BUS/KNX SOLUTIONS

ACTIVE CONTROL OF LIGHTING, SHUTTERS, AND SOCKET OUTLETS

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THE **GLOBAL SPECIALIST**
IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES

legrand®

NEW GENERATION LIGHTING MANAGEMENT

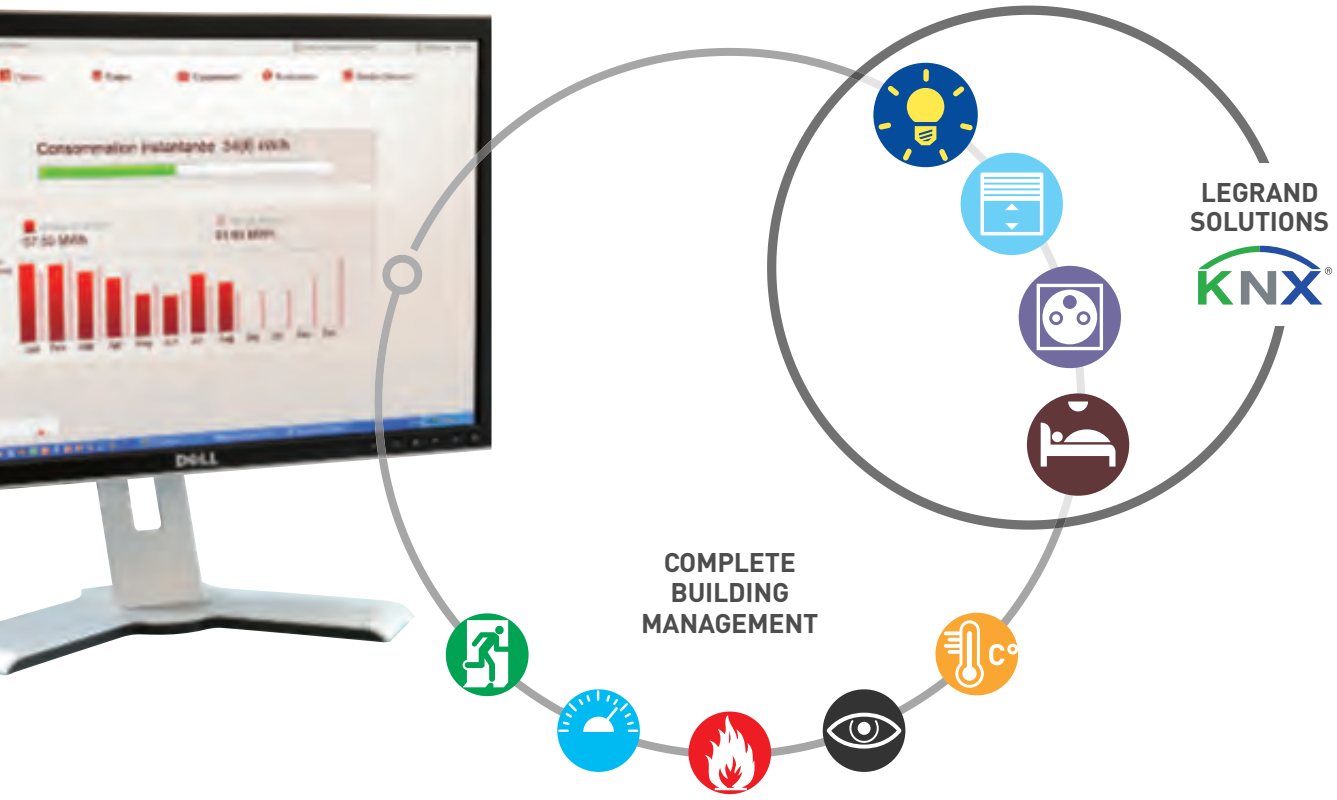
A global specialist in electrical infrastructures in buildings and a major force in new generation buildings, Legrand is developing its lighting control systems towards systems providing complete control of a building: BUS/KNX solutions.

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.

SIMPLE

WITH LABEL HOLDER

TOUCH

Functional diversity

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

"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

MOSAIC

KNX WIRELESS INTERFACE

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

PIR detection + with high density lens
Infrared technology is suitable to detect wide amplitude movements but with its high density lens this sensor is able to detect the thinest movement also and it is adapted for passage but working areas also.

CAT.NO 0 489 22
360° PIR detection
Range 8 m
IP 20
Ceiling mounted

EXCLUSIVE TO LEGRAND

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!

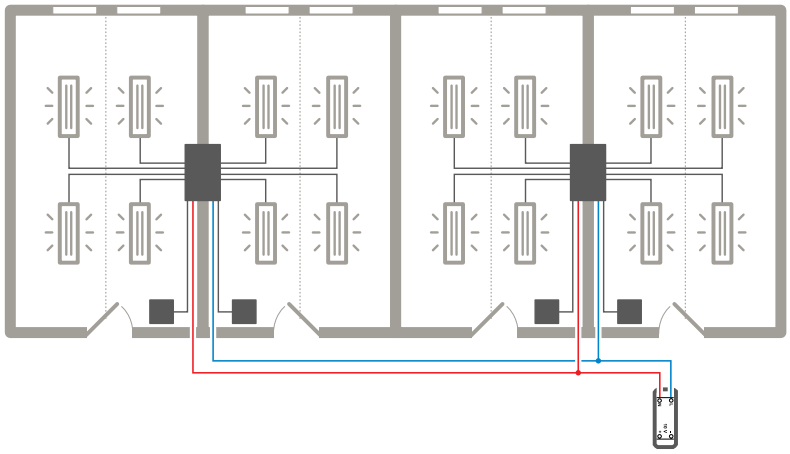
→ SEE PAGE 16

SIMPLIFIED INSTALLATION

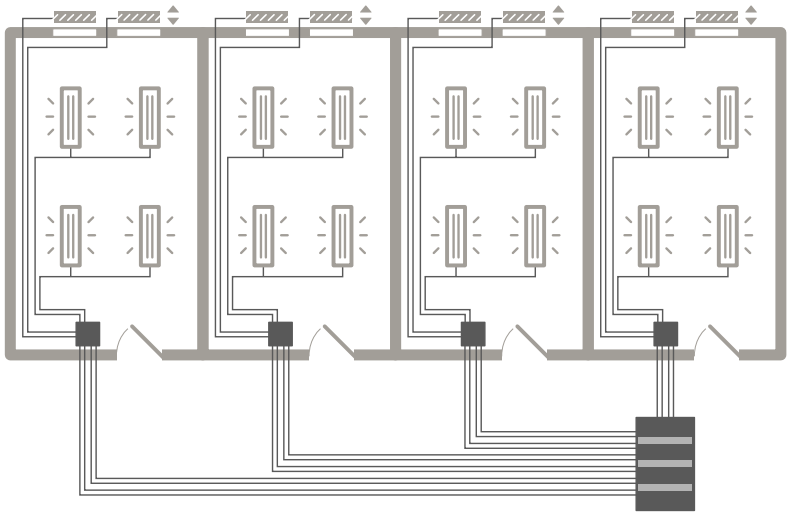
Equipped with different outputs, controllers (also called actuators) receive commands from the control units and act on lighting or shutter loads. Their installation may take one of two from factors.

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,
4 OUTPUTS

FOR 1-10 V BALLASTS,
4 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

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

FOR ALL LV AND ELV LOADS

Modular ON/OFF controllers

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

Modular controller for roller shutters

4 OUTPUTS

“easy maintenance

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 extand the system over 64 participants.

640 mA POWER SUPPLY

LINE COUPLER

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.
- A binary interface is also available allowing the connection of probes, sensors which need to ditinguish between two levels of signal.

