



BUS/KNX SOLUTIONS

ACTIVE CONTROL OF LIGHTING,
SHUTTERS, AND SOCKET OUTLETS

CATALOGUE
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THE GLOBAL SPECIALIST
IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES





NEW GENERATION LIGHTING MANAGEMENT

A global specialist in electrical infrastructures in buildings and a major force in new generation buildings, Legrand is developing its lighting control systems towards systems providing complete control of a building: BUS/KNX solutions.



**THE NEW
LEGRAND
BUS/KNX RANGE
MEETS THE
SPECIFIC
NEEDS OF
COMMERCIAL
SECTOR
BUILDINGS**

Optimised energy consumption

Designed ideally for low consumption accredited constructions, KNX solutions provide optimum management of lighting, shutters, socket outlets and ventilation: combined with energy management and supervision solutions, these "Smart Grid Ready" solutions allow you to optimise operating procedures in your installation according to your consumption. Legrand therefore contributes to reducing a building's overall operating costs and meeting the requirements of LEED and BREEAM buildings, etc. so that you can provide a perfect response to your customers' energy performance requirements.

Increased comfort

Legrand BUS/KNX solutions have the ability to manage all types of light source (LEDs, DALI, 1-10 V ballasts, etc.) in response to different situations (daylight, presence/absence, dimming, scenarios) making the user's daily life easier by adapting to their needs and living/working habits.

Even greater flexibility

With simple programming, Legrand BUS/KNX solutions make it possible to reconfigure the installation in a building really easily: no need for additional wiring!



A worldwide protocol in building management systems, KNX is an open, interoperable standard providing any user with great freedom of use and long-life installations. Recognised by ISO/IEC 14543-3-x as the international standard for home and building control, KNX meets the requirements of two European standards, CENELEC EN50090 and CEN EN 13321-1.

COMPLETE BUILDING MANAGEMENT

Beyond providing optimum control of lighting and shutters, the KNX protocol is interoperable with all applications installed in commercial sector building (heating and ventilation, fire alarms, emergency lighting, etc.), whoever supplies them. It can therefore be integrated into an active general building management system, making it possible to display consumption or to be alerted when a fault occurs!

COMPLETE HIGH-PERFORMANCE SOLUTIONS

The new Legrand BUS/KNX offer, with its complete high-performance solutions, meets the specific needs of a commercial sector building, so you can ensure that your customers have an optimised, flexible and open installation.





06

OPTIMISED CONTROL

A core business for Legrand, control is enhanced with multiple possibilities: lighting comfort, environment scenarios, combinations of several functions, etc. Discover the Legrand BUS/KNX offer, combining performance, aesthetics and comfort for a complete, optimised response to your customers' needs.

12

SIMPLIFIED INSTALLATION

Installed in a suspended ceiling or cabinet, controllers are easy to wire and can control all types of load.

16

FLEXIBLE, RELIABLE, AND CONSISTENT CONFIGURATION

Having access to ETS4, the only tool that connects all KNX devices to a strong, well known and shared configuration method, ensures a good operating system. Legrand also offers the option of using its special configuration tool to quickly manage operating settings; it combines ease of use with reliable settings.

18

SUPERVISION SOFTWARE

With the Legrand lighting management solution, you can supervise your installation with just a few clicks!

OPTIMISED CONTROL

An essential solution for special or occasional applications, 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, five designs

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



ARTEOR



AXOLUTE



CÉLIANE



MOSAIC



LIVINGLIGHT

“
**Really clever,
infinitely
stylish!**

A wide range of mechanisms for everyday comfort

There are three types of mechanism available for user convenience.

Functional diversity

KNX control units provide multiple functions for managing lighting, shutters, socket outlets and scenarios.



SIMPLE



WITH LABEL HOLDER



TOUCH

"Basic" functions Optimised ergonomics thanks to programming

- ON/OFF switching
- Dimming up and down
- Roller shutters: raise, lower, stop
- Scenario: send a scenario number, save scenario
- Send one or two values: lighting level, position of shutters/slats, etc.

"Advanced functions" The Legrand plus!

As well as simple functions, Legrand offers you multi-control functions for a more comprehensive management of your installation:

- Send priority: ON/OFF locking and unlocking
- Send incrementing commands (by scrolling through the options): each press refers to a command. Example: 1st press = comfort (command 1), 2nd press = stand-by (command 2), 3rd press = eco (command 3), 4th press = comfort (command 1)
- Dual action transmission: send two commands. This function allows products which do not have a scenario function to be linked to a scenario.
- Mode 1/Mode 2 conditional transmission: send a command or a second different command, depending on a condition being met. The control unit has the ability to send commands to different circuits depending on an event.



MANUAL CONTROL UNITS

LEDs for clear information

All controls, whether a push-button or a touch plate, are fitted with RGB LEDs, each of which can produce twelve different colours: green, blue, white, orange, gold, yellow, turquoise, cyan, light blue, violet, magenta, purple.

Configurable using ETS4 software (see p. 16), LEDs display the load status and status feedback and can be used to customise the control unit status using colours, flashing, and brightness.

Status displays

- Status feedback from actuators/ controllers: ON or OFF
- System status feedback: context information indicated by the BUS. Examples: over-consumption, broken lamp, too much wind for roller shutters, etc.

Customizing the status

- Adjustment of the colour and behaviour through different modes. The default modes are:
 - ON = steady green
 - OFF = steady blue
 - Alarm = flashing red (not modifiable)
 - Control de-activated = steady orange
- Adjustment of brightness from 0 to 100% according to three values:
 - Normal (adjustable value)
 - Eco (adjustable value)
 - Stand-by (non-adjustable value)



“ Set colour and brightness according to needs

Wireless, no-battery controls

With one to four buttons and 2 or 4 inputs, they control lighting (ON/OFF, dimming) and shutters (raise/lower/stop).

With the KNX wireless interface, wireless controls without batteries can communicate with BUS/KNX controllers for even greater flexible and effective control!

THE +

It's the ideal solution for open-plan offices where the installation has to be easily adaptable in case the working area is re-configured:

- no vertical wiring
- installed in a suspended ceiling
- battery-free operation



More advanced control

The 5.7" touch screen is an automation device able to manage up to 110 KNX functions. It is also able to receive and display system data such as an energy consumption profile (graph), temperature, dimming information and many more.

By simply pressing a key on the multi-scenario touchscreen, pre-programmed scenarios are selected. Example: in a meeting room, the "Projection" scenario causes the screen to drop down, lowers the blinds and dims the lights.

THE +

- Convenient to use: comprehensive, centralised management operated from a single control unit.
- Performance: controls and displays up to 110 standard functions as well as a number of special ones.
- Flexibility: ability to switch between manual and programmed control.



DETECTORS

Energy performance and operating performance

A sustainable approach

Apart from simple ON/OFF and dimming controls, detectors provide access to the advanced automation functions required in any "green" building:

- stand-by/maintained dimming
- programmed lighting maintenance
- scenario triggering dependent on presence/absence, natural light levels or the time

Flexibility & Efficiency

- Detectors provide an installation with flexibility: their operation and programming can be adapted according to external parameters (over-consumption, alarm, etc.)
- Detectors constantly measure daylight levels. In combination with controllers they provide a better understanding of the detection area and makes it possible to adapt lighting in response to natural light levels.
Note: it is possible for there to be several dimming levels within a single space!

Supervision

KNX detectors provide any supervision system with useful key information:

- indication of presence
- load status and dimming level (as a %)
- light level in real time (in lux)
- system status: auto, controlled, forced, programmed

3 fixing systems for optimum flexibility of installation

Suspended ceiling

The detectors are installed using springs (supplied) or in a Batibox or can be surface mounted.



SOLUTIONS FOR CORRIDORS, OUTDOOR CAR PARKS, BASEMENTS AND WORK AREAS

Wall - flush-mounting

Products are installed in a Batibox.



SOLUTIONS FOR SMALL PREMISES AND BATHROOMS

Wall - surface-mounting

Products are installed in a surface-mounted frame and can be fixed in a corner in certain cases.



SOLUTIONS FOR OUTDOOR CAR PARKS, BASEMENTS, SMALL PREMISES, BATHROOMS AND WORK AREAS

“
Perfect detection
in any location!”

The power of two detection technologies

Infrared detection (PIR)

Suitable for detecting wide amplitude movements such as walking, infrared technology provides optimum lighting management in passage areas such as corridors.



CAT. NO. 0 489 21
PIR detection with
270° movable head
Range 20 m
IP 55
Wall or ceiling
surface mounting

CAT. NO. 0 489 19
360° PIR double detection
Lateral range 2 x 12 m
IP 20
Ceiling mounted

Infrared + ultrasound detection (PIR/US)

The exclusive coupling of two technologies consolidates the presence information and guarantees the detection of smaller movements for greater effectiveness, which makes the difference in work areas.



CAT. NO. 0 489 20
180° PIR/US detection
Front range 8 m
IP 42
Surface mounted on
the wall

CAT. NO. 0 489 18
360° PIR/US detection
Range 8 m
IP 20
Ceiling mounted

Smart detection

Thanks to the combination of ETS4 and the 088230 configuration tool, it is possible to set/modify detector parameters simply and quickly for optimum detection!

