



# BUS/KNX SOLUTIONS

ACTIVE CONTROL OF LIGHTING,  
SHUTTERS, TEMPERATURE AND  
SOCKET OUTLETS



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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 system to provide complete control of a building with BUS/KNX solutions.



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

**Optimised energy consumption**

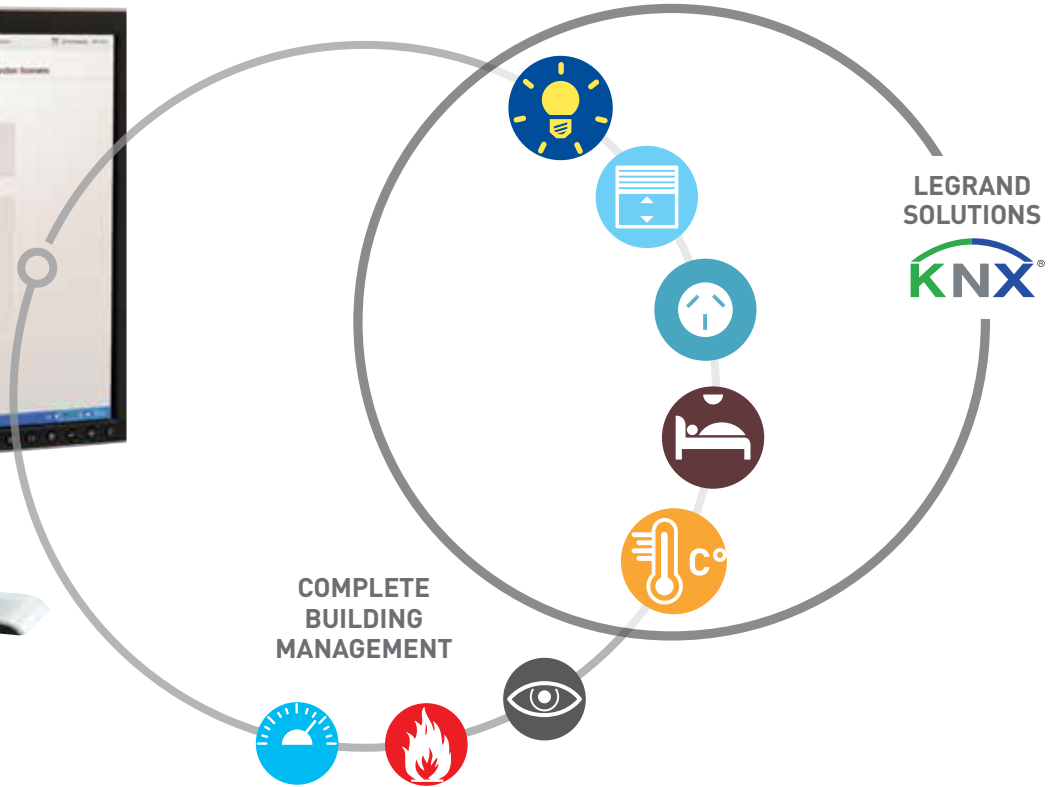
Designed ideally for low consumption accredited constructions, KNX solutions provide optimum management of lighting, shutters, socket outlets and HVAC combined with energy management and supervision solutions, these "Smart Grid Ready" solutions allow you to optimise operating procedures in your installation according to your consumption. Legrand therefore contributes to reducing a building's overall operating costs and meeting the requirements of Green Star 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 sources (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 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 loads.

16

## FLEXIBLE, RELIABLE, AND CONSISTENT CONFIGURATION

Having access to ETS5 - 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.

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## 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 customised applications, the Legrand BUS/KNX control unit manages lighting (ON/OFF, dimming, scenes), roller shutters (raise/lower/stop), awnings, and other 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.

“  
**Really clever,  
infinitely  
stylish!**”

## MANUAL CONTROL UNITS

### One offer, 17 finishes

Combining performance with aesthetics, control units are available in the Arteor range, in 17 elegant finishes.



MIRROR BLACK



GRAPHITE



MIRROR WHITE



PEARL ALU



STAINLESS STEEL



LIGHT OAK

## A wide range of mechanisms for everyday comfort

There are several types of mechanisms available for users convenience.

## Functional diversity

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



PLAIN FASCIA



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



TEMPERATURE CONTROL UNIT



## MANUAL CONTROL UNITS

### LEDs for clear information

All controls, whether a push-button or a touchplate, 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 and purple.

Configurable using ETS 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 two or four 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



WIRELESS SWITCH

KNX WIRELESS INTERFACE

### Thermoregulation control

The temperature control panel is a flush mounted 1,6" backlit display with four push buttons to manage HVAC systems as fan coil unit or floor heating.

#### THE +

- in line with Legrand design
- **Flexibility:** can be combined with several types of HVAC controller



### More advanced control

The 5.7" touchscreen 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 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: several dimming levels can be set within a single space!

#### Supervision informations

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)

### Three fixing systems for optimum flexibility of installation

#### Suspended ceiling

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



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

#### Wall - flush-mounting

Products are installed in a wall box.



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 tiniest movement and it is adapted for both passage ways and working areas.



CAT.NO 0 489 22  
360° PIR detection  
Range 8 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 ETS and the 0 882 30 configuration tool, it is possible to set/modify detector parameters simply and quickly for optimum detection!

