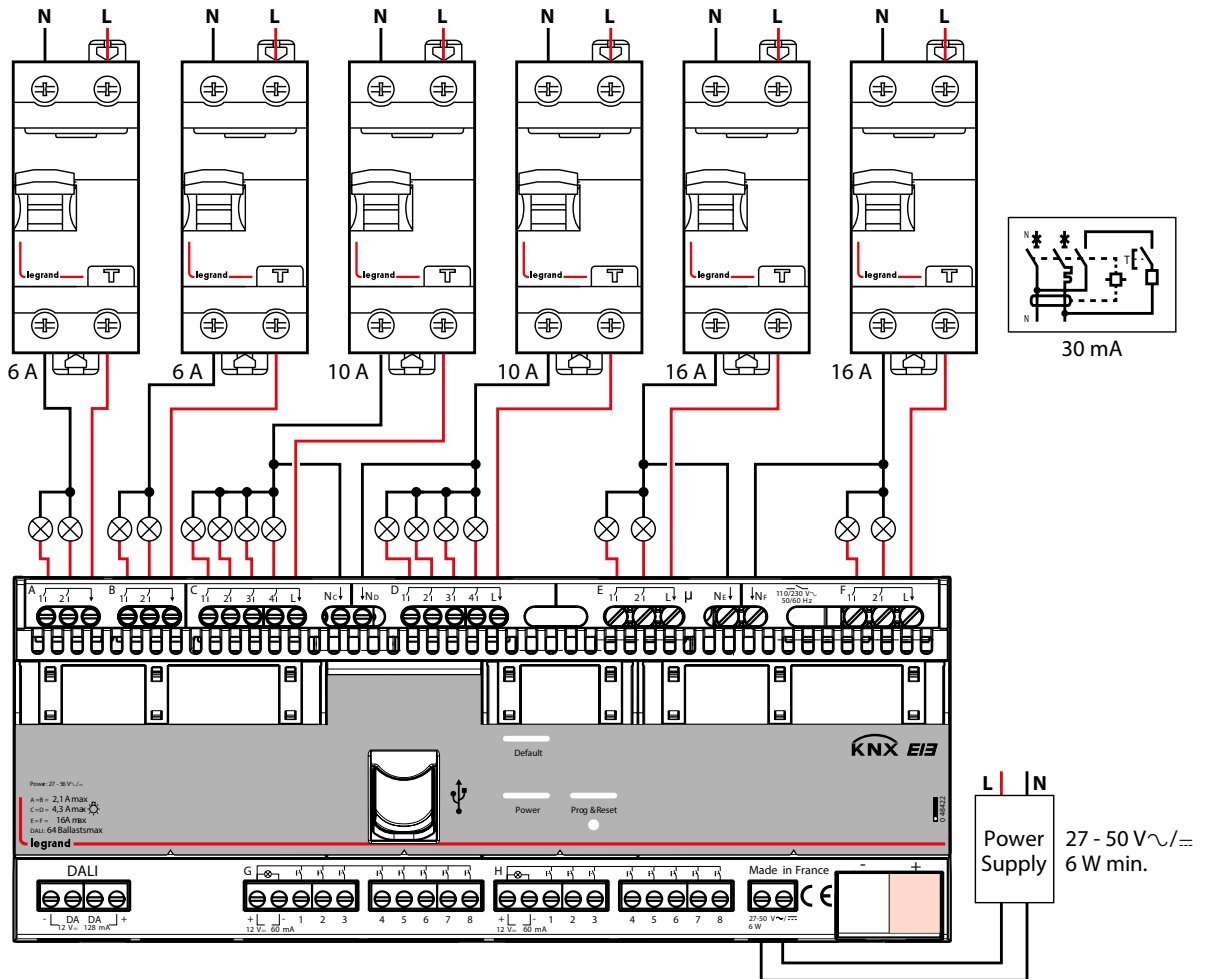
- Blocks G and H.
The device has 2 blocks each one having power supply output (12 V_{DC}) and 8 auxiliary inputs. Switches or pushbuttons can be connected to the inputs in order to send ON/OFF, dimming, shutter raising/lowering or scenario control commands, their settings can be configured using the ETS configuration software. The power supply enables the controls to have pilot lights (standby).