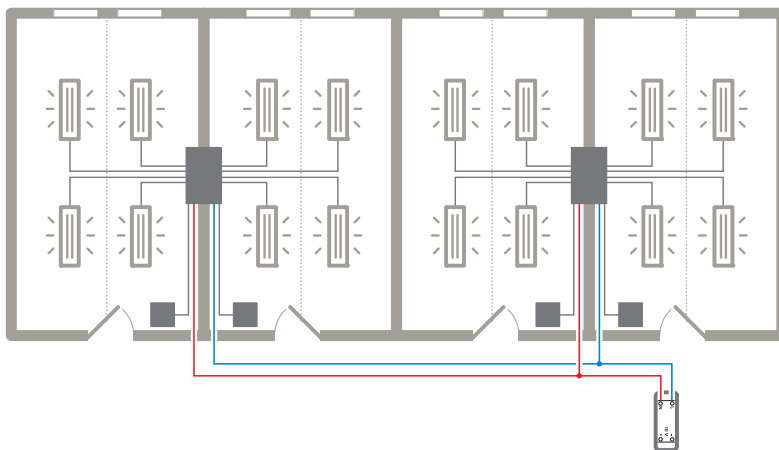
→ SEE PAGE 16

SIMPLIFIED INSTALLATION

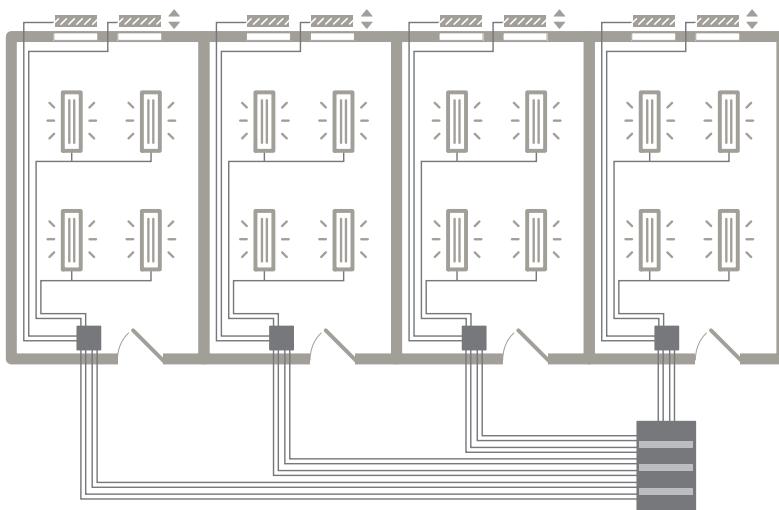
Equipped with different outputs, controllers (also called actuators) receive commands from the control units and act on lighting or shutter loads. Their installation may take one of two from factors.

DISTRIBUTED INSTALLATION

In a system it consists in having the controllers locally installed in false ceilings where there are the load and not in the main cabinet as usual.



DECENTRALISED
SMART
INSTALLATION



CENTRALIZED
INSTALLATION

False ceiling controllers for dimming

These power units control lighting loads. In order to operate, they have to be linked to one or more detectors and/or remote auxiliary control units. Because they are situated near the loads to be controlled, they provide savings in the cables to be routed and in wiring time. They also save space in the consumer unit.



FOR THE DALI PROTOCOL,
8 OUTPUTS
(available with 4 outputs also)

FOR 1-10 V BALLASTS,
4 OUTPUTS

FOR LV AND ELV HALOGEN
LAMPS, 2 OUTPUTS

“ Quicker and easier cabling

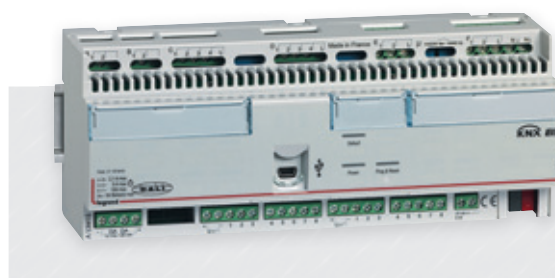
Multi-application modular controllers

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.



16 INPUTS
16 OUTPUTS
12 MODULES
(Available with 8 inputs,
10 outputs, 8 modules)

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).



CENTRALISED INSTALLATION

This consists of a traditional installation using modular products installed in the electrical panel.

Note: all controllers can be controlled for each output by a detector and/or a BUS/KNX control unit.

Controllers

Modular controllers for dimming

- Flexibility in use
DALI master interface and power supply for a maximum of 64 connected ballasts, the modular DALI controller can handle them individually or in groups (maximum of 16 groups per gateway). It also allows DALI to be used (assignment of DALI ballasts to different groups and modification of the configuration) in two different ways: via the device using the integrated screen and programming touch keys, or via an integrated Web server.
- Control of all sources, universal dimming, full DALI dimming, multiple circuits.



FOR THE DALI PROTOCOL



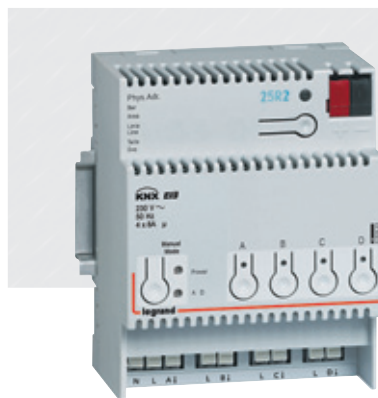
FOR ALL LV AND ELV LOADS

Controller Cat. No. 0 026 59 varies the level of two outputs of any LV or ELV loads.

Modular ON/OFF controllers

Modular controller for roller shutters

easy maintenance



- 8 A FOR LIGHTING
- 16 A FOR LIGHTING, SOCKET OUTLETS AND ELECTRICAL EQUIPMENT



4 OUTPUTS

KNX INFRASTRUCTURE PRODUCTS

Power supply

- 320 mA and 640 mA power supplies provide power for one BUS/KNX line. There is a built-in filter to prevent the short-circuit of messages from the BUS.
- The line coupler provides galvanic insulation between lines. This is necessary to extend the system over 64 participants.

Connection

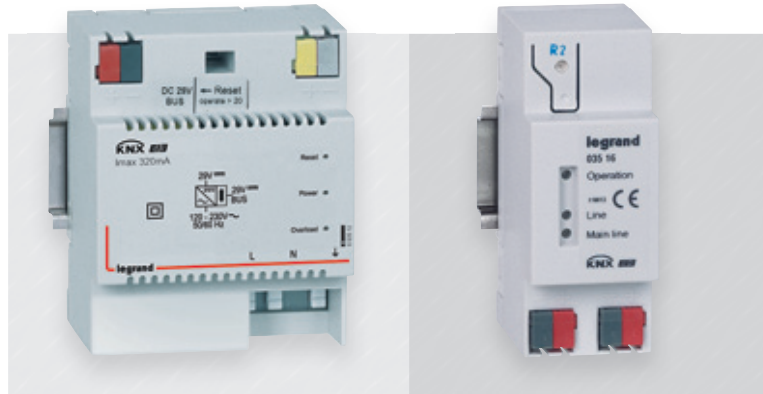
- BUS/KNX cables are available in a single pair version (red/black) or 2 pairs (red/black, yellow/white).
- The black/red BUS/KNX connector is used to extend, split the cable or simply connect the products.

Interface

- BUS/KNX interfaces - voltage free contact, available in a modular version or for flush-mounting, allow voltage free products (switches, push buttons, alarms, etc.) to be connected to BUS/KNX.



VOLT-FREE CONTACT BUS/KNX INTERFACE



320 mA POWER SUPPLY

LINE COUPLER

Communication & Control

Legrand BUS/KNX modules can send/receive commands to different controllers in the system.

- A BUS/KNX - IP gateway allows operation from off site; it has 2 functions:
 - IP interface for making the links between the BUS/KNX infrastructure and the IP network remotely configure the installation with ETS
 - a Web communication interface for a simple supervision via a dedicated Web page.
- The scenario module can control up to eight scenarios and 8 program events.
- The IP/KNX router is a KNX network coupler enabling interconnection among different KNX networks via the IP infrastructure.
- The BUS/KNX - USB interface allows a PC to be connected to the BUS/KNX via the USB port to program or make diagnostic on the system.



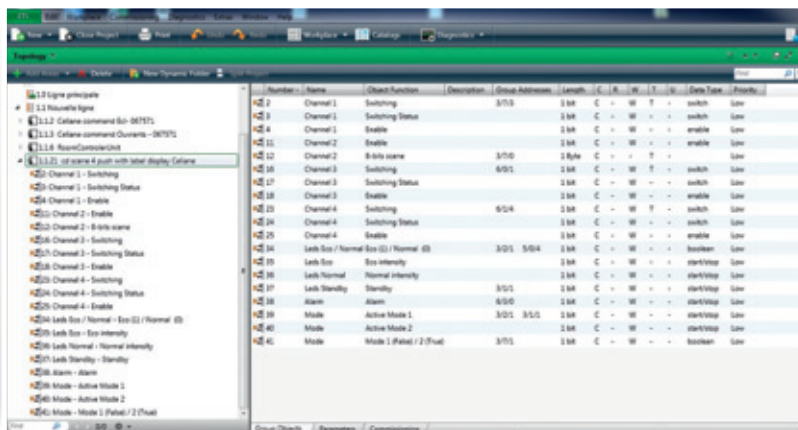
IP COMMUNICATION MODULE

FLEXIBLE, RELIABLE AND CONSISTENT CONFIGURATION



ETS4 SOLUTION

A standardised non-proprietary programming tool available in 15 languages, ETS4 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 ETS4 software from the KNX association.
2. Download the Legrand database from www.legrandoc.com.
3. Import all the products into ETS4.

LEGRAND SOLUTION

Configuration

As a complement to the ETS4 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.



THE MOBILE CONFIGURATOR:
AN ASSET FOR COMMISSIONING
AND MAINTENANCE

SUPERVISION SOFTWARE

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.



VIEWING AND CONTROLLING LIGHTING:
OVERVIEW AND DETAILED VIEW BY AREA



CONSUMPTION DISPLAY WITH
COMPARISON



LIGHTING, SHUTTERS, SOCKET OUTLETS

- Lighting status: overview and view by area
- Presence of persons
- Light level
- Status of shutters and socket outlets
- Control from the lighting, shutter and socket outlets supervision station, area by area
- Programming according to a day/month/year calendar



MEASUREMENT

- For each zone and circuit, and by usage, display:
- of consumption per day, month, year
 - of the comparator with previous periods
 - of the detail of electrical values (energy, power, voltage, current, etc.)

VIEW AND CONTROL

RECEIVE ALERTS

- System fault display
Example: loss of communication
- Change of status of lighting, of a shutter, etc.

- Over-consumption for the whole building

To meet any need of personalisation (screens, variables, equipment, etc.) the Legrand supervision software can be customised in order to create a tailor-made solution. Open to KNX, Modbus, DALI and also Bacnet protocols, it requires an integrator for its set-up.