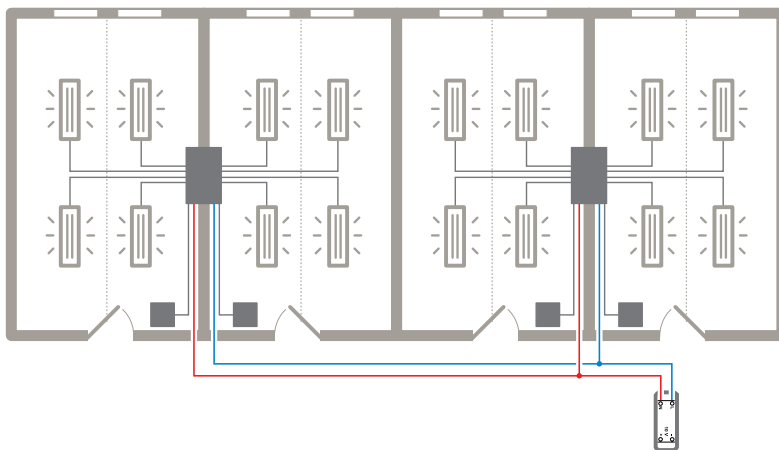
→ SEE PAGE 16/17

# SIMPLIFIED INSTALLATION

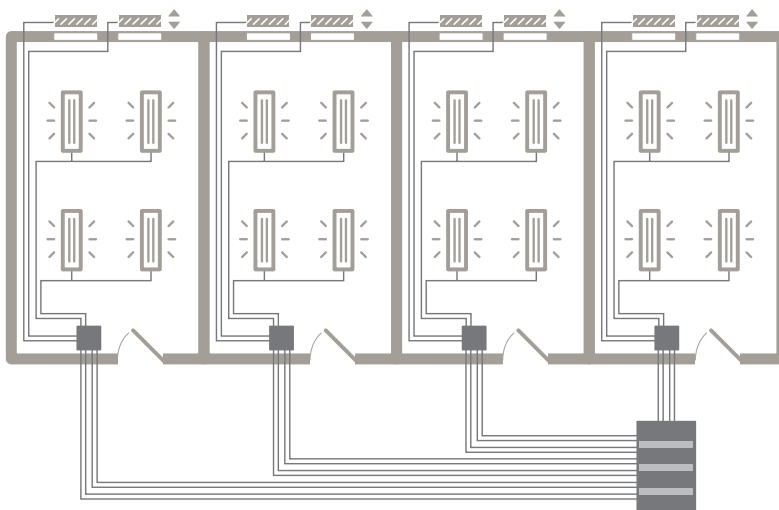
Equipped with different outputs, controllers (also called actuators) receive commands from the control units and act on lighting or shutter loads. Their installation may take one of two form factors.

## DISTRIBUTED INSTALLATION

The controllers are installed in ceiling cavities, next to the loads they operate, but not in the main cabinet as usual



DECENTRALIZED  
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 distribution board.



FOR 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 loads (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  
(Also 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).



## CENTRALIZED 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.

**easy maintenance**

### Modular ON/OFF controllers



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

### Modular controller for roller shutters



4 OUTPUTS

### Modular FCU Controller



ON/OFF CONTROL (PWM)

### Modular FCU Controller



0-10 V

## Controllers

### Modular controllers for dimming

- Flexibility in use DALI/KNX gateway manages a maximum of 64 connected ballasts per channel, the modular DALI controller can handle them individually or in groups (maximum of 16 groups per gateway).
- Control of all sources, universal dimming, full DALI dimming, multiple circuits.



FOR DALI PROTOCOL

### Modular controller for shading

- Controls up to 4 venetian blinds or roller shutters.

### Modular control for HVAC

- ON/OFF and 1-10 V controllers manage any kind of fan coil units.

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



FOR ALL LV AND ELV LOADS

# 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 devices.

## 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, pushbuttons, alarms, etc.) to be connected to BUS/KNX.
- A binary interface is also available allowing the connection of probes, sensors which need to distinguish between two levels of signal.



VOLT-FREE CONTACT BUS/KNX INTERFACE



640 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 two 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 eight 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 a diagnostic on the system.



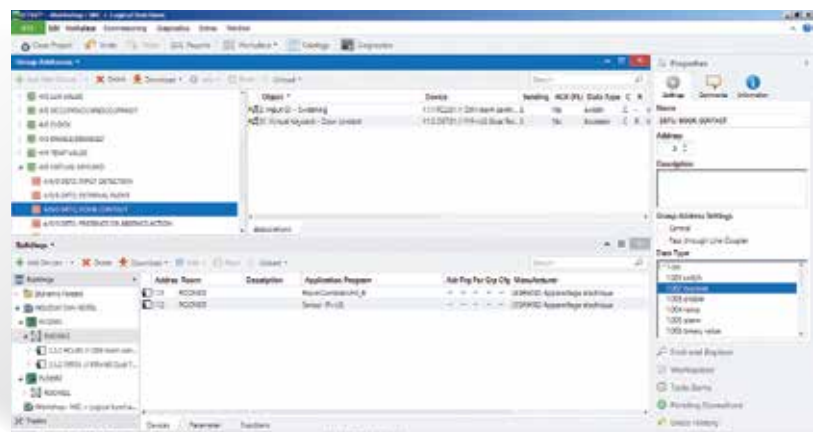
IP COMMUNICATION MODULE

# 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 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](http://www.legrandoc.com).
3. Import all the products into ETS5.



## LEGRAND SOLUTION

### Configuration

As a complement to the ETS software, 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 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



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



	<b>LIGHTING, SHUTTERS, SOCKET OUTLETS</b> <ul style="list-style-type: none"> <li>■ Lighting status: overview and view by area</li> <li>■ Presence of persons</li> <li>■ Light level</li> <li>■ Status of shutters and socket outlets</li> <li>■ Control from the lighting, shutter and socket outlets supervision station, area by area</li> <li>■ Programming according to a day/month/year calendar</li> </ul>	<b>MEASUREMENT</b> <ul style="list-style-type: none"> <li>For each zone and circuit, and by usage, display: <ul style="list-style-type: none"> <li>■ of consumption per day, month, year</li> <li>■ of the comparator with previous periods</li> <li>■ of the detail of electrical values (energy, power, voltage, current, etc.)</li> </ul> </li> </ul>	<b>HOTEL GUEST ROOM MANAGEMENT</b> <ul style="list-style-type: none"> <li>■ Occupancy status: overview and view by room</li> <li>■ Ambient temperature and status of thermoregulation operating mode</li> <li>■ Energy consumption level</li> <li>■ Control temperature setpoint, thermoregulation operating mode, shutter</li> <li>■ Launch scenes such as welcome, checkout, etc.</li> </ul>
VIEW AND CONTROL			
BE WARNED	<ul style="list-style-type: none"> <li>■ System fault display Example: loss of communication</li> <li>■ Change of status of lighting, of a shutter, etc.</li> </ul>	<ul style="list-style-type: none"> <li>■ Over-consumption for the whole building</li> </ul>	<ul style="list-style-type: none"> <li>■ Guest requirements: Make-Up-Room, Do Not Disturb</li> <li>■ SOS alarm</li> <li>■ "Green sensitive" guest</li> </ul>

To personalise needs (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 to set this 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 window shutter