3. DIMENSIONS



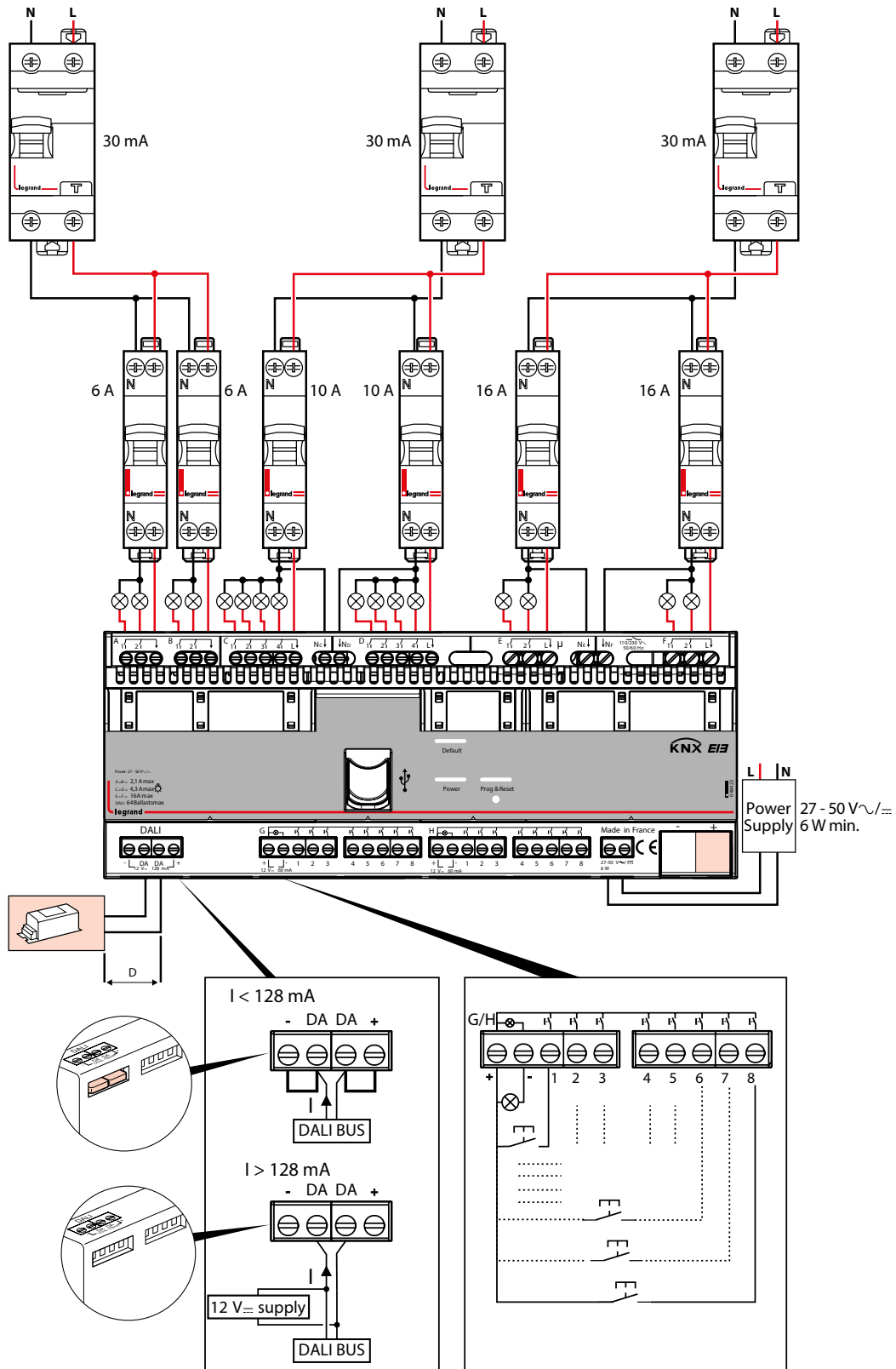
4. CONNECTION

• Single phase



4. CONNECTION (CONTINUED)

• Single phase



D	Ø
≤ 100 m	0.5 mm ²
≤ 150 m	0.75 mm ²
≤ 300 m	1.5 mm ²

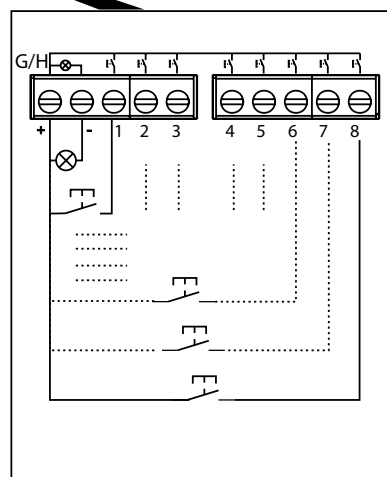
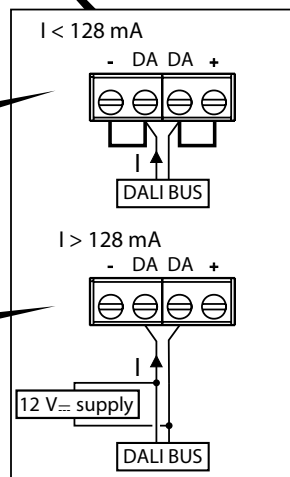