FOR ACTIVE BUILDING MANAGEMENT



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

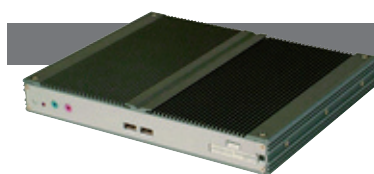
Temperature adjustment, ventilation, etc. Display of diagrams for monitoring



ACCESS CONTROL

Monitoring of building activity

INTERACT



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

Application examples:

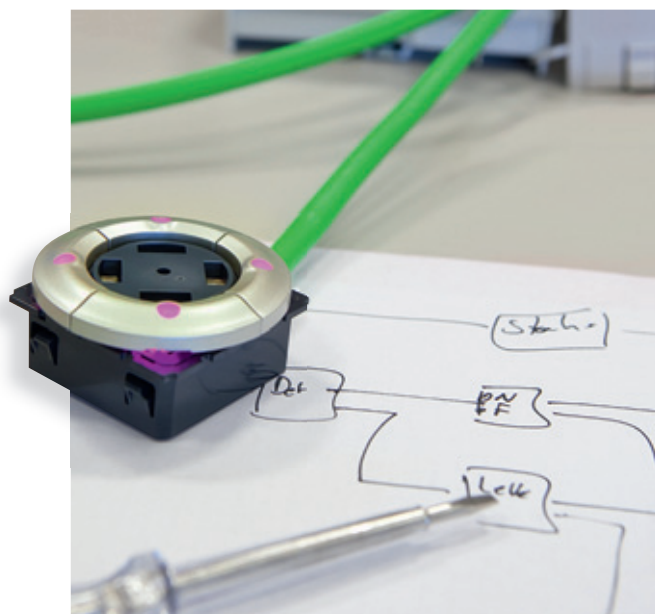
- automatic change to the right temperature depending on whether or not people are present
- supply to power sockets as soon as someone enters an office suite

LEGRAND WILL ASSIST YOU

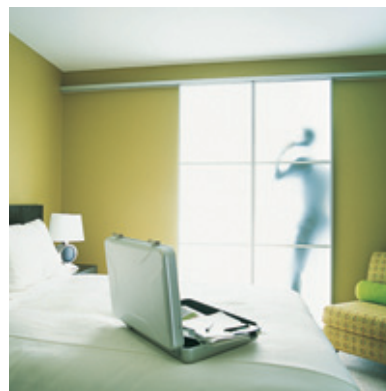
TRAINING

Legrand offers installers, operators and design offices dedicated training, allowing them to increase their overall building management expertise.

→ FIND OUT ABOUT OUR
ONLINE TRAINING OFFER
AT WWW.LEGRAND.COM



APPLICATION EXAMPLES



Dedicated
“**hotel**”
solution

22 **Guest room**



Dedicated
“**commercial
sector
buildings**”
solutions

24 **Open plan area**

26 **Meeting room**

28 **Reception area**

30 **Classroom**



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.



Legrand supervision software



KNX/IP gateway

Cat. No. Qty

0 035 43 1

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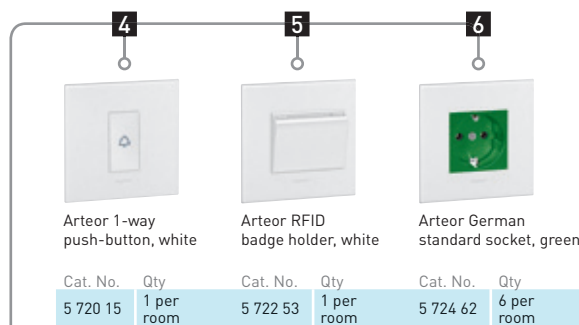


KNX 640 mA power supply

Cat. No. Qty

0 035 04 1 per KNX line

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TRADITIONAL CABLING

BUS/KNX



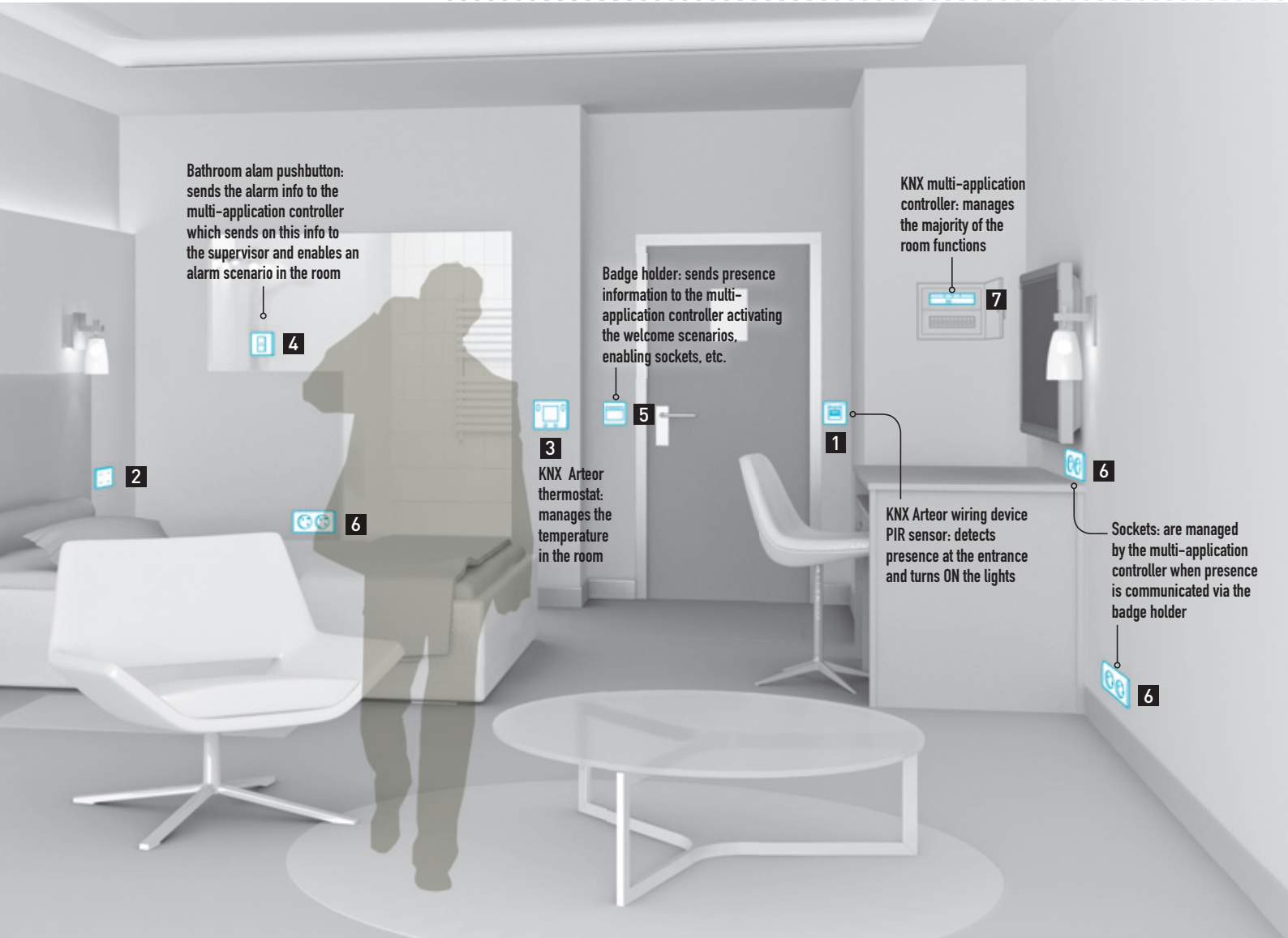
KNX Multi-application controller

Cat. No. Qty

0 484 22 1 per room

> page 43

Common solution for several areas



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 multi-application controller activating the welcome scenarios, enabling sockets, etc.



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



3
KNX Arteor thermostat: manages the temperature in the room



1
KNX Arteor wiring device PIR sensor: detects presence at the entrance and turns ON the lights



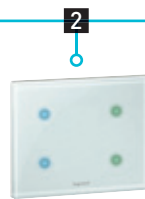
6
Sockets: are managed by the multi-application controller when presence is communicated via the badge holder



1
KNX Arteor PIR wiring device sensor

Cat. No. Qty
5 740 37 1 per room

> page 42



2
KNX Arteor 4-button glass plate, white

Cat. No. Qty
5 735 04 2 per room

> page 32



3
KNX Arteor Thermostat, white glass

Cat. No. Qty
0 490 29 1 per room

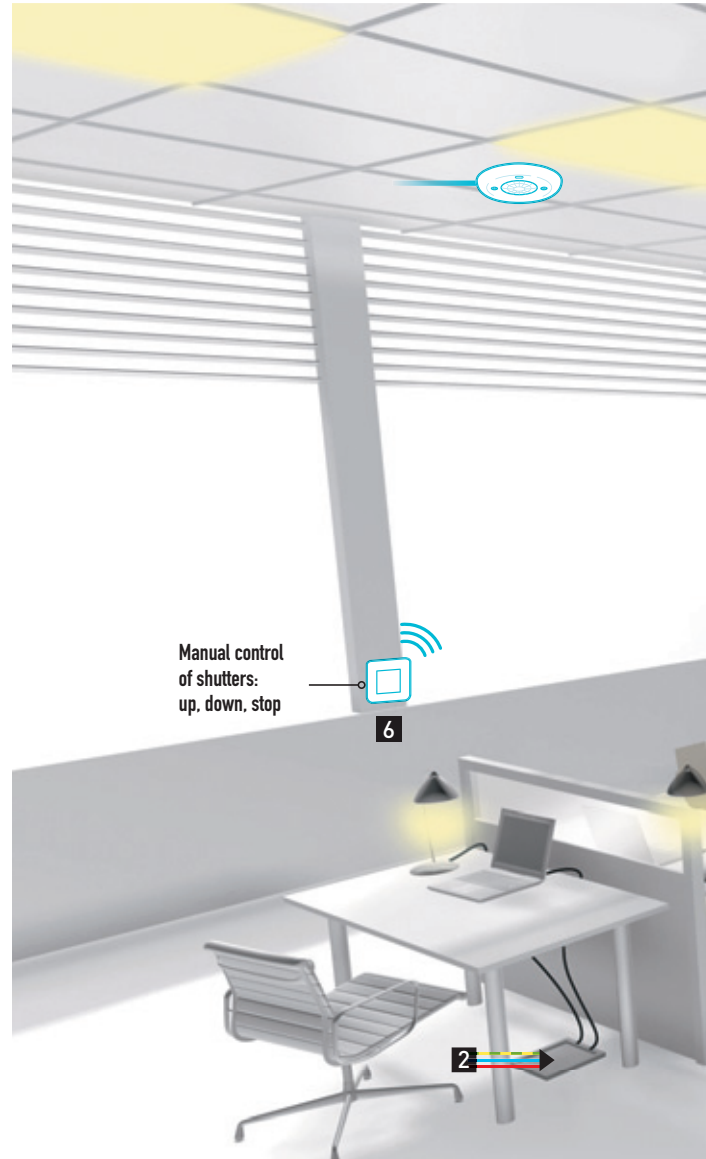
> page 35

Open space

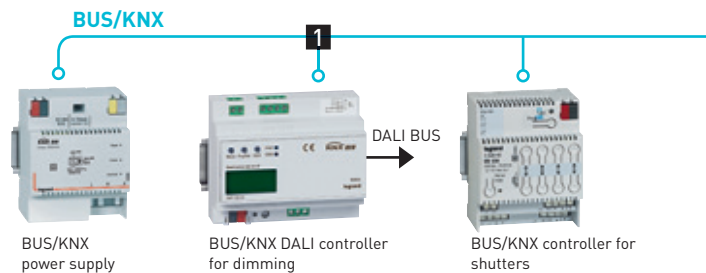
- Presence detection
- Movement detection
- Light level measurement
- Dimming

BUS/KNX SOLUTIONS PROVIDING AREAS WITH FLEXIBILITY

In an office suite, you need to be able to refurbish and re-arrange spaces without touching the wiring and without moving equipment. All you have to do is link detectors and control units to the luminaires, without restriction, with simple programming using the ETS software.