### 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, ...):

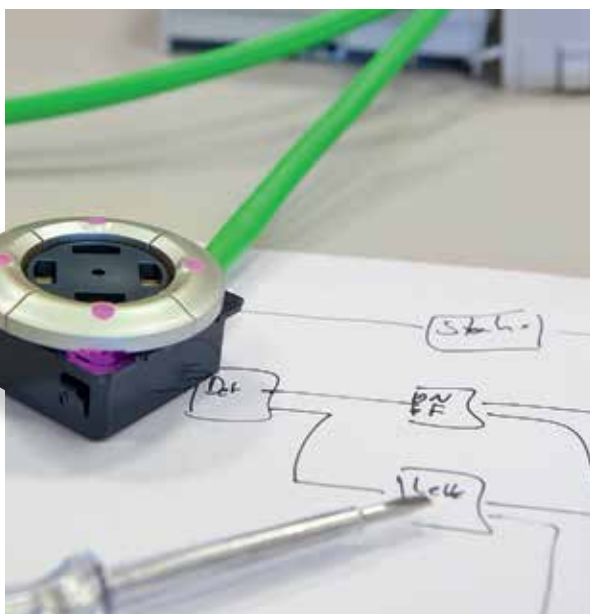
- automatic change to the right temperature depending on whether or not people are present
- supply to power sockets as soon as someone enters an office suite

# LEGRAND WILL ASSIST YOU

## TRAINING

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

→ FIND OUT ABOUT OUR  
ONLINE TRAINING OFFER  
AT [WWW.LEGRAND.COM](http://WWW.LEGRAND.COM)





# APPLICATION EXAMPLES



Dedicated  
“**hotel**”  
solution

22 **Guest room**



Dedicated  
“**commercial  
sector  
buildings**”  
solutions

24 **Open space**

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 guest is present: lighting, sockets, HVAC.

When the guest enters the room the entrance lights are automatically turned ON and when they place their access card in the holder, the HVAC and the sockets are also enabled. The guest is able to manage everything through the different control units, choosing the conditions they prefer according to their 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