VOLT-FREE CONTACT BUS/KNX INTERFACE

Communication & Control

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

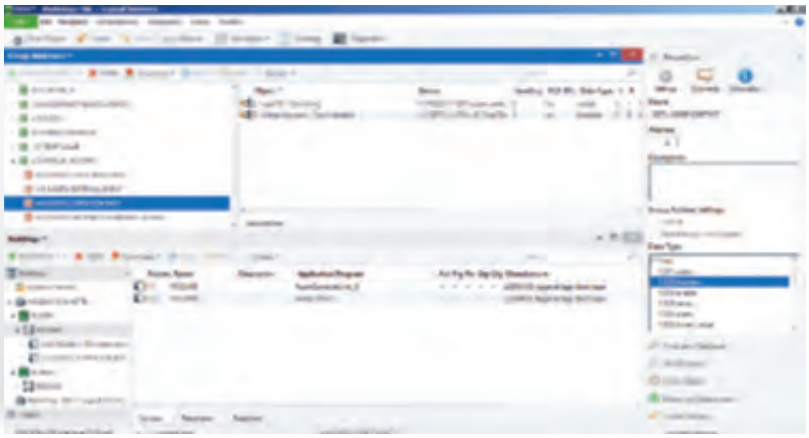
- A BUS/KNX - IP gateway allows operation from off site; it has 2 functions:
  - IP interface for making the links between the BUS/KNX infrastructure and the IP network remotely configure the installation with ETS
  - a Web communication interface for a simple supervision via a dedicated Web page.
- 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

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.

LEGRAND SOLUTION

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.

THE MOBILE CONFIGURATOR:
AN ASSET FOR COMMISSIONING AND MAINTENANCE

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.

SUPERVISION SOFTWARE

VIEWING AND CONTROLLING LIGHTING: OVERVIEW AND DETAILED VIEW BY AREA

CONSUMPTION DISPLAY WITH COMPARISON

VIEWING AND CONTROLLING GUEST ROOM: OVERVIEW AND DETAILED VIEW BY ROOM

	LIGHTING, SHUTTERS, SOCKET OUTLETS	MEASUREMENT	HOTEL GUEST ROOM MANAGEMENT
VIEW AND CONTROL	▪ 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	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.)	▪ Occupancy status: overview and view by room ▪ Ambiant temperature and status of thermoregulation operating mode ▪ Energy consumption level ▪ Control temperature setpoint, thermoregulation operating mode, shutter ▪ Launch scenes as welcome, checkout, ...
BE WARNED	▪ System fault display Example: loss of communication ▪ Change of status of lighting, of a shutter, etc.	▪ Over-consumption for the whole building	▪ Guest requirements: MUR, Do Not Disturb ▪ SOS alarm ▪ "Green sensitive" guest

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, BE WARNED

LIGHTING SHUTTERS
Display on a plan of the location of lighting and shutter 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 with third-party systems (HVAC, access control, ...):

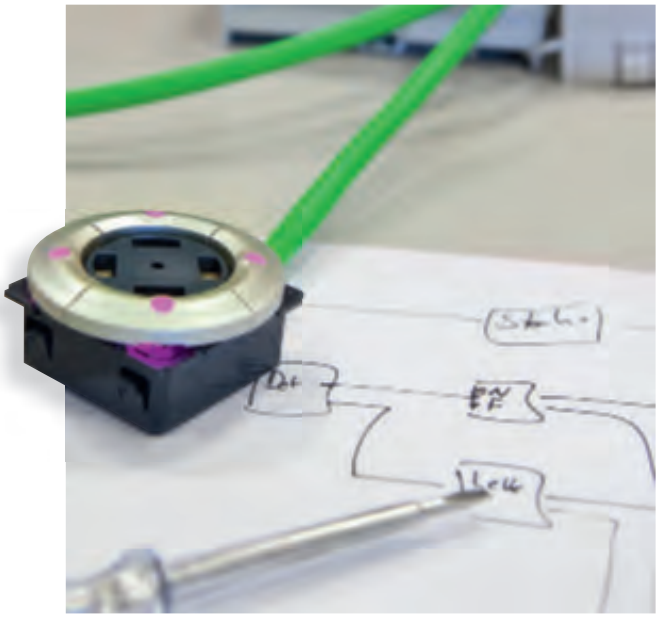
- automatic change to the right temperature depending on whether or not people are present
- supply to power sockets as soon as someone enters an office suite

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**

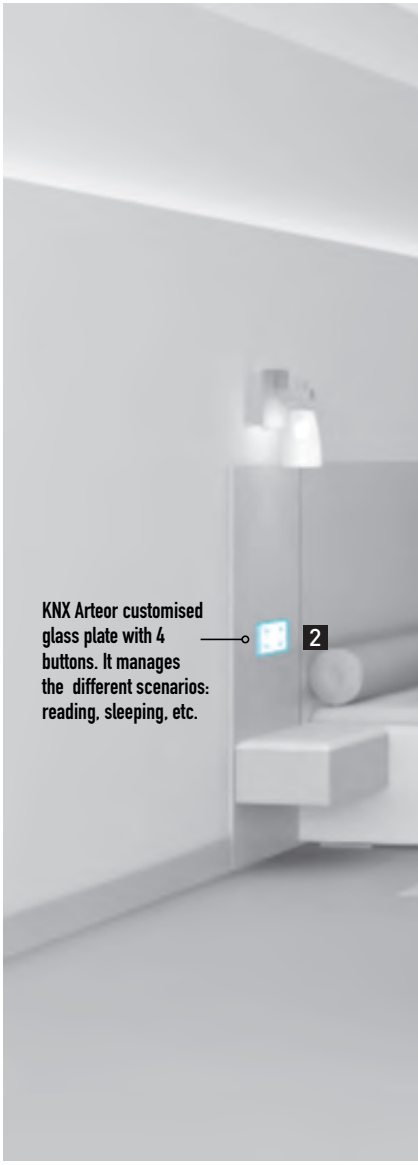
Dedicated **"commercial sector buildings"** solutions

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.