Manual control of shutters:
up, down, stop



BUS/KNX power supply

BUS/KNX DALI controller for dimming

BUS/KNX controller for shutters

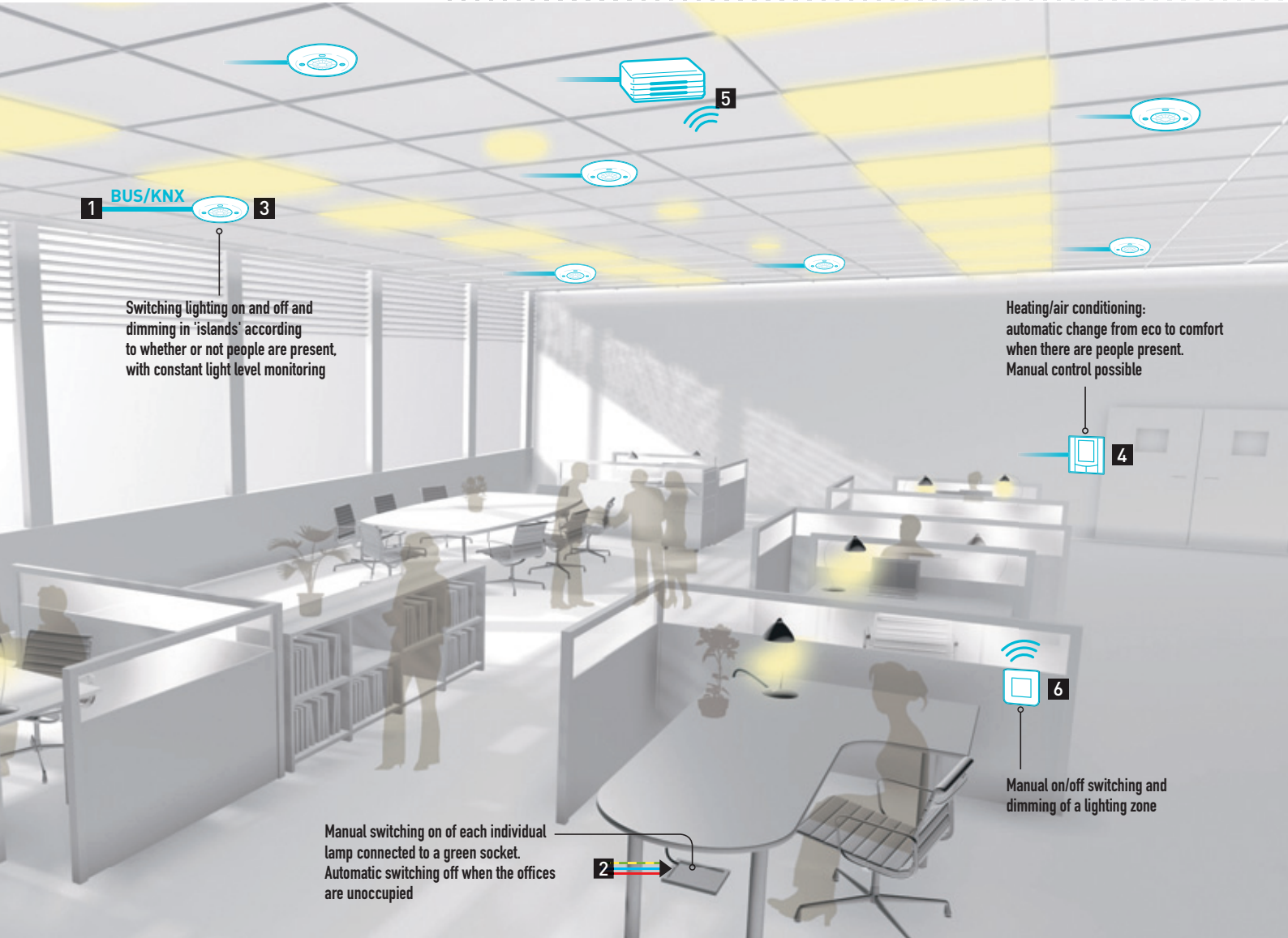
Cat. No.	Qty	Cat. No.	Qty	Cat. No.	Qty
0 035 12	1 for KNX line	0 026 35	1 for 64 ballasts max	0 026 40	1 for 4 shutters

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> page 43

> page 43

■ Common solution for several areas



ON/OFF lighting controller with 4 outputs for lamps connected to green sockets

Cat. No.	Qty
0 026 64	1 for 4 x 16 A sockets max

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ELECTRICAL PANEL

OFFICE SUITE



360° KNX infrared+ultrasound lighting management sensor Range 8 m dia.

Cat. No.	Qty
0 489 18	1 every 6 m

> page 42



Room thermostat

Cat. No.	Qty
0 490 31	1 for the office suite

> page 35



Enocan/KNX interface

Cat. No.	Qty
0 488 67	1 for 16 control units

> page 35



Radio control unit without batteries with single push-button

Cat. No.	Qty
0 784 41	1 per workstation

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Meeting room



- Presence detection
- Light level measurement
- Dimming
- Scenario control
- Manual switch-on
- Management of shutters, screens, HVAC

In a meeting room, you need to be able to control the lighting but also the shutters, screen, ventilation, etc. individually or via programmed scenarios.



BUS/KNX - IP gateway

Cat. No. Qty

0 035 43	1
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> page 44



BUS/KNX power supply

Cat. No. Qty

0 035 12	1 per KNX line
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> page 44

BUS/KNX

1



BUS/KNX universal ON/OFF controller

Cat. No.	Qty
0 026 61	1 for 4 circuits

> page 43

2



BUS/KNX universal dimming controller

Cat. No.	Qty
0 026 59	1 for 2 circuits

> page 43

3



BUS/KNX controller for shutters

Cat. No.	Qty
0 026 40	1 for 4 circuits

> page 43

Common solution for several areas



BUS/KNX

1 2 3 →

Power supply to light fittings, HVAC, shutters, screen, video projector: equipment in the electrical panel



On pressing the control unit at the entrance to the room, the lighting is automatically switched on/off or dimmed depending on whether or not there are people present and on the level of daylight.



During the meeting, priority control of scenarios. Examples:
 • start of projection
 • end of projection
 • full lighting etc.
 At the end of the meeting, automatic switch-off of lighting and HVAC



As soon as someone enters the room, manual switching on/off and dimming of ceiling and panel lights

CONTROLLED CIRCUITS

One ON/OFF lighting circuit for panel/screen
 LEDs or halogen

2 dimming circuits:
 one panel side,
 one room side
 Dimmable LEDs

2 shutter circuits:
 up/down/stop
 1 screen circuit: up/down
 1 HVAC circuit: comfort/eco

ELECTRICAL PANEL

OFFICE SUITE



BUS/KNX lighting management sensor
 360° infrared + ultrasound
 Range 8 m

Cat. No.	Qty
0 489 18	1 every 6 m

> page 42



Touchscreen control

Cat. No.	Qty
0 488 84	1 per room

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Control for 2 ON/OFF and dimming lighting circuits

Cat. No.	Qty
0 675 71	1 per door

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Reception areas

- Presence detection
- Movement detection
- Light level measurement
- Dimming

In a reception area, you need lighting to come on automatically when there are people present and for it to adjust according to the natural light level.
 In corridors you want lighting to come on only when people are passing by and only if the natural daylight is insufficient.