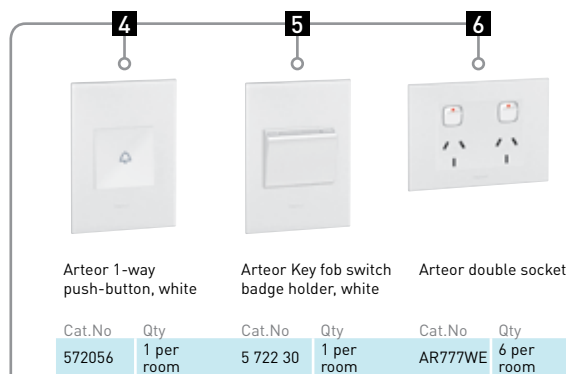
> page 37



KNX 640 mA power supply

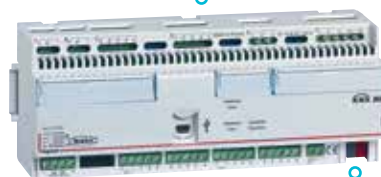
Cat.No	Qty
0 026 94	1 per KNX line

> page 37



TRADITIONAL CABLING

BUS/KNX



KNX Multi-application controller

Cat.No	Qty
0 484 22	1 per room

> page 36

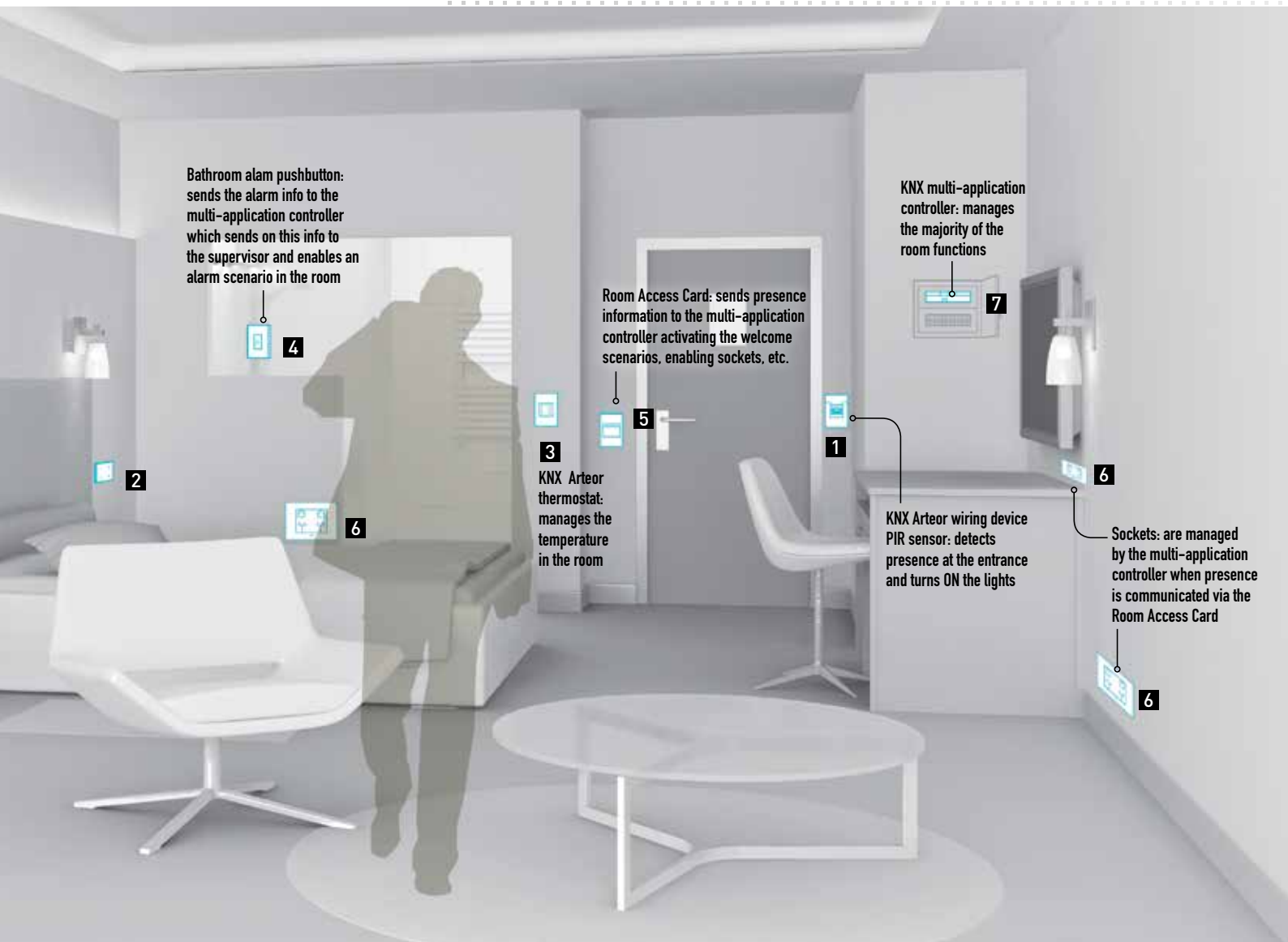


KNX FCU controller

Cat.No	Qty
0 026 97	1 per room

> page 34

Common solution for several areas



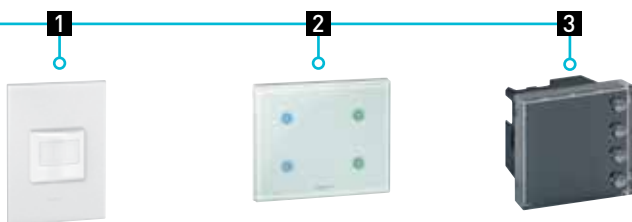
**Bathroom alarm pushbutton:** sends the alarm info to the multi-application controller which sends on this info to the supervisor and enables an alarm scenario in the room

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

**Room Access Card:** sends presence information to the multi-application controller activating the welcome scenarios, enabling sockets, etc.

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

**Sockets:** are managed by the multi-application controller when presence is communicated via the Room Access Card



**1**  
KNX Arteor PIR wiring device sensor

**2**  
KNX Arteor 4-button glass plate, white

**3**  
KNX Temperature control panel

Cat.No	Qty	Cat.No	Qty	Cat.No	Qty
5 740 37	1 per room	5 735 04	2 per room	0 674 64	1 per room

> page 35

> page 32

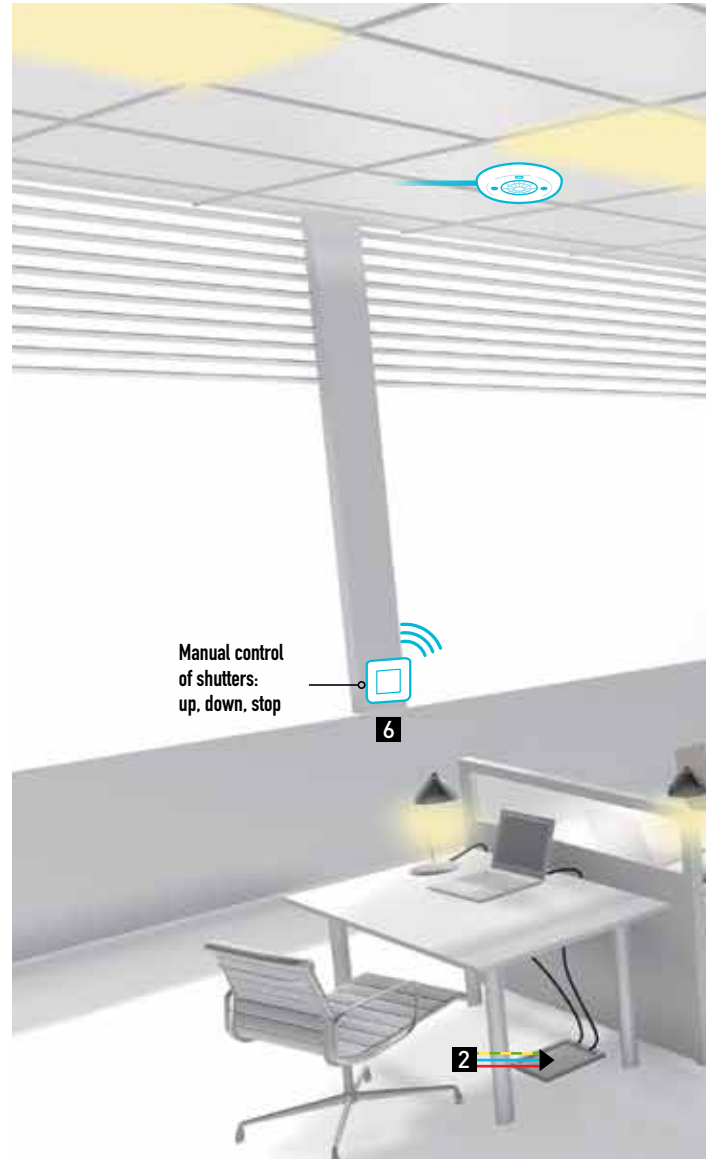
> page 34

# 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 control lighting to ensure occupants comfort. Linking detectors and control units to the luminaries allows for variations in natural daylighting throughout the day.