Legrand supervision software

KNX/IP gateway

Cat.No	Qty
0 035 43	1

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4

Arteor 1-way push-button, white

Cat.No	Qty
5 720 15	1 per room

5

Arteor RFID badge holder, white

Cat.No	Qty
5 722 53	1 per room

6

Arteor German standard socket, green

Cat.No	Qty
5 724 62	6 per room

TRADITIONAL CABLING

BUS/KNX

KNX 640 mA power supply

Cat.No	Qty
0 026 94	1 per KNX line

> page 44

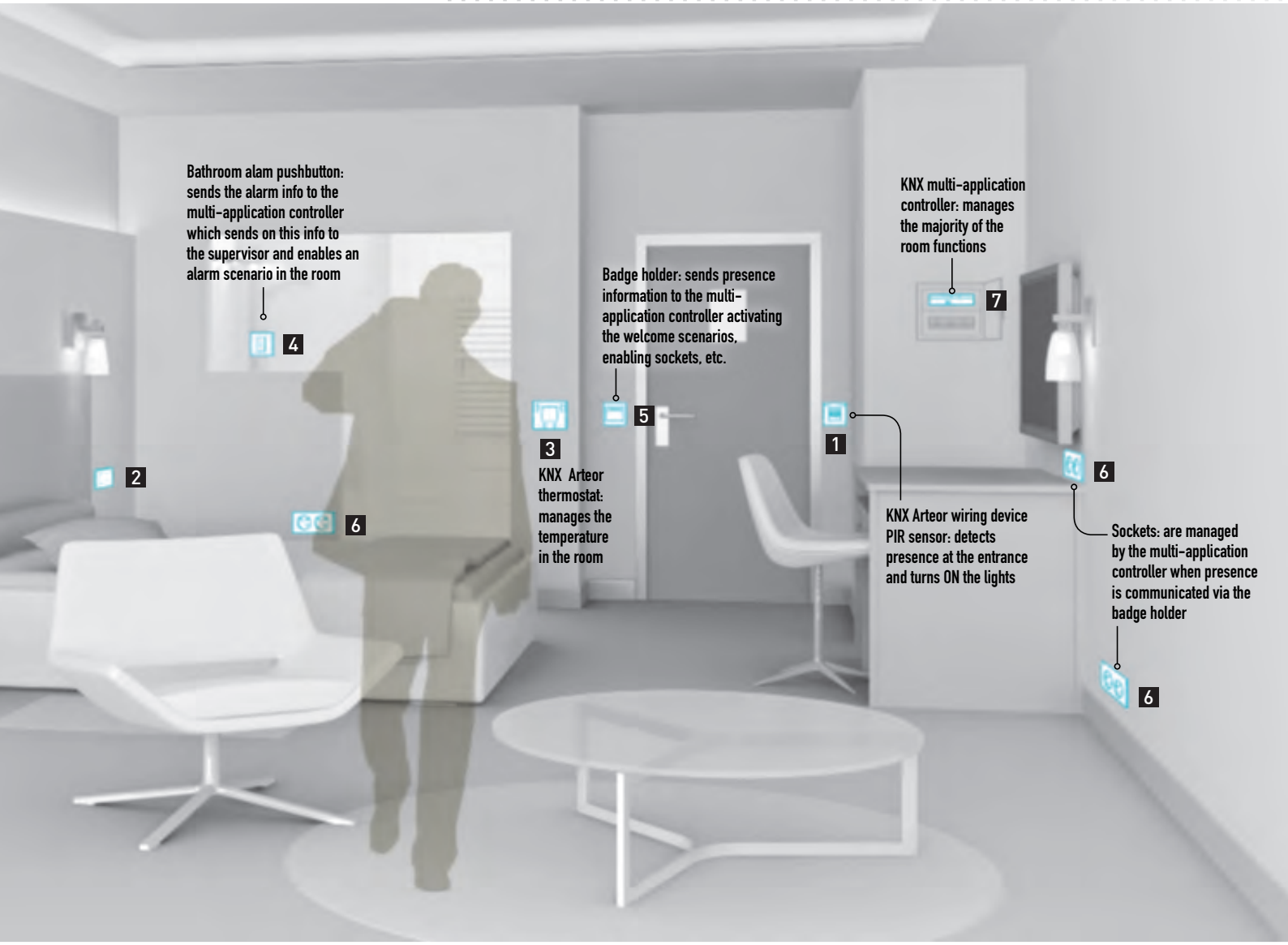
7

KNX Multi-application controller

Cat.No	Qty
0 484 22	1 per room

> page 43

Common solution for several areas



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

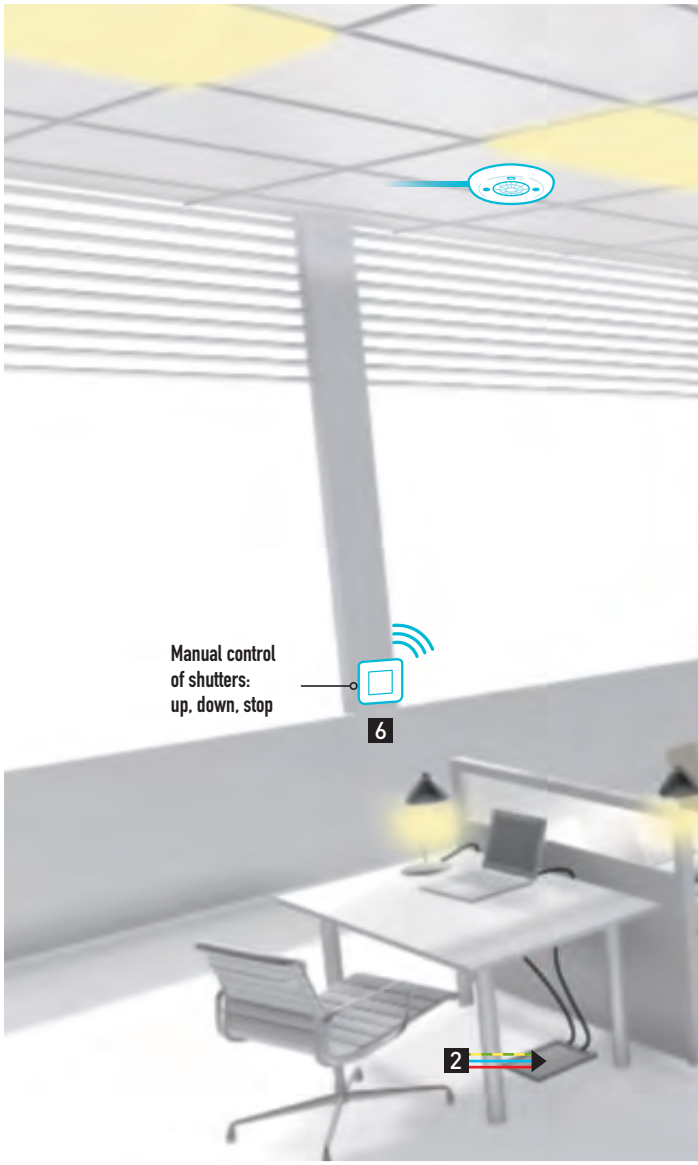
> page 35

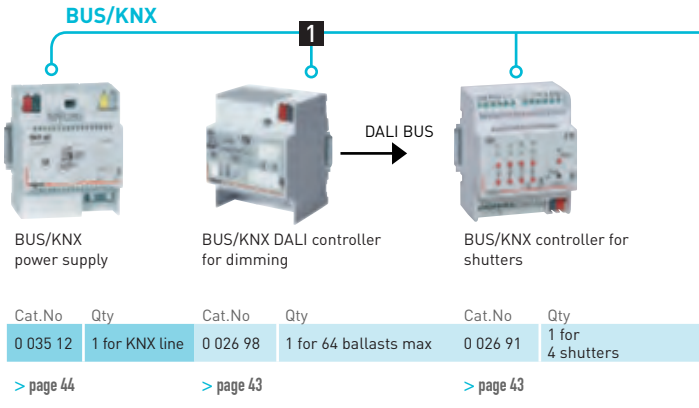
Open space

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

BUS/KNX SOLUTIONS PROVIDING AREAS WITH FLEXIBILITY

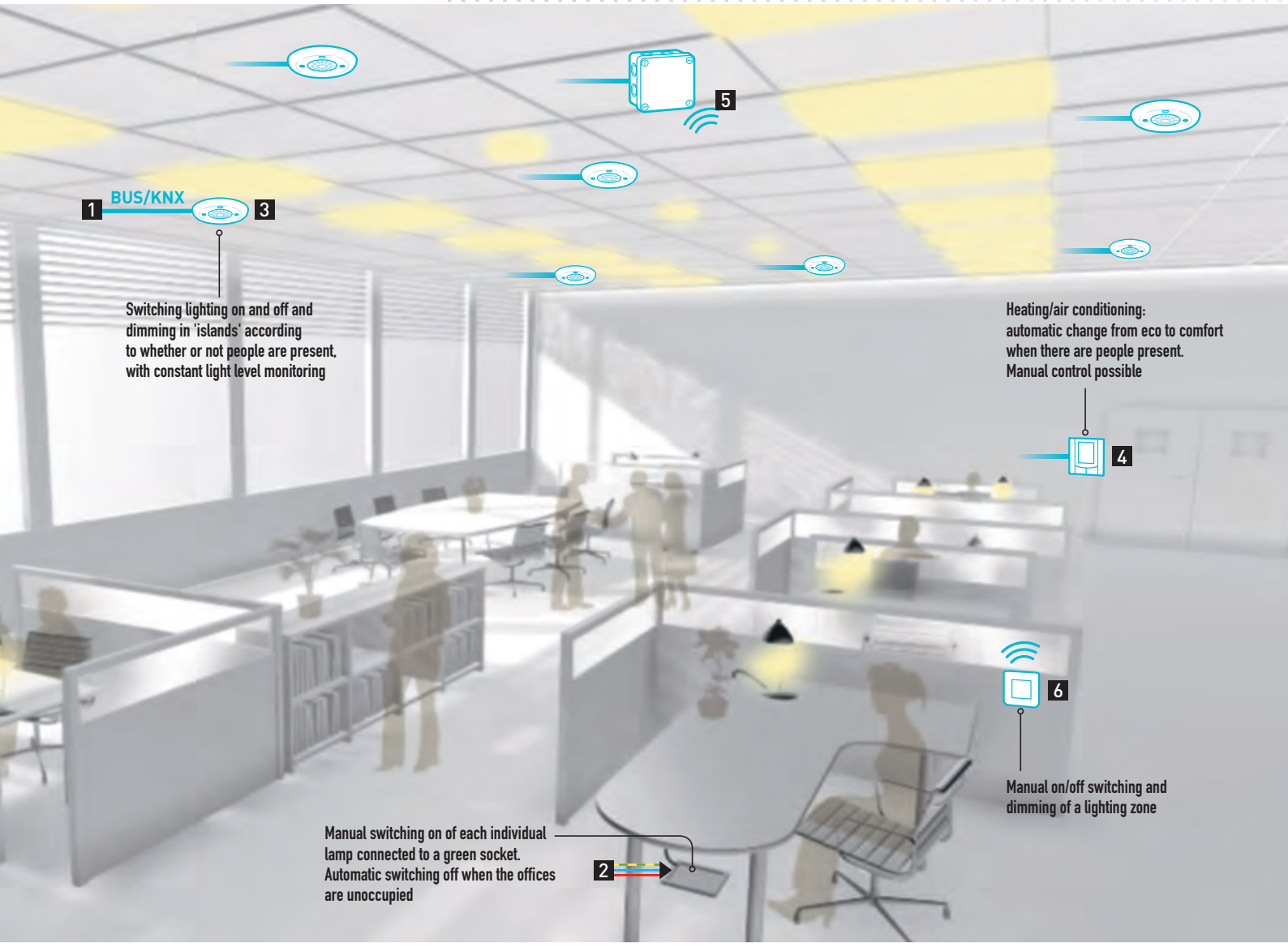
In an office suite, you need to be able to refurbish and re-arrange spaces without touching the wiring and without moving equipment. All you have to do is link detectors and control units to the luminaires, without restriction, with simple programming using the ETS software.