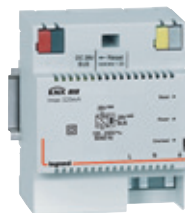
Legrand supervision software



BUS/KNX - IP gateway

Cat. No.	Qty
0 035 43	1

> page 44



BUS/KNX power supply

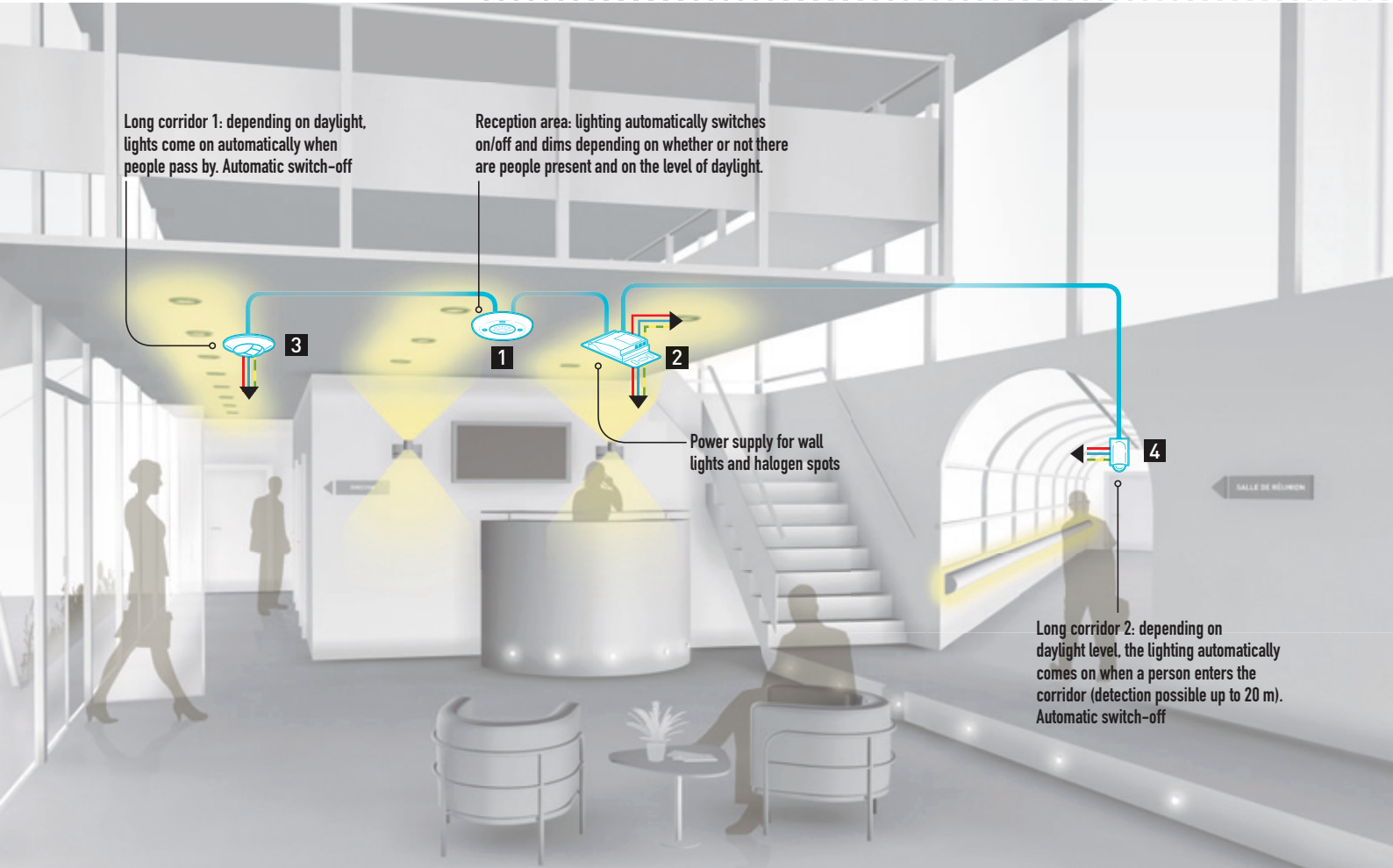
Cat. No.	Qty
0 035 12	1 per KNX line

> page 44



BUS/KNX

■ Common solution for several areas



Long corridor 1: depending on daylight, lights come on automatically when people pass by. Automatic switch-off

Reception area: lighting automatically switches on/off and dims depending on whether or not there are people present and on the level of daylight.

Power supply for wall lights and halogen spots

Long corridor 2: depending on daylight level, the lighting automatically comes on when a person enters the corridor (detection possible up to 20 m). Automatic switch-off

CONTROLLED CIRCUITS

Long corridor 1
Flush-mounted LED spots

Reception area
Wall lights and halogen spots

Long corridor 2
Wall lights



BUS/KNX lighting management sensor 360° infrared + ultrasound Range 8 m

Cat. No.	Qty
0 489 18	1 every 6 m

> page 42



BUS/KNX controller in suspended ceiling for dimming halogen/ELV

Cat. No.	Qty
0 488 61	1 for 2 circuits

> page 43



BUS/KNX lighting management sensor 2 x 180° for long corridors Range 2 x 12 m

Cat. No.	Qty
0 489 19	1 every 20 m

> page 42



BUS/KNX lighting management sensor 180° infrared + ultrasound Range 8 m

Cat. No.	Qty
0 489 20	1 every 6 m

> page 42



ON/OFF or dimming 1-10V BUS/KNX controller in suspended ceiling Linked to lighting management sensors Cat. Nos. 0 489 19/20

Cat. No.	Qty
0 488 62	1 for 4 circuits

> page 43

Class room

- Presence detection
- Light level measurement
- Dimming

In a classroom, you need to pay attention to students' comfort by adjusting the brightness of lighting according to whether it is on the window or the corridor side. The teacher controls the panel lighting. All lighting switches off when the room is unoccupied.



Legrand supervision software



BUS/KNX - IP gateway

Cat. No.	Qty
0 035 43	1

> page 44



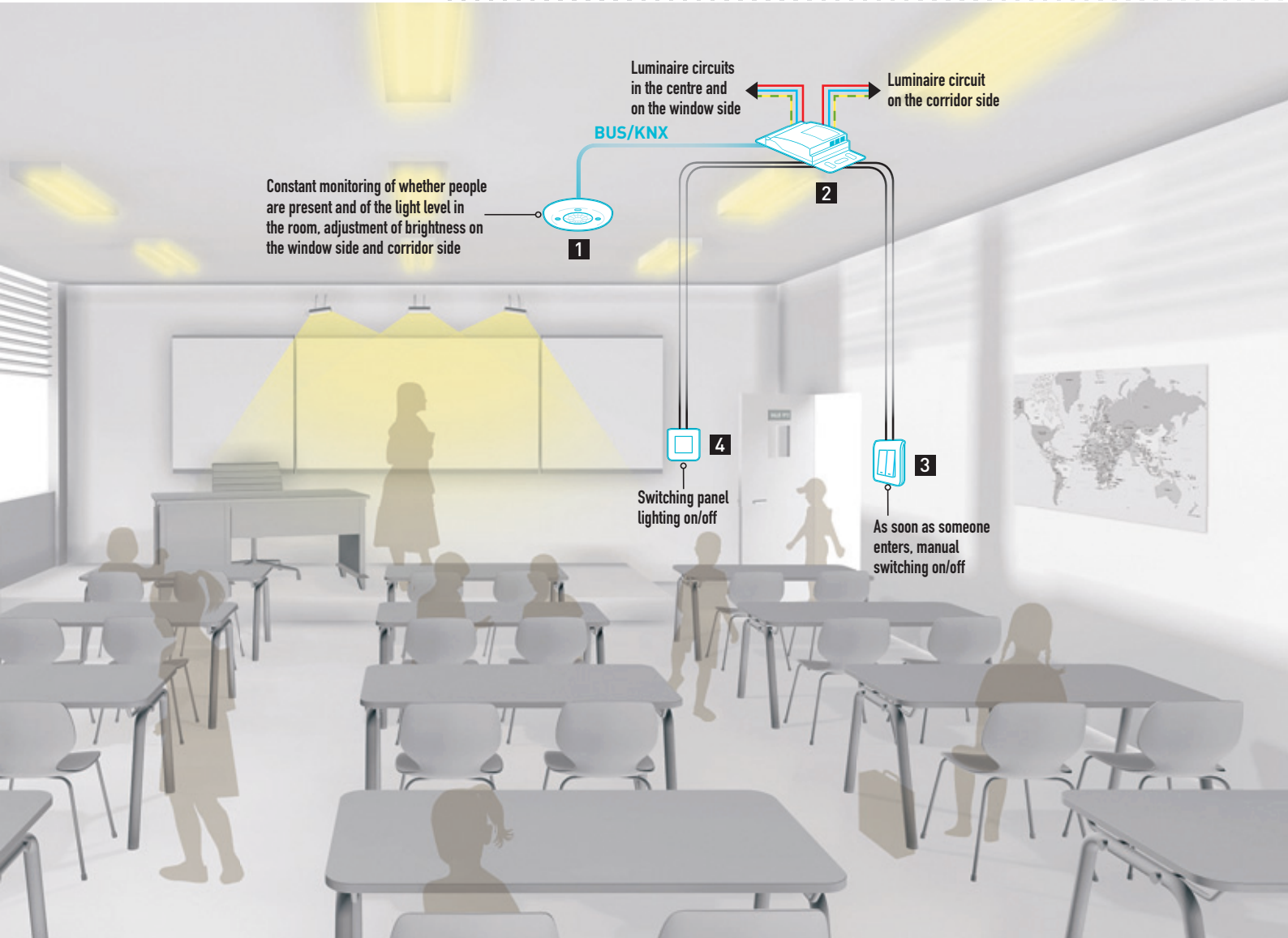
BUS/KNX power supply

Cat. No.	Qty
0 035 12	1 for KNX line

> page 44

BUS/KNX

■ Common solution for several areas



BUS/KNX lighting management sensor 360° infrared + ultrasound Range 8 m

Cat. No.	Qty
0 489 18	1 every 6 m

> page 42



BUS/KNX DALI controller in suspended ceiling for dimming

Cat. No.	Qty
0 488 64	1 for 4 circuits

> page 43



Control for 2 on/off and dimming lighting circuits

Cat. No.	Qty
0 784 96	1 per door

> page 32



Control for panel lighting

Cat. No.	Qty
0 784 89	1 per panel

> page 32

Mosaic™, Céliane™, Arteor™

BUS/KNX manual control units



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

Pack	Cat. No.	Mosaic wired control units
1	0 784 89	Used to control lighting (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. For use in combination with Mosaic plates and Batibox support frames 1 button - 1 actuation point ○ White
1	0 784 95	1 button - 2 actuation points ○ White
1	0 784 94	2 buttons - 2 actuation points ○ White
1	0 784 96	2 buttons - 4 actuation points ○ White
1	0 784 91	4 buttons - 4 actuation points Supplied with label holder for button identification ○ White

Pack	Cat. No.	Céliane wired control units
1	0 675 71	Used to control lighting (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 4 channels control unit without label display For use with cover plates, ring cover, Céliane plate, and Batibox support frame
1	0 675 70	4 buttons - 4 actuation points Fitted with white or titanium key cover Supplied with label holder for button identification For use with Céliane plate and Batibox support frame ○ White
1	0 675 79	● Titanium

Pack	Cat. No.	Céliane wired control units (continued)
1	0 675 72	4 buttons touch control units Supplied complete with white or black touch plate ○ Kaolin glass ● Graphite glass
1	0 675 74	
1	0 675 71	Arteor wired control units 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 4 channels control unit without label display 4 actuation points To be equipped with key covers for control mechanism
1	5 742 03	Square version 4 actuation points - With label holder ○ White
1	5 744 04	● Magnesium
1	5 735 02	Round version 4 actuation points - With label holder ○ White
1	5 735 03	● Magnesium
1	5 735 04	4-buttons touch control units Supplied complete with white or black touch plates To be fitted with Batibox support frames ○ White - for BS flush-mounting boxes
1	5 735 05	● Black - for BS flush-mounting boxes
1	5 739 12	6-buttons touch control units Supplied complete with white or black touch plates ○ White
1	5 739 13	● Black