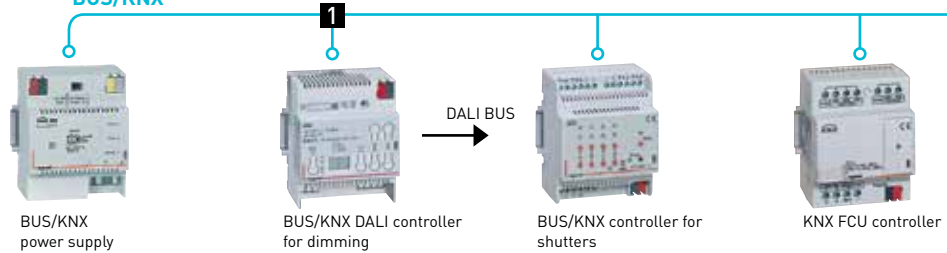


Manual control of shutters:  
up, down, stop

6

2

### BUS/KNX



BUS/KNX power supply

BUS/KNX DALI controller for dimming

BUS/KNX controller for shutters

KNX FCU controller

Cat.No	Qty
0 035 12	1 for KNX line

> page 37

Cat.No	Qty
0 026 98	1 for 64 ballasts max

> page 36

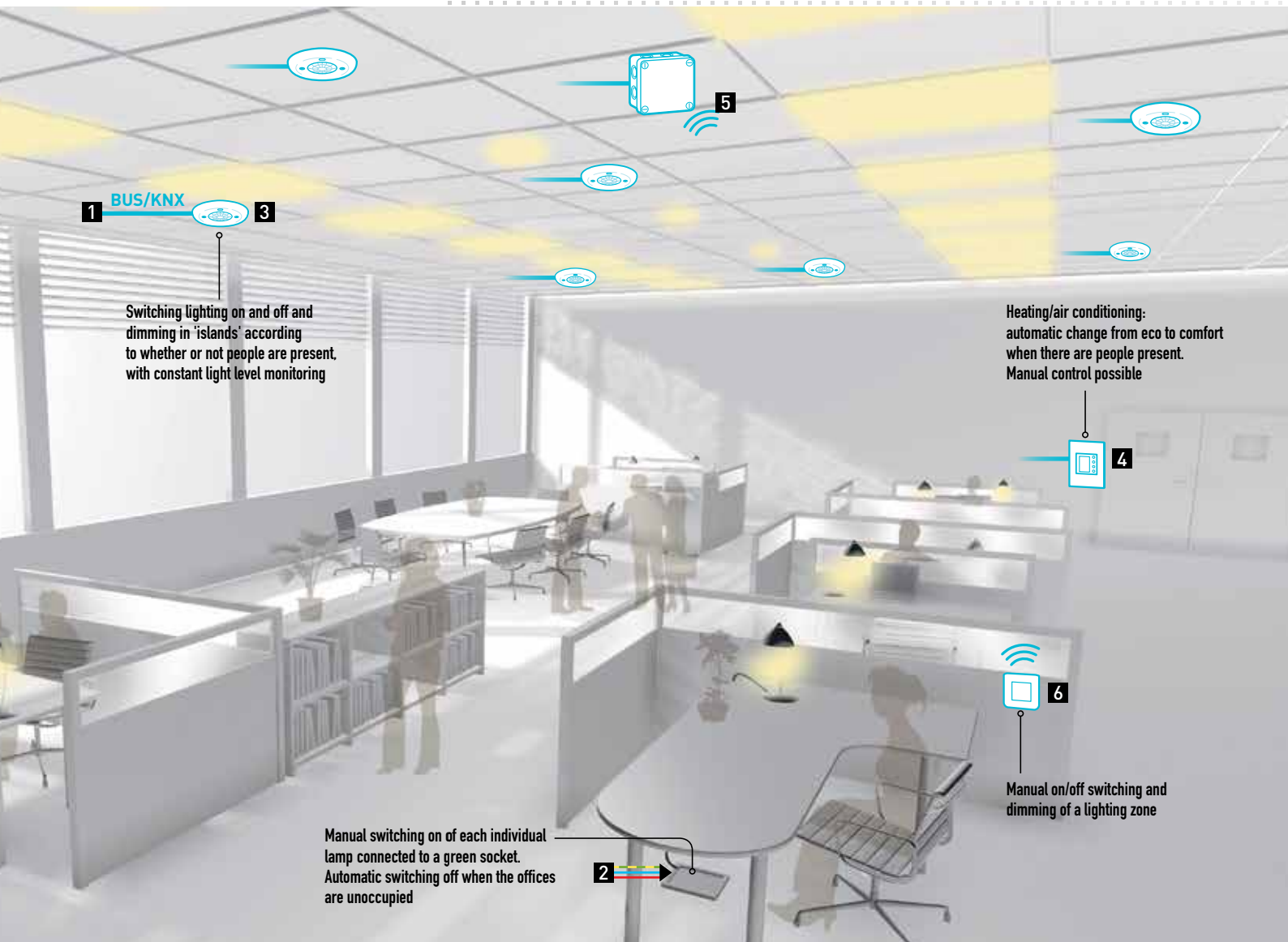
Cat.No	Qty
0 026 91	1 for 4 shutters

> page 36

Cat.No	Qty
0 490 41	1 per room

> page 34

Common solution for several areas



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 36

**ELECTRICAL PANEL**

**OFFICE SUITE**



360° KNX infrared + ultrasound lighting management sensor

Cat.No	Qty
0 489 18	1 every 6 m

> page 35



Temperature control panel

Cat.No	Qty
0 674 64	1 for the office suite

> page 34



Zigbee/KNX gateway

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

> page 34



Radio control unit without batteries with single push-button

Cat.No	Qty
0 784 61	1 per workstation

> page 34



# Meeting room



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

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



BUS/KNX - IP gateway

Cat.No	Qty
0 035 43	1

> page 37



BUS/KNX power supply

Cat.No	Qty
0 035 12	1 per KNX line

> page 37

BUS/KNX

1



BUS/KNX universal ON/OFF controller

Cat.No	Qty
0 026 61	1 for 4 circuits

> page 36

2



BUS/KNX universal dimming controller

Cat.No	Qty
0 026 59	1 for 2 circuits

> page 36

3



BUS/KNX controller for shutters

Cat.No	Qty
0 026 91	1 for 4 circuits

> page 36

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



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

Cat.No Qty  
0 489 18 1 every 6 m

> page 35



Touchscreen control

Cat.No Qty  
0 488 84 1 per room

> page 32



Control for 2 ON/OFF and dimming lighting circuits

Cat.No Qty  
0 675 71 1 per door

> page 32

ELECTRICAL PANEL

OFFICE SUITE

# 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 human presence is detected and if the natural daylight is insufficient.