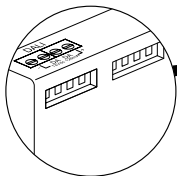
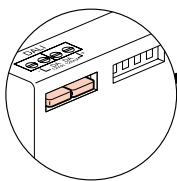
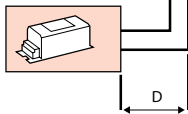
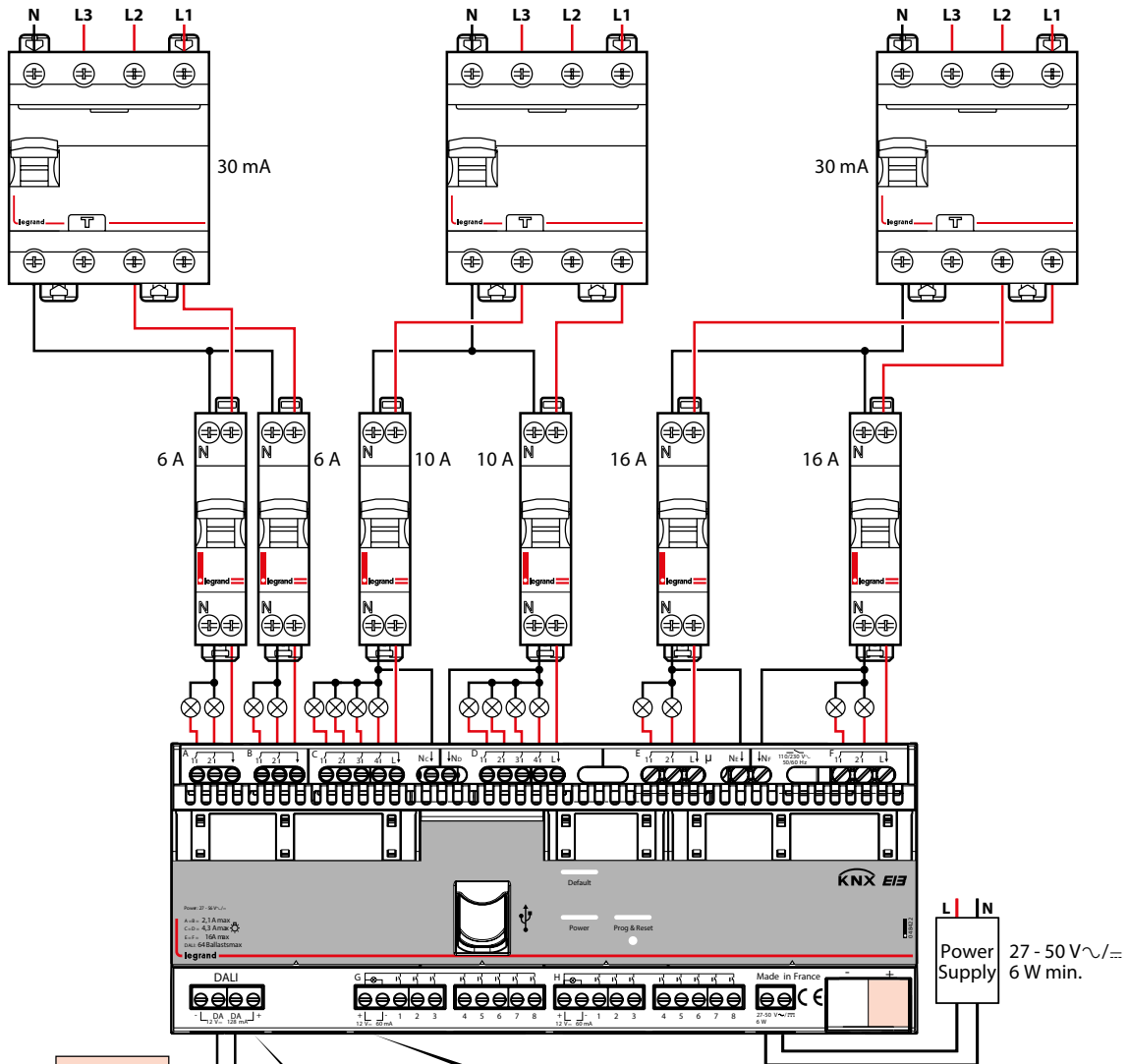
The room controller has a 12 V - 128 mA power supply for the DALI output. With the jumpers connected, it can power the DALI BUS.