Céliane™

BUS/KNX manual control key covers



Pack	Cat. No.		Single key covers
			For mechanisms Cat. Nos. 0 675 71
	White	Titanium	
5	0 681 50	0 684 50	Lighting and sound distribution
5	0 681 52	0 684 52	Left-hand mounting Right-hand mounting
			Lighting
5	0 681 48	0 684 48	Left-hand mounting
5	0 681 49	0 684 49	Right-hand mounting
			Dimming
5	0 681 77	0 684 77	Left-hand mounting
5	0 681 78	0 684 78	Right-hand mounting
			GEN/ON/OFF
5	0 681 55	0 684 55	Left-hand mounting
5	0 681 56	0 684 56	Right-hand mounting
			ON/OFF
5	0 682 80	0 685 80	Left-hand mounting
10	0 682 81	0 685 81	Right-hand mounting
			For roller shutters
5	0 682 69	0 685 69	Left or right-hand mounting
			Unmarked
10	0 682 03	0 685 03	Left or right-hand mounting
			STOP
1	0 682 04	0 685 04	Left-hand mounting only

Pack	Cat. No.		Double key covers
			For mechanisms Cat. Nos. 0 675 71
	White	Titanium	
5	0 681 42	0 684 42	Lighting
5	0 681 44	0 684 44	Lighting
5	0 681 76	0 684 76	Dimming
5	0 681 80	0 684 80	GEN
5	0 681 58	0 684 58	GEN/ON/OFF
5	0 681 88	0 684 88	ON/OFF
5	0 682 59	0 685 59	For roller shutters
10	0 682 02	0 685 02	Unmarked
			Ring covers
10	0 680 00	0 683 00	To be installed in addition to single or double key covers



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

Thermostats

BUS/KNX

KNX certified



0 490 31



0 490 29

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

Pack	Cat. No.	KNX thermostats
1	0 490 31	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 <ul style="list-style-type: none"> <input type="radio"/> White <input type="radio"/> White glass <input checked="" type="radio"/> Black glass
1	0 490 29	
1	0 490 30	

Radio extension

BUS/KNX



0 784 41



0 784 42

Pack	Cat. No.	Enocean/KNX wireless extension
1	0 784 41	Used to control lighting (ON/OFF, dimming) and shutters (up, down, stop) For use with Enocean/KNX interface Cat. No. 0 488 67 Supplied complete with plate and support frame Mosaic 1 button - 2 actuation points <input type="radio"/> White
1	0 784 42	2 buttons - 4 actuation points <input type="radio"/> White
1	5 739 31	Arteor 1 button - 2 actuation points <input type="radio"/> White
1	5 739 59	2 buttons - 4 actuation points <input type="radio"/> White
1	0 488 67	Enocean/KNX interface Interface providing communication between batteryless radio control units Cat. Nos. 0 784 41/42, 5 739 31/59 (up to 16 control units) and BUS/KNX controllers 20 m range around the interface For suspended ceiling installation

Axolute and Livinglight

BUS/KNX manual control units



LN4651KNX



NT4680KNX



H4651KNX



HD4680KNX



HD4657M3KNX



HS4657M3KNX



































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</p> <p>To be fitted with Livinglight cover plate, plate and support frame</p>
1	N4680KNX	<p>4 channels control unit with label display</p> <p>Supplied with label holder for button identification</p> <p>To be fitted with Livinglight plate and support frame</p> <p>○ White ● Tech ● Anthracite</p>
1	NT4680KNX	
1	L4680KNX	

Pack	Cat. No.	Axolute wired control units
1	H4651KNX	<p>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</p> <p>4 channels control unit without label display</p> <p>To be fitted with Axolute cover plate, plate and support frame</p>
1	HD4680KNX	<p>4 channels control unit with label display</p> <p>Supplied with label holder for button identification</p> <p>To be fitted with Axolute plate and support frame</p> <p>○ White ● Tech ● Anthracite</p>
1	HC4680KNX	
1	HS4680KNX	
1	HD4657M3KNX	<p>6-buttons touch control unit</p> <p>Supplied with fitted touch plate</p> <p>Requires Axolute support frame</p> <p>○ Transparent glass ● White ● Black</p>
1	HC4657M3KNX	
1	HS4657M3KNX	

Livinglight









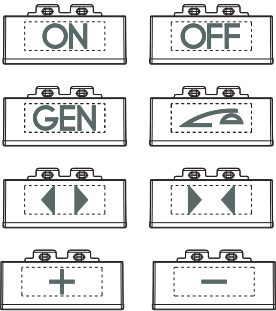



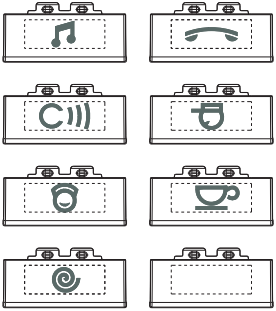







BUS/KNX manual control key covers

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	—

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	—



















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	

























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		HD4915MR	—		
			HC4915AA	HC4915/2AA			HC4915MR	—		
			HS4915AA	HS4915/2AA			HS4915MR	—		
	 HD4915AB	ON		HD4915AB	HD4915M2AB	Make up room				
				HC4915AB	HC4915/2AB					
				HS4915AB	HS4915/2AB					
	 HD4915AC	GEN		HD4915AC	HD4915M2AC					
				HC4915AC	HC4915/2AC					
				HS4915AC	HS4915/2AC					
	 HD4915M2AA	Dimmer		HD4915AD	HD4915M2AD					
				HC4915AD	HC4915/2AD					
				HS4915AD	HS4915/2AD					
 HD4915M2AA	Light		HD4915BA	HD4915M2BA						
			HC4915BA	HC4915/2BA						
			HS4915BA	HS4915/2BA						
 HC4915/2AA	Stop		HD4915AE	—						
			HC4915AE	—						
			HS4915AE	—						
 HC4915/2AA	Bed light		HD4915BL	HD4915M2BL						
			HC4915BL	HC4915M2BL						
			HS4915BL	HS4915M2BL						
 HS4915/2AA	Bell		HD4915BB	HD4915M2BB						
			HC4915BB	HC4915/2BB						
			HS4915BB	HS4915/2BB						
 HS4915/2AA	Fan		HD4915BC	HD4915M2BC						
			HC4915BC	HC4915/2BC						
			HS4915BC	HS4915/2BC						
 HS4915/2AA	Key		HD4915BD	—						
			HC4915BC	—						
			HS4915BC	—						
 HC4915AC HC4915/2AC	Music		HD4915BE	HD4915M2BE						
			HC4915BE	HC4915/2BE						
			HS4915BE	HS4915/2BE						
 HS4915/2AA	Nurse		HD4915BF	HD4915M2BF						
			HC4915BF	HC4915/2BF						
			HS4915BF	HS4915/2BF						
 HS4915BA HS4915/2BA	Do not disturb		HD4915DD	HD4915M2DD						
			HC4915DD	HC4915M2DD						
			HS4915DD	HS4915M2DD						
KEY COVERS WITH SILK-SCREEN PRINTING - 1 AND 2 FUNCTIONS					KEY COVERS WITH SILK-SCREEN PRINTING WITH SYMBOLS - 2 FUNCTIONS					
 HD4911AF	ON - OFF - GEN		HD4911AF	HD4911M2AF	 HD4911AF	ON - OFF		HD4911AG	HD4911M2AG	
			HC4911AF	HC4911/2AF				HC4911AG	HC4911/2AG	
			HS4911AF	HS4911/2AF				HS4911AG	HS4911/2AG	
	 HD4911M2AF	UP - DOWN		HD4911AH	HD4911M2AH	 HD4911M2AF	ON - OFF ADJUSTMENT		HD4911AI	HD4911M2AI
				HC4911AH	HC4911/2AH				HC4911AI	HC4911/2AI
				HS4911AH	HS4911/2AH				HS4911AI	HS4911/2AI
	 HC4911AF	Light		HD4911BA	HD4911M2BA	 HC4911AG	Light		HD4911BA	HD4911M2BA
				HC4911BA	HC4911/2BA				HC4911BA	HC4911/2BA
				HS4911BA	HS4911/2BA				HS4911BA	HS4911/2BA
	 HC4911AG	Fan		HD4911BC	HD4911M2BC	 HC4911AI	Fan		HD4911BC	HD4911M2BC
				HC4911BC	HC4911/2BC				HC4911BC	HC4911/2BC
				HS4911BC	HS4911/2BC				HS4911BC	HS4911/2BC
 HC4911AI	Treble clef		HD4911BE	—	 HC4911BC	+ up and - down		HD4911AD	—	
			HC4911BE	—				HC4911AD	—	
			HS4911BE	—				HS4911AD	—	

Sensors

BUS/KNX

KNX certified



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	Pack	Cat. No.	Special motion sensor for small premises and bathrooms (continued)
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			Axolute 180° passive infrared detection, range 8 m IP 41 For use with: - an Axolute plate - an Axolute support frame 1 HD4658KNX White 1 HS4658KNX Anthracite 1 HC4658KNX Tech
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			Livinglight 180° passive infrared detection, range 8 m IP 41 For use with: - a Livinglight plate - a Livinglight support frame 1 N4658KNX White 1 L4658KNX Anthracite 1 NT4658KNX Tech
1	0 784 93	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 Mosaic White 180° passive infrared detection, range 8 m IP 41 For use with Mosaic plate and Batibox support frame 2 modules			Special presence sensors for work areas Suitable for meeting rooms, classrooms, open areas, etc. Dual technology 1 0 489 18
1	0 675 77	Céliane 180° passive infrared detection, range 8 m IP 41 For use with - cover plate Cat. No. 0 682 99 (white) or 0 685 99 (titanium) - ring cover Cat. No. 0 680 00 (white) or 0 683 00 (titanium) - a Céliane plate - a Batibox support frame			1 0 489 20 Wall mounted - surface mounting 180° passive infrared and ultrasound detection, front range 8 m Recommended fixing height: 2.5 m IP 42 Optimum distance between two sensors: 10 m Consumption 0.5 W Can be fixed in a corner with a special accessory Cat. No. 0 489 71
1	5 740 37	Arteor 180° passive infrared detection, range 8 m IP 41 - Céliane Arteor plate - a Batibox support frame			
1	5 740 79	○ White ● Magnesium			