Legrand supervision software



BUS/KNX - IP gateway

Cat.No	Qty
0 035 43	1

> page 37



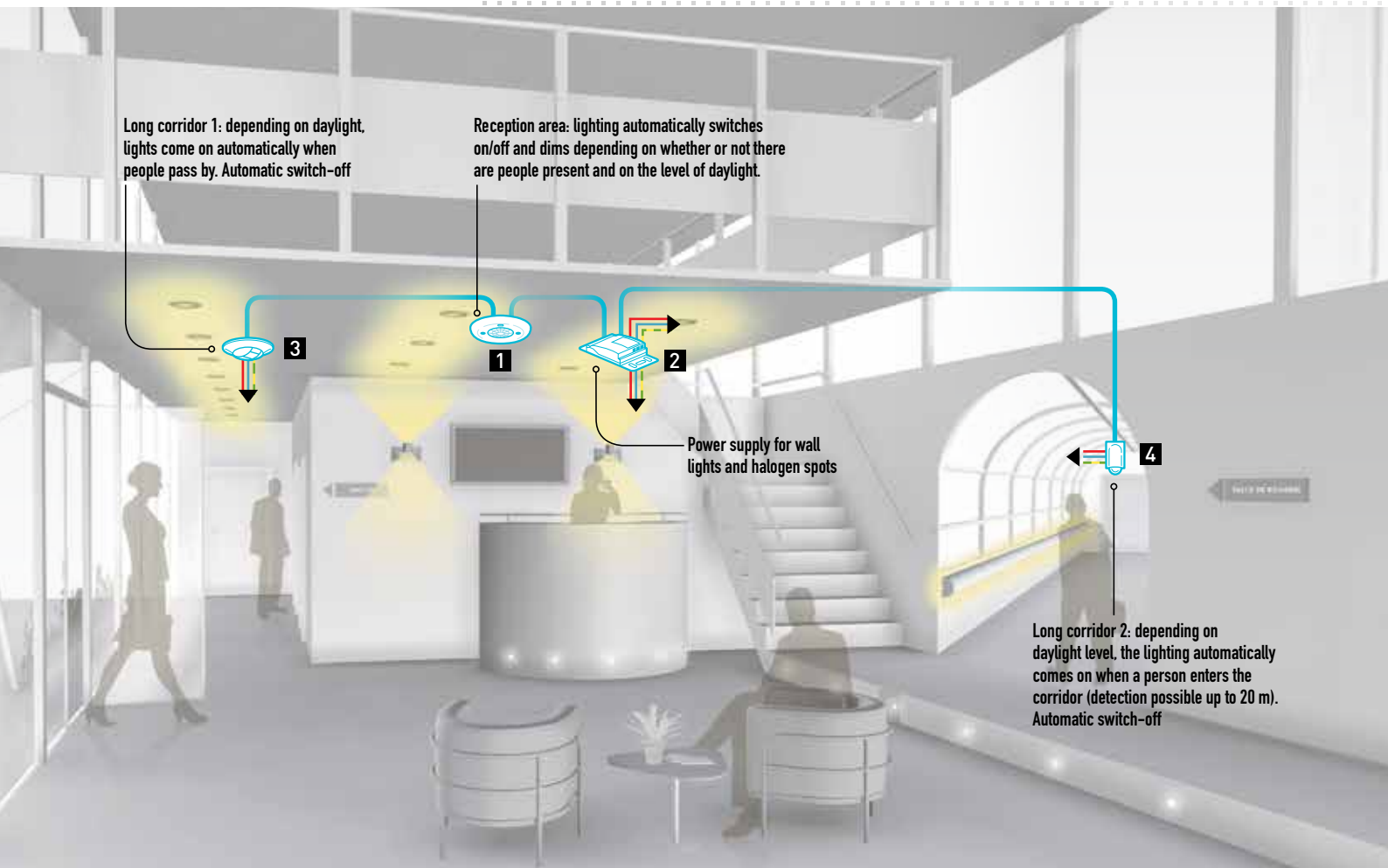
BUS/KNX power supply

Cat.No	Qty
0 035 12	1 per KNX line

> page 37

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 35



BUS/KNX controller in suspended ceiling for dimming DALI lamps

Cat.No	Qty
0 488 88	1 for 2 circuits

> page 36



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 35



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

Cat.No	Qty
0 489 20	1 every 6 m

> page 35



ON/OFF or dimming 1-10V BUS/KNX controller in suspended ceiling

Cat.No	Qty
0 488 87	1 for 4 circuits

> page 36

# 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 37



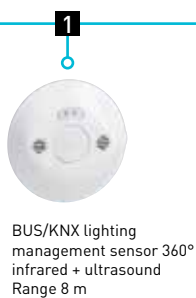
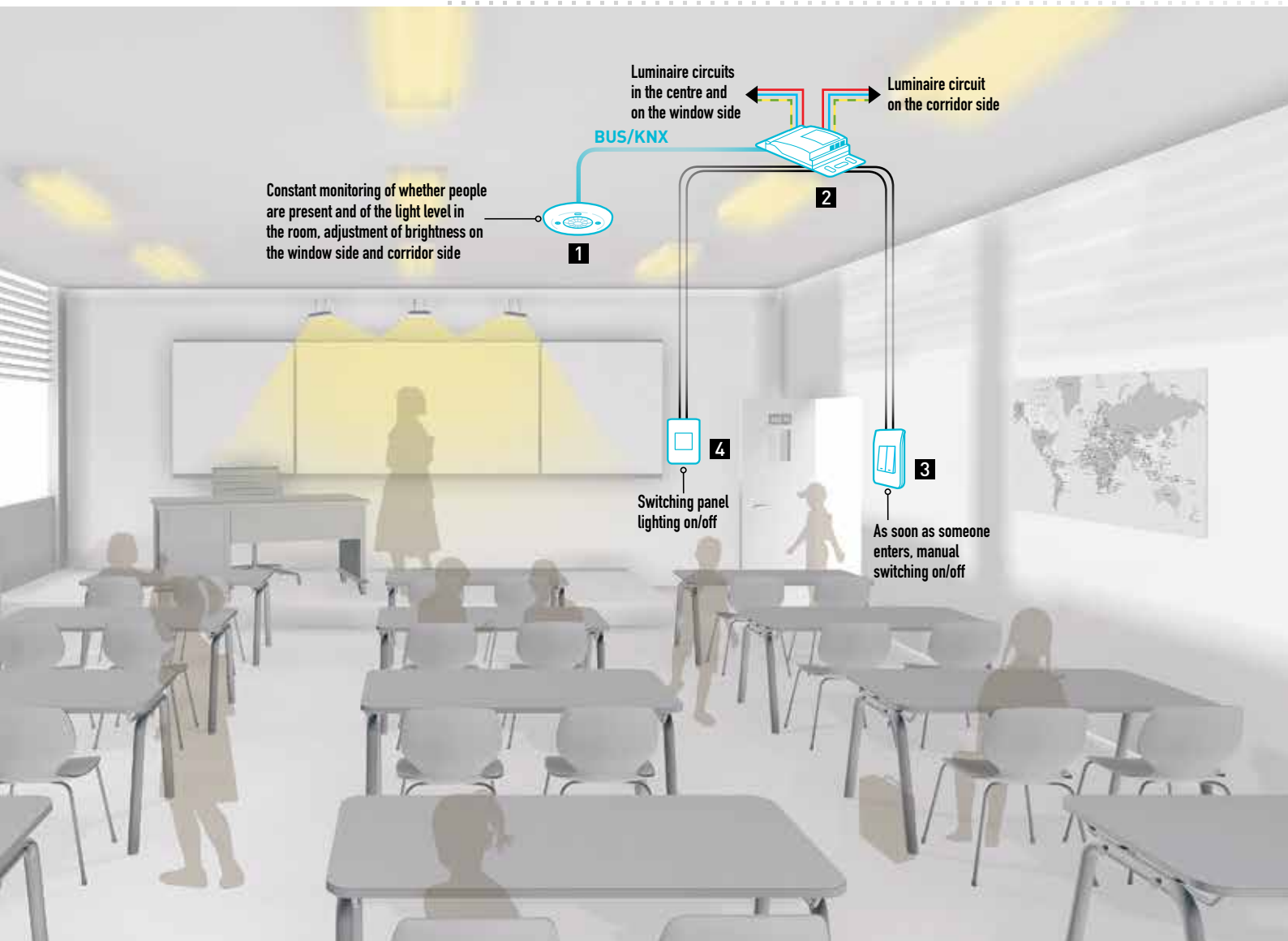
BUS/KNX power supply