	BUS/KNX power supply	BUS/KNX DALI controller for dimming		BUS/KNX controller for shutters	
Cat.No	0 035 12	0 026 98		0 026 91	
Qty	1 for KNX line	1 for 64 ballasts max		1 for 4 shutters	
	> page 44	> page 43		> page 43	

Common solution for several areas



2

ELECTRICAL PANEL

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

Cat.No	Qty
0 026 80	1 for 4 x 16 A sockets max

> page 43

3

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

4

Room thermostat

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

> page 35

5

Zigbee/KNX gateway

Cat.No	Qty
0 488 77	1 for 16 control units

> page 35

6

Radio control unit without batteries with single push-button

Cat.No	Qty
0 784 61	1 per workstation

> page 35

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

> page 44

BUS/KNX power supply

Cat.No	Qty
0 035 12	1 per KNX line

> 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 91	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

4

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 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

5

6

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

4

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

Cat.No	Qty
0 489 18	1 every 6 m

> page 42

5

Touchscreen control

Cat.No	Qty
0 488 84	1 per room

> page 9

6

Control for 2 ON/OFF and dimming lighting circuits

Cat.No	Qty
0 675 71	1 per door

> page 32

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

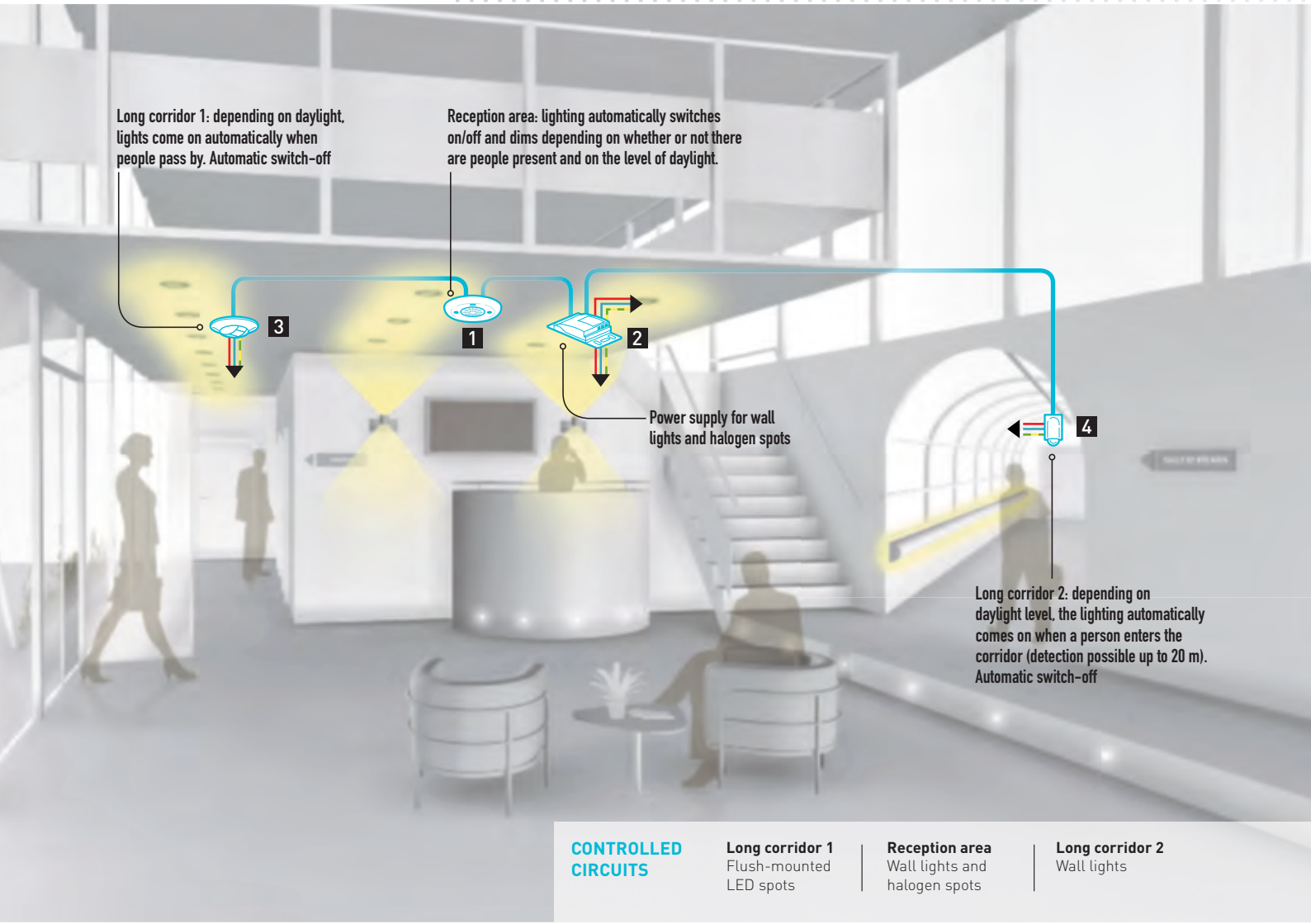
BUS/KNX power supply

Cat.No	Qty
0 035 12	1 per KNX line

> page 44

BUS/KNX

Common solution for several areas



CONTROLLED CIRCUITS

Long corridor 1	Reception area	Long corridor 2
Flush-mounted LED spots	Wall lights and halogen spots	Wall lights

1

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

Cat.No	Qty
0 489 18	1 every 6 m

> page 42

2

BUS/KNX controller in suspended ceiling for dimming DALI lamps

Cat.No	Qty
0 488 64	1 for 2 circuits

> page 43

3

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

4

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 1-10 V 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