Controllers

false ceiling and modular BUS/KNX



0 488 64



0 026 35



0 484 22

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

Pack	Cat. No.	False ceiling controllers for dimming
1	0 488 64	Each output can be controlled by a sensor and/or BUS/KNX control unit For DALI protocol 4 outputs 32 ballasts maximum per output
1	0 488 66	8 outputs 16 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
1	0 488 61	For LV and ELV halogen lamps, 2 outputs 1000 W maximum per output
Modular controllers for dimming		
1	0 026 35	Each output can be controlled by a sensor and/or BUS/KNX control unit 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	0 026 59	All LV and ELV loads 2 outputs 2 x 400 W/VA maximum per output or 1 x 800 W/VA max. for four or six outputs. 4 17.5 mm DIN modules
1	0 026 60	Controller extension 0 026 59 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 ON/OFF controllers
1	0 026 61	Each output can be controlled by a sensor and/or BUS/KNX control unit 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 64	16 A for lighting, sockets and electrical equipment. 4 x 16 A outputs 4 17.5 mm DIN modules
1	0 026 40	Modular controller for roller shutters 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 multi-application controllers		
1	0 484 18	Power modules equipped with output contacts for controlling: - all types of ON/OFF load (lighting, roller shutters, contactors, motors, etc.) - a DALI dimming output for 64 ballasts max. 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. MARCH 2015 8 inputs - 10 outputs 8 17.5 mm DIN modules
1	0 484 22	16 inputs - 16 outputs 12 17.5 mm DIN modules



0 026 55



0 484 21



0 035 16



0 035 12



0 035 43

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

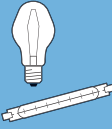
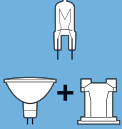


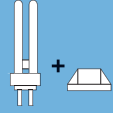

Pack	Cat. No.	BUS/KNX interface - voltage contact
1	0 026 55	<p>Connects voltage contacts (switches, push-buttons, alarms, etc.) to the BUS/KNX</p> <p>Modular 8 inputs 6 17.5 mm modules</p> <p>Flush mounting For installation in a flush-mounting box</p>
1	0 484 20	2 inputs - 2 outputs
1	0 484 21	4 inputs - 4 outputs
1	0 026 50	<p>Scenario module Able to perform up to 8 scenarios and 8 events programs 1 17.5 mm module</p>
1	0 035 16	<p>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</p>

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
		<p>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=</p>
1	0 035 12	320 mA
1	0 035 04	640 mA
1	0 035 43	<p>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</p>
1	0 026 38	<p>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</p>
1	0 488 79	<p>BUS/KNX connector Black and red Supplied in boxes of 50</p>
		<p>BUS/KNX cables Length 500 m 0.8 mm dia. quad Isolation 1000 V</p>
1	0 492 91	1 pair: red/black
1	0 492 92	2 pairs: red/black and yellow/white

Controllers

BUS/KNX load tables

Load table



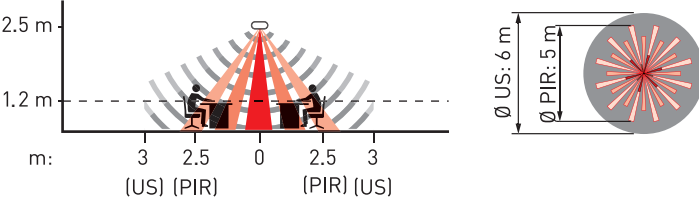


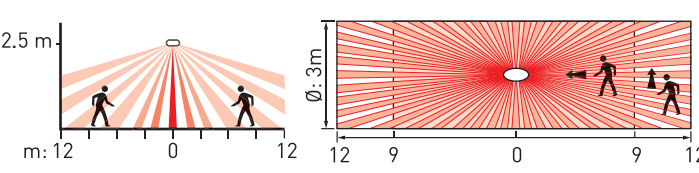
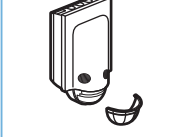

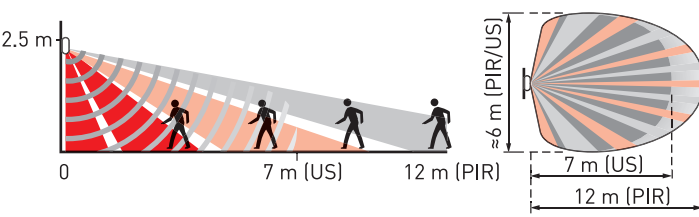
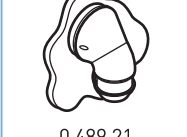

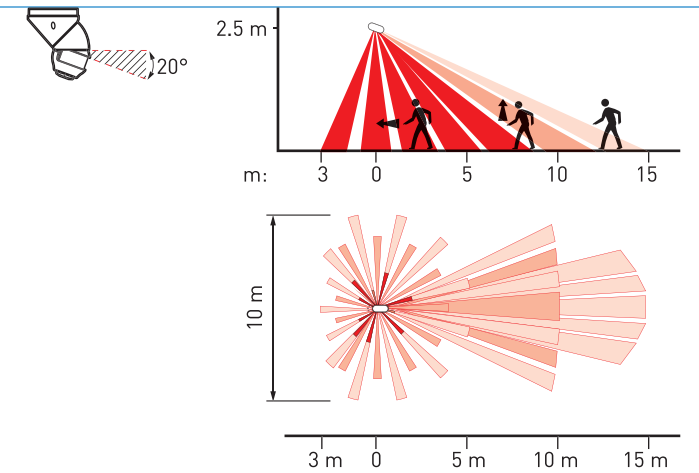


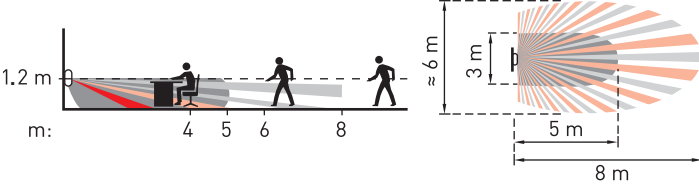
Cat. No.	Outputs	 Halogen lamp	 ELV halogen lamp with ferromagnetic or electronic transformer	 Fluorescent tube	 LED and compact fluorescent lamp	 Fluorescent lamp with 1-10 V ballast	DALI	 Motors
Suspended ceiling controllers								
0 488 64	4	-	-	-	-	-	4 x 32 ballasts	-
0 488 66	8	-	-	-	-	-	8 x 16 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	-	-
0 488 61	2	2000 W	2000 VA	-	-	-	-	-
Modular controllers								
0 026 35	-	-	-	-	-	-	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 40	-	-	-	-	-	-	-	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
0 026 64	4	4 x 3680 W	4 x 2000 VA	4 x 3680 VA	4 x 3680 VA	-	-	4 x 2000 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

*: Compatible with dimmable LED and compact fluorescent lamps

- ON/OFF
- Dimming
- Automation

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)	 <p>2.5 m 1.2 m m: 3 2.5 0 2.5 3 (US) (PIR) (PIR) (US) ∅ US: 6 m ∅ PIR: 5 m</p>	Classroom, meeting room, open plan office
 0 489 19		2 x 12 m	 <p>2.5 m m: 12 0 12 ∅: 3 m 12 9 0 9 12</p>	Long corridor
 0 489 20		7 m (US) 12 m (PIR)	 <p>2.5 m 0 7 m (US) 12 m (PIR) ∅: 6 m (PIR/US) 7 m (US) 12 m (PIR)</p>	Individual office, classroom, meeting room, restrooms etc.
 0 489 21		18 m	 <p>2.5 m m: 3 0 5 10 15 20° 10 m 3 m 0 5 m 10 m 15 m</p>	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	 <p>1.2 m m: 4 5 6 8 ∅: 6 m 3 m 5 m 8 m</p>	Bathroom, stairways



BUS/KNX: overall control of the building

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

2 SOLUTIONS FOR ACTIVE BUILDING MANAGEMENT

> View, control, be alerted

Supervision software for Legrand applications: lighting, emergency lighting, metering, fire alarms, etc.



> Interact

The PLC allows Legrand and other applications to interact with one another. Example: changes automatically to the set temperature if there are people present.



0 490 04

For overall building management

Operates with:

- the metering offer: uses RS 485/IP converter Cat. No. 0 046 88, or communication modules Cat. Nos. 0 146 76/78 linked to measurement control unit Cat. No. 0 146 69
- the BUS/KNX lighting offer, with KNX/IP converter Cat. No. 0 035 43
- the BUS/SCS lighting offer with zone controller Cat. No. 0 026 45
- the emergency lighting offer with addressable unit control interface Cat. No. 0 626 00
- the fire alarm offer: using RS 485/IP converter Cat. No. 0 046 88

Pack	Cat. No.	Legrand Supervision software
		Supervision software which displays data, analyses and manages alarms for small commercial sector projects: <ul style="list-style-type: none"> - displays values measured and the status of connected systems - 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
1	0 035 44	Building manager PLC designed for the automated control of commercial sector buildings requiring interoperability between the different systems connected or requiring Legrand solutions to be integrated in a BMS: <ul style="list-style-type: none"> - Legrand solutions: lighting management, emergency lighting, power metering, fire alarm - other solutions: HVAC, etc. • Provides <ul style="list-style-type: none"> - 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) - HVAC systems included (air conditioning, heating) - 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