Cat.No	Qty
0 035 12	1 for KNX line

> page 37

BUS/KNX

Common solution for several areas



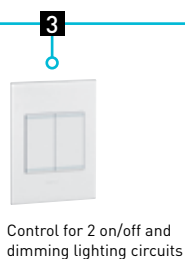
Cat.No	Qty
0 489 18	1 every 6 m

> page 35



Cat.No	Qty
0 488 88	1 for 4 circuits

> page 36



Cat.No	Qty
0 675 91 + 574465 x 2	1 per door

> page 32



Cat.No	Qty
0 675 91 + 574467	1 per panel

> page 32

# Arteor™

## BUS/KNX manual control units

KNX  
KNX certified



574404



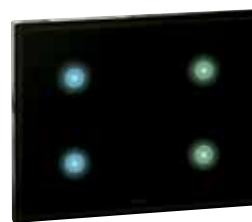
067571



573502



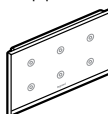


573504



573513

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

Pack	Cat No.	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 installed in Arteor support frames and fitted with Arteor coverplates
1	0 675 71	<b>4 channels control unit without label display</b> 4 actuation points To be equipped with key covers for control mechanism 
1	5 742 03	<b>Square version</b> 4 actuation points - With label holder ○ White ● Magnesium
1	5 744 04	
1	5 735 02	<b>Round version</b> 4 actuation points - With label holder ○ White ● Magnesium
1	5 735 03	
1	5 735 04	<b>4-buttons touch control units</b> Supplied complete with white or black touch plates To be fitted with Batibox support frames ○ White - for BS flush-mounting boxes ● Black - for BS flush-mounting boxes 
1	5 735 05	
1	5 735 12	<b>6-buttons touch control units</b> Supplied complete with white or black touch plates ○ White ● Black 
1	5 735 13	
		<b>Touchscreen</b>
1	0 488 84	Used to control up to 110 KNX functions. Display data for energy management, temperature and dimming <b>5.7" touchscreen</b> Supplied complete with surround frame



# Arteor™

## BUS/KNX manual control key covers

Key cover description	Pack	Number of modules	ROUND VERSION		SQUARE VERSION				
			White	Magnesium	White	Magnesium			
	5	1		5 745 05		5 745 06		5 744 87	5 744 86
	5	1		5 745 07		5 745 08			
	5	2		5 745 37		5 745 38		5 744 89	5 744 88
	5	1		5 745 17		5 745 18		5 744 75	5 744 74
	5	2		5 745 43		5 745 44		5 744 77	5 744 76
	5	1		5 745 20		5 745 22		5 744 69	5 744 68
	5	1		5 745 19		5 745 21			
	5	2		5 745 41		5 745 42		5 744 71	5 744 70
	5	1		5 745 15		5 745 16		5 744 93	5 744 92
	5	2		5 745 35		5 745 36		5 744 95	5 744 94
	5	2		5 745 39		5 745 40		5 744 73	5 744 72
	5	1		5 745 24		5 745 26		5 744 83	5 744 82
	5	1		5 745 23		5 745 25			
	5	2		5 745 31		5 745 32		5 744 85	5 744 84
	5	1		5 745 28		5 745 30		5 744 79	5 744 78
	5	1		5 745 27		5 745 29			
	5	2		5 745 33		5 745 34		5 744 81	5 744 80
	5	1		5 745 11		5 745 12		5 744 91	5 744 90
	5	1		5 745 45		5 745 46		5 745 47	5 745 48
	5	1		5 745 09		5 745 10		5 744 65	5 744 64
	5	2		5 745 13		5 745 14		5 744 67	5 744 66
	5	2		5 743 46		5 743 47		5 743 48	5 743 49
	2	1		5 743 94		5 743 95		5 743 96	5 743 97

## Radio extension


BUS/KNX



0 784 61



0 488 77

Pack	Cat.Nos	Zigbee/KNX wireless extension
1	0 784 61	<p>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 button - 2 actuation points ○ White</p> 
1	0 488 77	<p><b>Zigbee/KNX interface</b> 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</p>
1	0 883 09	<p><b>Sensors</b> 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 or 0.096 mW Awakened Consumption: 0.932 mA or 2.796 mW Battery powered by 2 x AA LR6</p>

## Thermoregulation

BUS/KNX



0 674 64



0 026 97



0 490 41

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

Pack	Cat.Nos	Temperature control panel
1	0 674 64	<p>Flush mounted 1.6" backlight display with 4 push-buttons and embedded temperature probe Used to manage different types of heating/cooling system (FCU, heating/cooling valve, fan, electric load, ...) in combination through KNX with dedicated HVAC controller (ref. 0 026 97 or 0 490 41) - Monitoring the ambient temperature with desired unit - Adjustment of the temperature set-point and/or fan speed - Selection of operating mode (comfort, eco, protection, OFF) To be installed in flush-mounting boxes 2 modules Arteor</p>
1	0 026 97	<p><b>DIN FCU controller ON/OFF</b> Actuator with internal thermoregulation to control FCU or thermal valves In combination with the temperature control panel, can be used to manage ambient temperature according to end-user requests: operating mode, temperature adjustment - 2 folds valve ON/OFF control (2 A - 75~256V a.c.) - 1 fold fan control - 3 speeds (6 A - 230V a.c.) - 1 binary input check - window contact (9~265 V a.c./V d.c.) - Operating temperature -5 to 45°C - Operating voltage 230V a.c. +/- 10% (50/60 Hz) 4 DIN modules 17.5 mm</p>
1	0 490 41	<p><b>DIN FCU controller 0-10 V</b> Actuator with internal thermoregulation to control FCU, fan, thermal valves, electric load In combination with the temperature control panel, can be used to manage ambient temperature according to end-user requests: operating mode, temperature adjustment - 2 outputs 0-10V d.c. to control thermal valves (5 mA) - 5 outputs (relays) to control fan (3 speeds) and/or thermal valves (10 A - 230V a.c.) - Operating temperature -5 to 45°C - Operating voltage supplied by the KNX bus 4 DIN modules 17.5 mm Possibility to power the 0-10 V valves in using the transformer 24V a.c. ref. 4 130 95</p>