KNX multiapplication controller 16 outputs

Catalogue number(s): 0 484 22

4. CONNECTION (CONTINUED)

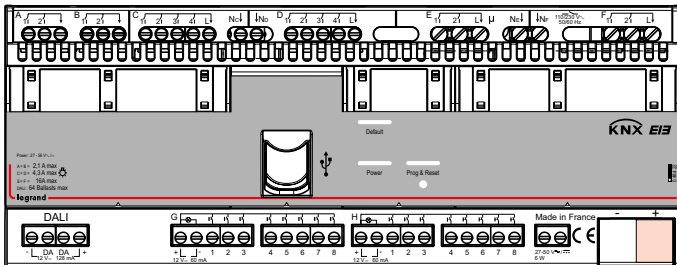
• Three phase



D	∅
≤ 100 m	0.5 mm ²
≤ 150 m	0.75 mm ²
≤ 300 m	1.5 mm ²

5. OPERATION

All device settings must be done using the ETS software tool (version 3f or later).



Power LED Power

- ON steady: an ETS application is programmed
- Flashing in 3-flash cycles: default settings (no ETS application programmed)
- Flashing in 1-flash cycles: the device is initialising
- OFF:
- USB not connected: the device is not powered by the external power supply.
- USB connected and device powered: the device is awaiting a software update

Default settings (without ETS configuration)

Outputs A and B are configured by default for roller blind operation (30 s time delay).

Outputs C1 to F2 are configured by default for ON/OFF with no time delay.

Inputs G1 to H8 are configured by default for switch operation.

The actions of the default settings are defined in the table below.

Inputs	G1	G2	G3	G4	G5	G6	G7	G8	H1	H2	H3	H4	H5	H6	H7	H8
Outputs	A1/A2	B1/B2	C1	C2	C3	C4	D1	D2	D3	D4	E1	E2	F1	F2	DALI	DALI
Action	UP/ DOWN	UP/ DOWN	ON/ OFF	ON/ OFF	ON/ OFF	ON/ OFF	ON/ OFF	ON/ OFF	ON/ OFF	ON/ OFF	ON/ OFF	ON/ OFF	ON/ OFF	ON/ OFF	100%/ OFF	100%/ OFF

6. STANDARDS AND APPROVALS

- Conforme: CE
- Product standards: IEC 60669-2-1
- Environmental standards:
 - EU directive 2002/96/EC: WEEE (Waste Electrical and Electronic Equipment)
 - EU directive 2002/95/EC: RoHS (Restriction of Hazardous Substances)
 - Regulations: ERP (public buildings)
 - ERT (workplace buildings)
 - IGH (high-rise buildings)
- KNX certificate n° 11/11130/13

Note: All technical information is available at

www.legrandoc.com

"Fault" LED Default

- ON: indicates a fault. The device must be restarted by switching the power off and then back on.
- Flashing: the device is "busy". Do not switch off the power supply
- OFF: no fault

Programming & Reset LED Prog & Reset

- OFF: the device is not in programming mode.
- Short press (less than 1 second):
 - On steady: the device is in programming mode and the KNX cable is correctly connected/powered
 - Flashing (1 cycle of 3 flashes): the KNX cable is not correctly connected/powered. The device is not in programming mode
- Short press (less than 1 second) + long press (10 seconds): restoration of default settings. All the LEDs flash during the reset phase

USB (do not use)

Reserved for firmware update by the manufacturer.

7. MAINTENANCE

Do not use acetone, tar-removing cleaning agents or trichloroethylene.

Resistant to the following products: - Hexane (En 60669-1)

- Methylated spirit
- Soapy water
- Diluted ammonia
- Bleach diluted to 10%
- Window-cleaning products

Caution: Always test before using other special cleaning products.

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