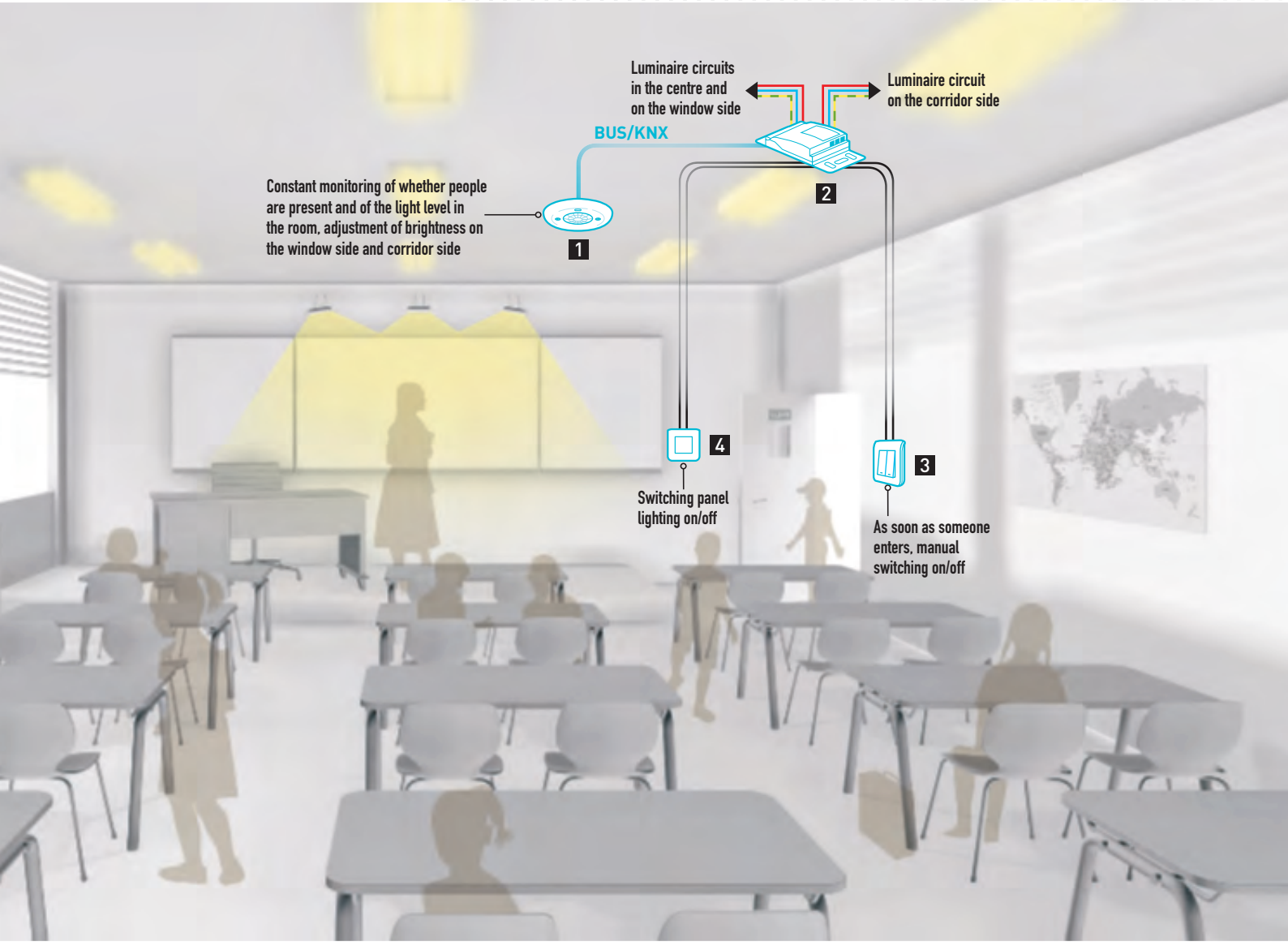
BUS/KNX power supply

Cat.No	Qty
0 035 12	1 for KNX line

> page 44

BUS/KNX

Common solution for several areas



1

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

Cat.No	Qty
0 489 18	1 every 6 m

> page 42

2

BUS/KNX DALI controller in suspended ceiling for dimming

Cat.No	Qty
0 488 64	1 for 4 circuits

> page 43

3

Control for 2 on/off and dimming lighting circuits

Cat.No	Qty
0 784 96	1 per door

> page 32

4

Control for panel lighting

Cat.No	Qty
0 784 89	1 per panel

> page 32

Mosaic™, Céliane™, Arteor™

BUS/KNX manual control units

KNX certified

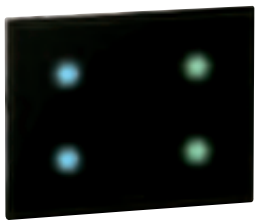
0 784 89

0 784 94

0 784 91

0 675 71 (Mahogany)

0 675 72

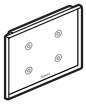
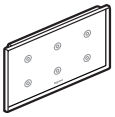

5 735 05

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

Pack	Cat.Nos	Mosaic wired control units
		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
1	0 784 89	○ White
		1 button - 2 actuation points
1	0 784 95	○ White
		2 buttons - 2 actuation points
1	0 784 94	○ White
		2 buttons - 4 actuation points
1	0 784 96	○ White
		4 buttons - 4 actuation points Supplied with label holder for button identification
1	0 784 91	○ White

Pack	Cat.Nos	Céliane wired control units
		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
1	0 675 71	For use with cover plates, ring cover, Céliane plate, and Batibox support frame
		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
1	0 675 70	○ White
1	0 675 79	● Titanium

Pack	Cat.Nos	Céliane wired control units (continued)
		4 buttons touch control units Supplied complete with white or black touch plate
1	0 675 72	○ Kaolin glass
1	0 675 74	● Graphite glass

Pack	Cat.Nos	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
1	0 675 71	4 actuation points To be equipped with key covers for control mechanism
		Square version 4 actuation points - With label holder
1	5 742 03	○ White
1	5 744 04	● Magnesium
		Round version 4 actuation points - With label holder
1	5 735 02	○ White
1	5 735 03	● Magnesium
		4-buttons touch control units Supplied complete with white or black touch plates To be fitted with Batibox support frames
1	5 735 04	 ○ White - for BS flush-mounting boxes
1	5 735 05	● Black - for BS flush-mounting boxes
		6-buttons touch control units Supplied complete with white or black touch plates
1	5 735 12	 ○ White
1	5 735 13	● Black

Céliane™

BUS/KNX manual control key covers

0 681 50

0 684 52

0 684 55

0 685 69

0 684 76

0 684 58

0 683 00

Single key covers

For mechanisms Cat.Nos 0 675 71

Pack	Cat.Nos White	Cat.Nos Titanium	
			Lighting and sound distribution
5	**0 681 50**	**0 684 50**	Left-hand mounting
5	0 681 52	0 684 52	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

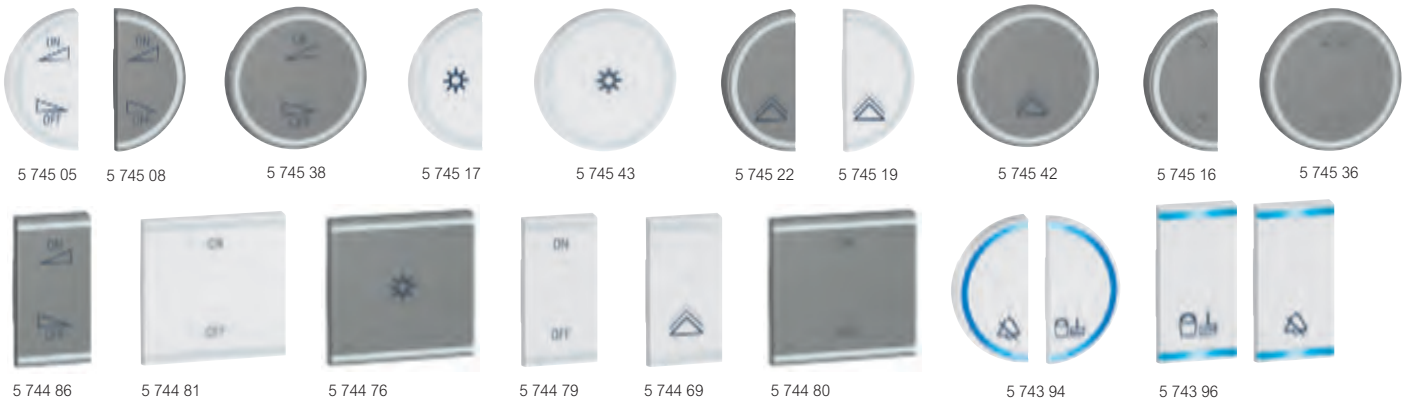
Double key covers

For mechanisms Cat.Nos 0 675 71

Pack	Cat.Nos White	Cat.Nos 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

Pack	Cat.Nos		
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.Nos	KNX thermostats
		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
1	0 490 31	○ White
1	0 490 29	○ White glass
1	0 490 30	● Black glass

Radio extension

BUS/KNX

0 784 61

0 488 77

Pack	Cat.Nos	Zigbee/KNX wireless extension
		Used to control lighting (ON/OFF, dimming) and shutters (up, down, stop) For use with Zigbee/KNX interface Cat.No 0 488 77 Supplied complete with plate and support frame
1	0 784 61	**Mosaic** 1 button - 2 actuation points ○ White

Pack	Cat.Nos	Zigbee/KNX interface
1	0 488 77	Interface providing communication between batteryless radio control units Cat.Nos 0 784 61 (up to 16 control units) and BUS/KNX controllers 180m (outdoor or far field) around the interface so 18m approx. indoor For suspended ceiling installation

Pack	Cat.Nos	Sensors
1	0 883 09	Used to control lighting (ON/OFF, dimming) or trigger automations For use with Zigbee/KNX interface Cat.No 0 488 77 180° passive infrared detection, front range 10 m Recommended fixing height: 2.5 m IP 42 Optimum distance between two sensors: 6 m Sleepy Consumption: 0.032 mA so 0.096 mW Awakened Consumption: 0.932 mA so 2.796 mW Battery powered by 2 x AA LR6

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

Livinglight wired control units

Pack	Cat.Nos	
		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
		4 channels control unit without label display
1	LN4651KNX	To be fitted with Livinglight cover plate, plate and support frame
		4 channels control unit with label display
		Supplied with label holder for button identification To be fitted with Livinglight plate and support frame
1	N4680KNX	○ White
1	NT4680KNX	● Tech
1	L4680KNX	● Anthracite