Building management

active building management

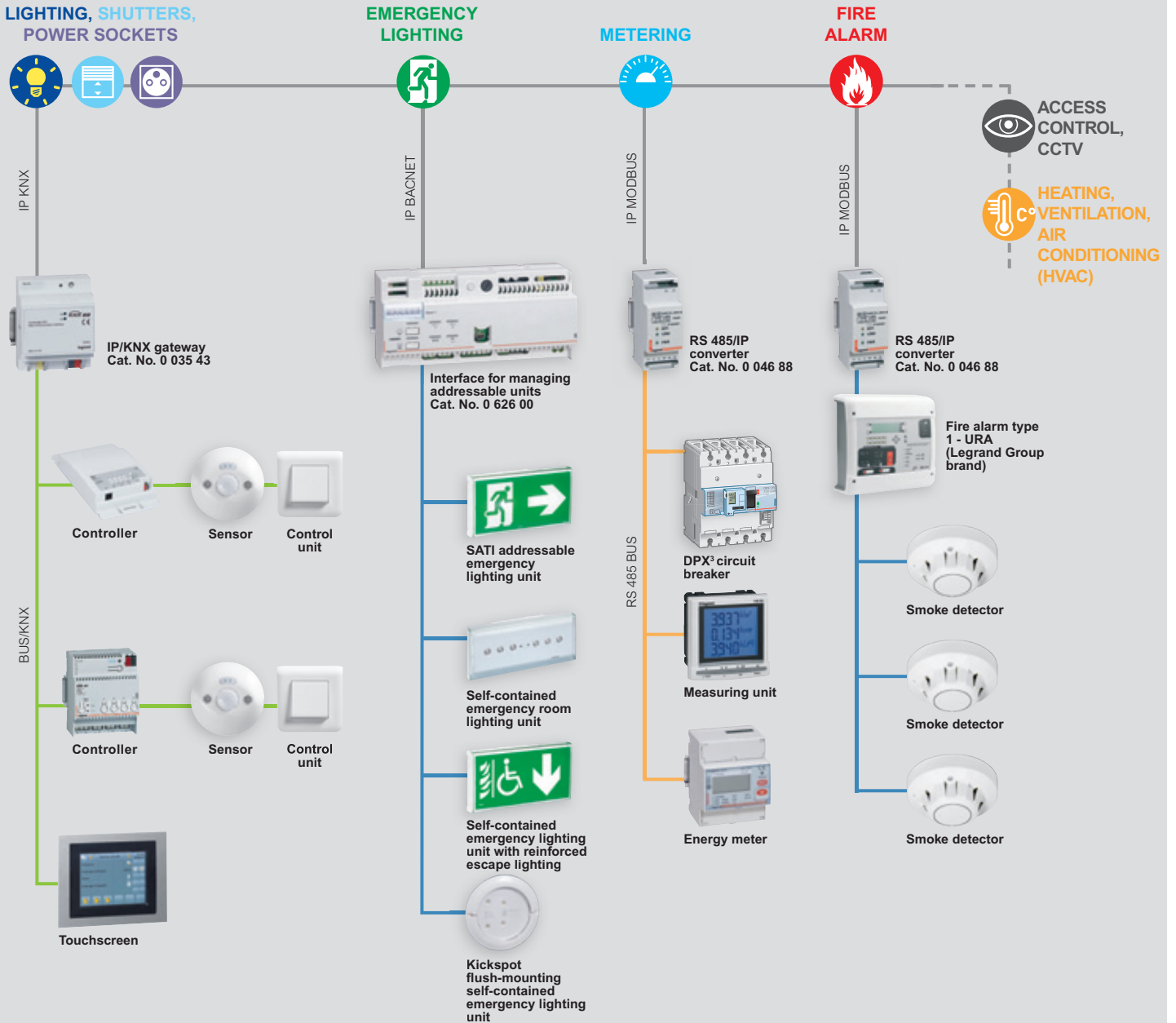
Active building management with Legrand or other systems



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, fire alarm
 - other solutions: HVAC, etc.

Example: Lighting management + emergency lighting + power meter + fire alarm



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			21	-	1	77	-	5	81	-	10	94	-	2	09	-	5
0 026 35	43	1	0 490 00			78	-	5	0 784 00			95	-	2	10	-	5
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55	-	1	03	-	1	0 682 02	33	10	91	-	1	5 744 04	32	1	14	-	5
59	43	1	04	-	1	03	-	10	93	42	1	64	34	5	15	-	5
60	-	1	29	35	1	04	-	1	94	32	1	65	-	5	16	-	5
61	-	1	30	-	1	59	-	5	95	-	1	66	-	5	17	-	5
62	-	1	31	-	1	69	-	5	96	-	1	67	-	5	18	-	5
63	-	1	0 492 00			80	-	5	5 735 00			68	-	5	19	-	5
64	-	1	0 492 91	44	1	81	-	10	5 735 02	32	1	69	-	5	20	-	5
0 035 00			92	-	1	0 683 00			5 735 03	-	1	70	-	5	21	-	5
0 035 04	44	1	0 675 00			0 683 00	33	10	5 735 04	-	1	71	-	5	22	-	5
12	-	1	0 675 70	32	1	0 684 00			5 735 05	32	1	72	-	5	23	-	5
16	-	1	71	-	1	0 684 42	33	5	5 739 00			73	-	5	24	-	5
43	-	1	71	-	1	44	-	5	5 739 12	32	1	74	-	5	25	-	5
44	47	1	72	-	1	48	-	5	13	-	1	75	-	5	26	-	5
47	44	1	74	-	1	49	-	5	31	35	1	76	-	5	27	-	5
0 484 00			77	42	1	50	-	5	49	-	1	77	-	5	28	-	5
0 484 18	43	1	79	32	1	52	-	5	5 740 00			78	-	5	29	-	5
20	44	1	0 680 00			55	-	5	5 740 37	42	1	79	-	5	30	-	5
21	-	1	0 680 00	33	10	56	-	5	79	-	1	80	-	5	31	-	5
22	43	1	0 681 00			58	-	5	5 742 00			81	-	5	32	-	5
0 488 00			0 681 42	33	5	76	-	5	5 742 03	32	1	82	-	5	33	-	5
0 488 61	43	1	44	-	5	77	-	5	5 743 00			83	-	5	34	-	5
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67	35	1	52	-	5	0 685 00			5 745 03	32	1	87	-	5	38	-	5
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0 489 00			56	-	5	03	-	10	5 745 46	34	5	89	-	5	40	-	5
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			59	-	5							95	-	5	46	-	5
			69	-	5										47	-	5
			80	-	5										48	-	5
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HC4657M3KNX	36	1	HD4911AD	41	1	HS4911/2AI	-	1	L4911M2N	-	1	N4915LN	37	1
HC4680KNX	-	1	HD4911AF	-	1	HS4911/2BA	-	1	L4911M2TN	39	1	N4915M2ADN	-	1
HC4911	40	1	HD4911AG	-	1	HS4911/2BC	-	1	L4911N	38	1	N4915M2AN	-	1
HC4911/2	-	1	HD4911AH	-	1	HS4911AD	-	1	L4911TN	39	1	N4915M2BN	-	1
HC4911/2AF	41	1	HD4911AI	-	1	HS4911AF	-	1	L4915AN	37	1	N4915M2DD	-	1
HC4911/2AG	-	1	HD4911BA	-	1	HS4911AG	-	1	L4915BN	-	1	N4915M2DN	-	1
HC4911/2AH	-	1	HD4911BC	-	1	HS4911AH	-	1	L4915DD	-	1	N4915M2FN	-	1
HC4911/2AI	-	1	HD4911BE	-	1	HS4911AI	-	1	L4915DN	-	1	N4915M2LN	-	1
HC4911/2BA	-	1	HD4911M2	40	1	HS4911BA	-	1	L4915FN	-	1	N4915M2TN	39	1
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HC4911BC	-	1	HD4915AB	-	1	HS4915/2BA	-	1	L4915M2TN	39	1	NT4911AHN	-	1
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HC4915/2	-	1	HD4915BA	-	1	HS4915/2BE	-	1	L4915SETBL	39	1	NT4911M2AFN	-	1
HC4915/2AA	41	1	HD4915BB	-	1	HS4915/2BF	-	1	L4915TN	-	1	NT4911M2AGN	-	1
HC4915/2AB	-	1	HD4915BC	-	1	HS4915AA	-	1	LN4651KNX	36	1	NT4911M2AHN	-	1
HC4915/2AC	-	1	HD4915BD	-	1	HS4915AB	-	1	N4680KNX	36	1	NT4911M2AIN	-	1
HC4915/2AD	-	1	HD4915BE	-	1	HS4915AC	-	1	N4911ADN	38	1	NT4911M2TN	-	1
HC4915/2BA	-	1	HD4915BF	-	1	HS4915AD	-	1	N4911AFN	-	1	NT4911N	38	1
HC4915/2BB	-	1	HD4915BL	-	1	HS4915BA	-	1	N4911AGN	-	1	NT4911TN	39	1
HC4915/2BC	-	1	HD4915DD	-	1	HS4915BB	-	1	N4911AHN	-	1	NT4915AN	37	1
HC4915/2BF	-	1	HD4915M2	40	1	HS4915BC	-	1	N4911AIN	-	1	NT4915BN	-	1
HC4915AA	-	1	HD4915M2AA	41	1	HS4915BE	-	1	N4911BFN	-	1	NT4915DD	-	1
HC4915AB	-	1	HD4915M2AB	-	1	HS4915BF	-	1	N4911M2AFN	-	1	NT4915DN	-	1
HC4915AC	-	1	HD4915M2AD	-	1	HS4915BL	-	1	N4911M2AGN	-	1	NT4915FN	-	1
HC4915AD	-	1	HD4915M2BA	-	1	HS4915DD	-	1	N4911M2AHN	-	1	NT4915KIT	39	1
HC4915BA	-	1	HD4915M2BB	-	1	HS4915M2BBL	-	1	N4911M2N	-	1	NT4915M2ADN	37	1
HC4915BB	-	1	HD4915M2BC	-	1	HS4915M2D	-	1	N4911M2TN	39	1	NT4915M2AN	-	1
HC4915BC	-	1	HD4915M2BE	-	1	HS4915MR	-	1	N4911N	38	1	NT4915M2BN	-	1
HC4915BE	-	1	HD4915M2BF	-	1	L4680KNX	36	1	N4911TN	39	1	NT4915M2DD	-	1
HC4915BF	-	1	HD4915M2BL	-	1	L4911ADN	38	1	N4915AN	37	1	NT4915M2DN	-	1
HC4915BL	-	1	HD4915M2DD	-	1	L4911AFN	-	1	N4915BN	-	1	NT4915M2FN	-	1
HC4915DD	-	1	HD4915MR	-	1	L4911AGN	-	1	N4915DD	-	1	NT4915M2N	-	1
HC4915M2BL	-	1	HS4657M3KNX	36	1	L4911AHN	-	1	N4915DN	-	1	NT4915M2TN	39	1
HC4915M2DD	-	1	HS4680KNX	-	1	L4911AIN	-	1	N4915FN	37	1	NT4915MR	37	1
HC4915MR	-	1	HS4911	40	1	L4911BFN	-	1	N4915KIT	39	1	NT4915N	-	1
HD4657M3KNX	36	1	HS4911/2	-	1	L4911M2AFN	-	1	N4915KIT	-	1	NT4915SETBL	39	1
HD4680KNX	-	1	HS4911/2AF	41	1	L4911M2AGN	-	1	N4915KIT	-	1	NT4915TN	-	1
			HS4911/2AG	-	1	L4911M2AHN	-	1						



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Head office
and International Department
87045 Limoges Cedex - France
Tel. + 33 (0) 5 55 06 87 87
Fax + 33 (0) 5 55 06 74 55