Axolute wired control units

Pack	Cat.Nos	
		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
1	H4651KNX	To be fitted with Axolute cover plate, plate and support frame
		4 channels control unit with label display
		Supplied with label holder for button identification To be fitted with Axolute plate and support frame
1	HC4680KNX	● Tech
1	HS4680KNX	● Anthracite
1	HD4680KNX	○ White
		6-buttons touch control unit
		Supplied with fitted touch plate Requires Axolute support frame
1	HC4657M3KNX	○ White
1	HS4657M3KNX	● Black
1	HD4657M3KNX	○ Transparent glass

Livinglight

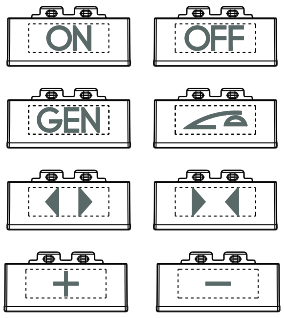
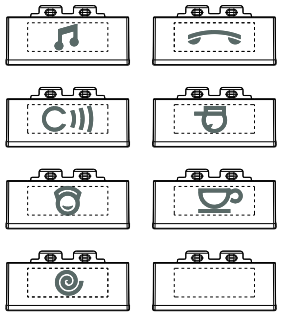
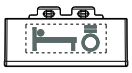
BUS/KNX manual control key covers

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	—

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

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				
HD4915AA	**OFF**	○	HD4915AA	HD4915M2AA
		●	HC4915AA	HC4915/2AA
		■	HS4915AA	HS4915/2AA
	ON	○	HD4915AB	HD4915M2AB
		●	HC4915AB	HC4915/2AB
		■	HS4915AB	HS4915/2AB
	GEN	○	HD4915AC	HD4915M2AC
		●	HC4915AC	HC4915/2AC
		■	HS4915AC	HS4915/2AC
HD4915M2AA	**Dimmer**	○	HD4915AD	HD4915M2AD
		●	HC4915AD	HC4915/2AD
		■	HS4915AD	HS4915/2AD
	Light	○	HD4915BA	HD4915M2BA
		●	HC4915BA	HC4915/2BA
		■	HS4915BA	HS4915/2BA
HC4915/2AA	**Stop**	○	HD4915AE	—
		●	HC4915AE	—
		■	HS4915AE	—
	Bed light	○	HD4915BL	HD4915M2BL
		●	HC4915BL	HC4915M2BL
		■	HS4915BL	HS4915M2BL
HS4915/2AA	**Bell**	○	HD4915BB	HD4915M2BB
		●	HC4915BB	HC4915/2BB
		■	HS4915BB	HS4915/2BB
	Fan	○	HD4915BC	HD4915M2BC
		●	HC4915BC	HC4915/2BC
		■	HS4915BC	HS4915/2BC
HC4915AC HC4915/2AC	**Key**	○	HD4915BD	—
		●	HC4915BC	—
		■	HS4915BC	—
	Music	○	HD4915BE	HD4915M2BE
		●	HC4915BE	HC4915/2BE
		■	HS4915BE	HS4915/2BE
HS4915BA HS4915/2BA	**Nurse**	○	HD4915BF	HD4915M2BF
		●	HC4915BF	HC4915/2BF
		■	HS4915BF	HS4915/2BF
	Do not disturb	○	HD4915DD	HD4915M2DD
		●	HC4915DD	HC4915M2DD
		■	HS4915DD	HS4915M2DD

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 (CONTINUED)				
	Make up room	○	HD4915MR	—
		●	HC4915MR	—
		■	HS4915MR	—

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 - 2 FUNCTIONS				
HD4911AF	**ON - OFF - GEN**	○	HD4911AF	HD4911M2AF
		●	HC4911AF	HC4911/2AF
		■	HS4911AF	HS4911/2AF
	ON - OFF	○	HD4911AG	HD4911M2AG
		●	HC4911AG	HC4911/2AG
		■	HS4911AG	HS4911/2AG
HD4911M2AF	**UP - DOWN**	○	HD4911AH	HD4911M2AH
		●	HC4911AH	HC4911/2AH
		■	HS4911AH	HS4911/2AH
HC4911AF	**ON - OFF ADJUSTMENT**	○	HD4911AI	HD4911M2AI
		●	HC4911AI	HC4911/2AI
		■	HS4911AI	HS4911/2AI
HC4911AG	**Light**	○	HD4911BA	HD4911M2BA
		●	HC4911BA	HC4911/2BA
		■	HS4911BA	HS4911/2BA
	Fan	○	HD4911BC	HD4911M2BC
		●	HC4911BC	HC4911/2BC
		■	HS4911BC	HS4911/2BC
HC4911AI	**Treble clef**	○	HD4911BE	—
		●	HC4911BE	—
		■	HS4911BE	—
HC4911BC	**+ up and - down**	○	HD4911AD	—
		●	HC4911AD	—
		■	HS4911AD	—

Sensors

BUS/KNX

KNX certified

0 489 19

0 489 21

Exists in Céliane version
0 784 93

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.Nos	Special corridor motion sensor
		Ceiling mounted
1	0 489 19	Double passive infrared detection 360°, lateral range 2 x 12 m IP 20 Consumption 0.2 W Recommended fixing height: 2.5 m Optimum distance between two sensors: 20 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

Pack	Cat.Nos	Special motion sensor for outdoor car parks and cellars
		Wall or ceiling mounted - surface mounting
1	0 489 21	Passive infrared detection with 270° adjustable head, range 20 m IP 55 Consumption 0.5 W Recommended fixing height: 2.5 m Can be fixed in a corner with a special accessory Cat.No 0 489 72

Pack	Cat.Nos	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
1	0 784 93	White 180° passive infrared detection, range 8 m IP 41 For use with Mosaic plate and Batibox support frame 2 modules
		Céliane
1	0 675 77	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
		Arteor
		180° passive infrared detection, range 8 m IP 41 - Céliane Arteor plate - a Batibox support frame
1	5 740 37	○ White
1	5 740 79	● Magnesium

Pack	Cat.Nos	Special motion sensor for small premises and bathrooms (continued)
		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
		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

Pack	Cat.Nos	Special presence sensors for work areas
		Suitable for meeting rooms, classrooms, open areas, etc. Dual technology
		Ceiling mounted
1	0 489 18	360° passive infrared and ultrasound detection, 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.Nos 0 488 75 Connection by KNX red/black connector
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
		Wall mounted - surface mounting
1	0 489 20	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

Controllers

false ceiling and modular BUS/KNX

KNX certified

0 488 64

0 484 22

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

Pack	Cat.Nos	False ceiling controllers for dimming
		Each output can be controlled by a sensor and/or BUS/KNX control unit
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	MARCH 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	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
		Controller extension 0 026 59
1	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
	MARCH 2016	**For BT and TBT loads only**
1	0 026 86	2 outputs 2 x 500 VA maximum per output 8 17.5 DIN modules
1	MARCH 2016 0 026 87	4 outputs 4 x 500 VA maximum per output 12 17.5 mm DIN modules
1	MARCH 2016 0 026 88	4 1-10 V outputs and 4 x 16 A switching outputs 8 17.5 mm DIN modules

Pack	Cat.Nos	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
		Modular controller for roller shutters
	MARCH 2016	Each output can be controlled by a sensor and/or BUS/KNX control
1	0 026 91	4 x 2.1 A outputs 4 17.5 mm modules
		Room Controller Unit
		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. 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 18	8 inputs - 10 outputs 8 17.5 mm DIN modules
1	0 484 22	16 inputs - 16 outputs 12 17.5 mm DIN modules

Infrastructure products

BUS/KNX

KNX certified

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.Nos	BUS/KNX interface - voltage contact
		Connects voltage free contacts devices (switches, push-buttons, alarms, etc.) to the BUS/KNX
		Modular
1	0 026 55	8 inputs 6 17.5 mm modules
1	0 026 93	Connects powered contacts devices 2 17.5 DIN modules
		Flush mounting
		For installation in a flush-mounting box
1	0 026 92	4 inputs - 4 outputs

Pack	Cat.Nos	Scenario module
1	0 026 50	Able to perform up to 8 scenarios and 8 events programs 1 17.5 mm module

Pack	Cat.Nos	Line coupler
1	0 035 16	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.Nos	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

Pack	Cat.Nos	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⎓ With additional 29 V unfiltered output
1	0 035 12	320 mA
	MARCH 2016	
1	0 026 94	640 mA 6 17.5 mm DIN modules Voltage 120V∿ 230 VAC - 29 V⎓

Pack	Cat.Nos	IP communication module
1	0 035 43	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

Pack	Cat.Nos	IP/KNX router
1	0 026 38	Can acts as main line or backbone coupler Links differerent KNX networks to each other via the IP infrastructure 2 17.5 mm DIN modules

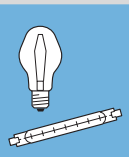
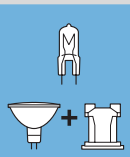
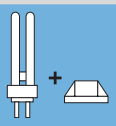
Pack	Cat.Nos	BUS/KNX connector
1	0 488 79	Black and red Supplied in boxes of 50

Pack	Cat.Nos	BUS/KNX cables
		Length 500 m 0.8 mm dia. quad Isolation 4000 V
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 at 230 V a.c. 50-60Hz

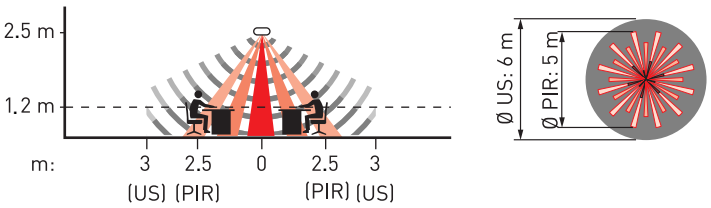
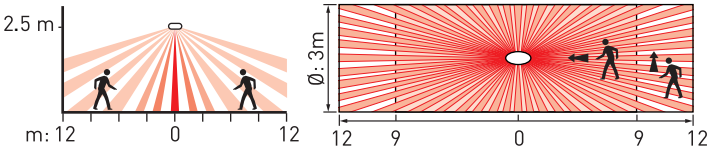
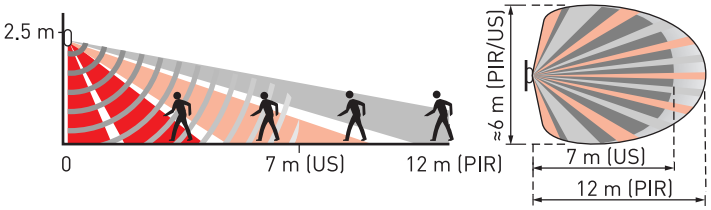
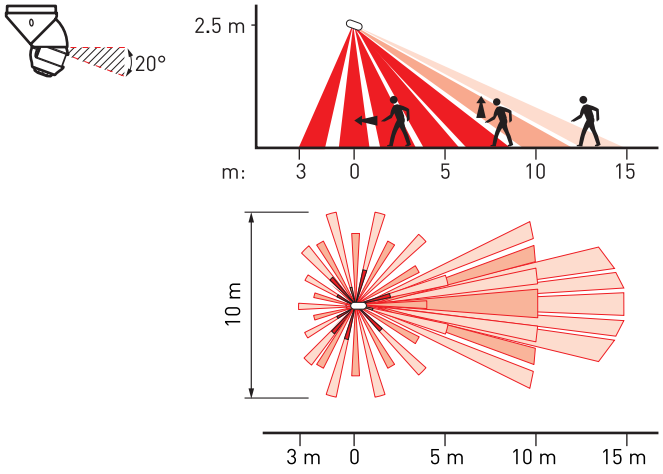
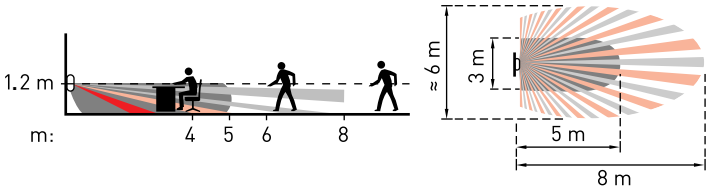
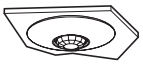
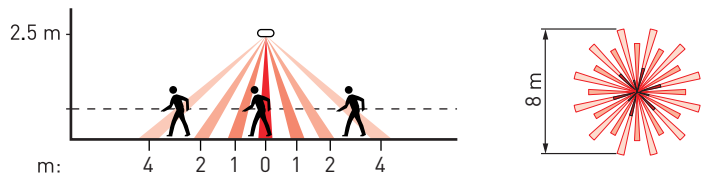
Cat.Nos	Outputs	 Halogen lamp	 ELV halogen lamp with ferromagnetic or electronic transformer	Fluorescent tube	LED and compact fluorescent lamp	 Fluorescent lamp with 1-10 V ballast	DALI	Motors
False ceiling controllers								
0 488 64	**4**	-	-	-	-	-	4 x 32 ballasts	-
0 488 62	**4**	4 x 800 W	4 x 800 VA	4 x 1000 VA	4 x 1000 VA	4 x 1000 VA	-	-
Modular controllers								
0 026 98	**-**	-	-	-	-	-	1 x 64 ballasts	-
0 026 63	**8**	-	-	-	-	-	8 x 8 ballasts	-
0 026 59	**2**	2 x 400 W	2 x 80 W	-	2 x 60 VA(*)			
0 026 91	**-**	-	-	-	-	-	-	4 x 6 A
0 026 61	**4**	4 x 2000 W	4 x 500 VA	4 x 500 VA	4 x 500 VA	-	-	-
0 026 62	**8**	8 x 2000 W	8 x 500 VA	8 x 500 VA	8 x 500 VA	-	-	-
0 484 18	**4** **4** **2**	4 x 500 W 4 x 1000 W 2 x 3680 W	4 x 250 VA 4 x 500 VA 2 x 1000 VA	4 x [2 x (2 x 36 W)] 4 x [4 x (2 x 36 W)] 2 x [10 x (2 x 36 W)]	4 x 80 VA 4 x 160 VA 2 x 500 VA	-	1 x 64 ballasts	4 x 250 VA 4 x 500 VA 2 x 500 VA
0 484 22	**4** **8** **4**	4 x 500 W 8 x 1000 W 4 x 3680 W	4 x 250 VA 8 x 500 VA 4 x 1000 VA	4 x [2 x (2 x 36 W)] 8 x [4 x (2 x 36 W)] 4 x [10 x (2 x 36 W)]	4 x 80 VA 8 x 160 VA 4 x 500 VA	-	1 x 64 ballasts	4 x 250 VA 8 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	-	-	4 x 500 VA
0 026 81	**8**	8 x 3680 W	8 x 1000 VA	8 x [10 x (2 x 36 W)]	8 x 500 VA	-	-	8 x 500 VA
0 026 82	**12**	12 x 3680 W	12 x 1000 VA	12 x [10 x (2 x 36 W)]	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 1000 VA	-	4 x 1000 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)		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.

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 warned
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.Nos	**Legrand Supervision software**
		Supervision software which displays data, analyses and manages alarms for small commercial sector projects: - 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
		Building manager
1	0 035 44	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: - Legrand solutions: lighting management, emergency lighting, power metering, fire alarm - 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) - 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

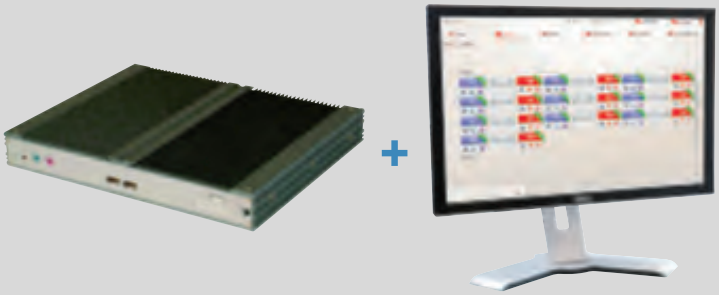
For configuration in expert mode,
Contact your sales department

Building management

active building management

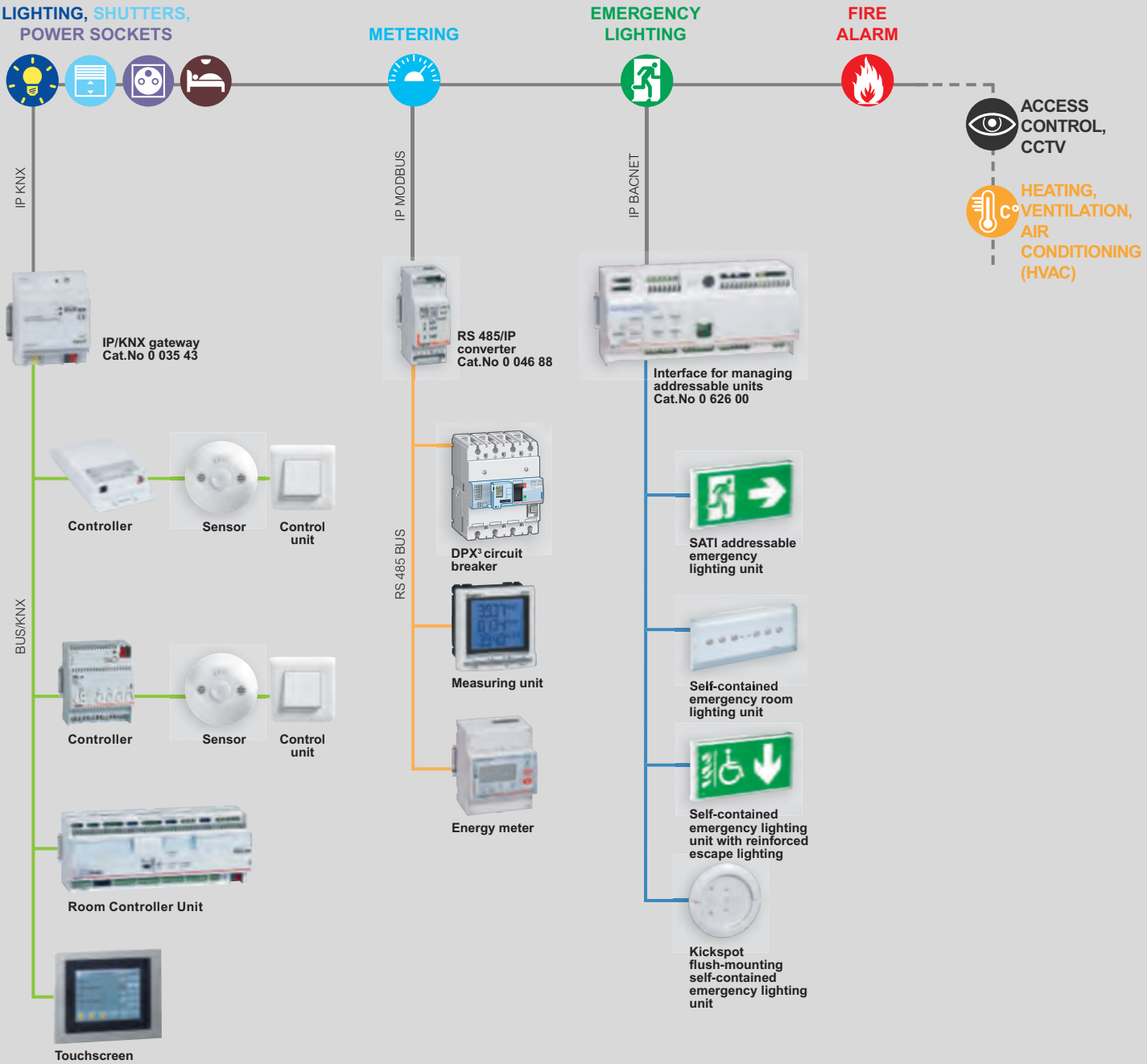
Active building management with Legrand or other systems

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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HC4915/2BB	-	1
HC4915/2BC	-	1
HC4915/2BE	-	1
HC4915/2BF	-	1
HC4915AA	-	1
HC4915AB	-	1
HC4915AC	-	1
HC4915AD	-	1
HC4915AE	-	1
HC4915BA	-	1
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HC4915BC	-	1
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HC4915BE	-	1
HC4915BF	-	1
HC4915BL	-	1
HC4915DD	-	1
HC4915M2BL	-	1
HC4915M2DD	-	1
HC4915MR	-	1
HD4657M3KNX	36	1
HD4658KNX	42	1

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HD4680KNX	36	1
HD4911	40	1
HD4911AD	41	1
HD4911AF	-	1
HD4911AG	-	1
HD4911AH	-	1
HD4911AI	-	1
HD4911BA	-	1
HD4911BC	-	1
HD4911BE	-	1
HD4911M2	40	1
HD4911M2AF	41	1
HD4911M2AG	-	1
HD4911M2AH	-	1
HD4911M2AI	-	1
HD4911M2BA	-	1
HD4911M2BC	-	1
HD4915	40	1
HD4915AA	41	1
HD4915AB	-	1
HD4915AC	-	1
HD4915AD	-	1
HD4915AE	-	1
HD4915BA	-	1
HD4915BB	-	1
HD4915BC	-	1
HD4915BD	-	1
HD4915BE	-	1
HD4915BF	-	1
HD4915BL	-	1
HD4915DD	-	1
HD4915M2	40	1
HD4915M2AA	41	1
HD4915M2AB	-	1
HD4915M2AC	-	1
HD4915M2AD	-	1
HD4915M2BA	-	1
HD4915M2BB	-	1
HD4915M2BC	-	1
HD4915M2BE	-	1
HD4915M2BF	-	1
HD4915M2BL	-	1
HD4915M2DD	-	1
HD4915MR	-	1
HS4657M3KNX	36	1
HS4658KNX	42	1
HS4680KNX	36	1
HS4911	40	1
HS4911/2	-	1
HS4911/2AF	-	1

Cat.Nos	Page no.	Pack
HS4911/2AG	41	1
HS4911/2AH	-	1
HS4911/2AI	-	1
HS4911/2BA	-	1
HS4911/2BC	-	1
HS4911AD	-	1
HS4911AF	-	1
HS4911AG	-	1
HS4911AH	-	1
HS4911AI	-	1
HS4911BA	-	1
HS4911BC	-	1
HS4911BE	-	1
HS4915	40	1
HS4915/2	-	1
HS4915/2AA	41	1
HS4915/2AB	-	1
HS4915/2AC	-	1
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HS4915/2BB	-	1
HS4915/2BC	-	1
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HS4915/2BF	-	1
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HS4915AB	-	1
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HS4915BB	-	1
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HS4915BF	-	1
HS4915BL	-	1
HS4915DD	-	1
HS4915M2BL	-	1
HS4915M2DD	-	1
HS4915MR	-	1
L4658KNX	42	1
L4680KNX	36	1
L4911ADN	38	1
L4911AFN	-	1
L4911AGN	-	1
L4911AHN	-	1
L4911AIN	-	1
L4911BFN	-	1
L4911M2AFN	-	1
L4911M2AGN	-	1

Cat.Nos	Page no.	Pack
L4911M2AHN	38	1
L4911M2AIN	-	1
L4911M2N	-	1
L4911M2TN	39	1
L4911N	38	1
L4911TN	39	1
L4915AN	37	1
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L4915DD	-	1
L4915DN	-	1
L4915FN	-	1
L4915KIT	39	1
L4915M2ADN	37	1
L4915M2AN	-	1
L4915M2BN	-	1
L4915M2DD	-	1
L4915M2DN	-	1
L4915M2FN	-	1
L4915M2LN	-	1
L4915M2TN	39	1
L4915MR	37	1
L4915SETBL	39	1
L4915TN	-	1
LN4651KNX	36	1
N4658KNX	42	1
N4680KNX	36	1
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N4911AFN	-	1
N4911AGN	-	1
N4911AHN	-	1
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N4915M2LN	-	1
N4915M2TN	39	1
N4915MR	37	1
N4915SETBL	39	1
N4915TN	-	1

Cat.Nos	Page no.	Pack
NT4658KNX	42	1
NT4680KNX	36	1
NT4911ADN	38	1
NT4911AFN	-	1
NT4911AGN	-	1
NT4911AHN	-	1
NT4911AIN	-	1
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NT4911M2AFN	-	1
NT4911M2AGN	-	1
NT4911M2AHN	-	1
NT4911M2AIN	-	1
NT4911M2N	-	1
NT4911M2TN	39	1
NT4911N	38	1
NT4911TN	39	1
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NT4915M2FN	-	1
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NT4915M2TN	39	1
NT4915MR	37	1
NT4915N	-	1
NT4915SETBL	39	1
NT4915TN	-	1

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