# Sensors

## BUS/KNX



0 489 19



0 489 21



574037



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
1	0 489 19	<b>Ceiling mounted</b> 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
1	0 489 21	<b>Special motion sensor for outdoor car parks and cellars</b> <b>Wall or ceiling mounted - surface mounting</b> 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
1	5 740 37	<b>Special motion sensors for small premises and bathrooms</b> Wall mounted - flush or surface mounting Recommended fixing height: 1.2 m Consumption 0.2 W Optimum distance between two sensors: 6 m <b>Arteor</b> 180° passive infrared detection, range 8 m IP 41 - Arteor plate - To be used in conjunction with a Batibox support frame
1	5 740 79	

Pack	Cat.Nos	Special presence sensors for work areas
1	0 489 18	Suitable for meeting rooms, classrooms, open areas, etc. <span style="background-color: #0070C0; color: white; padding: 2px;">Dual technology</span> <b>Ceiling mounted</b> 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
1	0 489 20	<b>Wall mounted - surface mounting</b> 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



0 488 88



0 484 22

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

Pack	Cat.Nos	False ceiling controllers for dimming
1	0 488 88	Each output can be controlled by a sensor and/or BUS/KNX control unit <b>For DALI protocol</b> 4 outputs 32 ballasts maximum per output
1	0 488 87	<b>For 1-10 V ballast</b> 4 outputs 1000 VA maximum per output Also controls four ON/OFF circuits
<b>Modular controllers for dimming</b>		
1	0 026 98	Each output can be controlled by a sensor and/or BUS/KNX control unit <b>For DALI protocol</b> 2 outputs Individually controls 64 ballasts per channel 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
	<b>JUN 2017</b> 0 026 54	2 outputs 2 x 300 W/VA maximum per output 4 17.5 mm DIN modules
1	0 026 59	<b>LED and all others LV and ELV loads</b> 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
<b>Controller extension 0 026 59</b>		
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
1	0 026 86	<b>For LV and ELV loads only</b> 2 outputs 2 x 500 VA maximum per output 8 17.5 DIN modules
1	0 026 87	4 outputs 4 x 500 VA maximum per output 12 17.5 mm DIN modules
1	0 026 88	4 1-10 V 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	<b>8 A for lighting</b> 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
		<b>16 A for lighting, sockets and electrical equipment</b>
1	0 026 80	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
<b>Modular controller for roller shutters</b>		
1	0 026 91	Each output can be controlled by a sensor and/or BUS/KNX control 4 x 2.1 A outputs 4 17.5 mm modules
<b>Room Controller Unit</b>		
		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



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

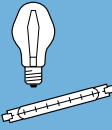
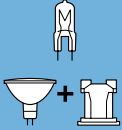


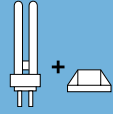

Pack	Cat.Nos	<b>BUS/KNX interface - voltage contact</b>
1	0 026 55	<b>Modular</b> Connects voltage free contacts devices (switches, push-buttons, alarms, etc.) to the BUS/KNX 8 inputs 6 17.5 mm modules
1	0 026 93	Connects 0 to 265V a.c./d.c. powered contacts devices 2 17.5 DIN modules
1	0 026 92	<b>Flush mounting</b> For installation in a flush-mounting box 4 inputs - 4 outputs
1	0 026 50	<b>Scenario module</b> Able to perform up to 8 scenarios and 8 events programs 1 17.5 mm module
1	0 035 16	<b>Line coupler</b> 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	<b>BUS/KNX - USB interface</b>
1	0 035 47	Connects a PC to the BUS/KNX via the USB port 1 17.5 mm DIN module
1	0 035 12 0 026 94	<b>Modular power supplies</b> 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 120-230V a.c. - 29V d.c. With additional 29 V unfiltered output 320 mA 640 mA 6 17.5 mm DIN modules Voltage 120-230V a.c. - 29V
1	0 035 43	<b>IP communication module</b> BUS/KNX - IP gateway 2 functions: - IP interface: makes the link between the BUS/KNX infrastructure and the IP network for remote configuration using ETS software - Web communication interface for remotely managing via a dedicated Web page Allows operation from off site 4 17.5 mm DIN modules
1	0 026 38	<b>IP/KNX router</b> Can acts as main line or backbone coupler Links different KNX networks to each other via the IP infrastructure 2 17.5 mm DIN modules
1	0 488 79	<b>BUS/KNX connector</b> Black and red Supplied in boxes of 50
1	0 492 91 0 492 92	<b>BUS/KNX cables</b> Length 500 m 0.8 mm dia. quad Isolation 4000V 1 pair: red/black 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
<b>False ceiling controllers</b>								
0 488 88	4	-	-	-	-	-	4 x 32 ballasts	-
0 488 87	4	4 x 800 W	4 x 800 VA	4 x 1000 VA	4 x 1000 VA	4 x 1000 VA	-	-
<b>Modular controllers</b>								
0 026 98	2	-	-	-	-	-	2 x 64 ballasts	-
0 026 63	8	-	-	-	-	-	8 x 8 ballasts	-
0 026 54	2	2 x 300 W	2 x 200 VA	2 x 300 VA	2 x 75 W	-	-	-
0 026 59	2	2 x 400 W	2 x 80 W	-	2 x 60 VA(*)	-	-	-
0 026 91	4	-	-	-	-	-	-	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 x 500 W	4 x 250 VA	4 x [2 x (2 x 36 W)]	4 x 80 VA	-	1 x 64 ballasts	4 x 250 VA
	4	4 x 1000 W	4 x 500 VA	4 x [4 x (2 x 36 W)]	4 x 160 VA	-		4 x 500 VA
	2	2 x 3680 W	2 x 1000 VA	2 x [10 x (2 x 36 W)]	2 x 500 VA	-		2 x 500 VA
0 484 22	4	4 x 500 W	4 x 250 VA	4 x [2 x (2 x 36 W)]	4 x 80 VA	-	1 x 64 ballasts	4 x 250 VA
	8	8 x 1000 W	8 x 500 VA	8 x [4 x (2 x 36 W)]	8 x 160 VA	-		8 x 500 VA
	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 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	-	-



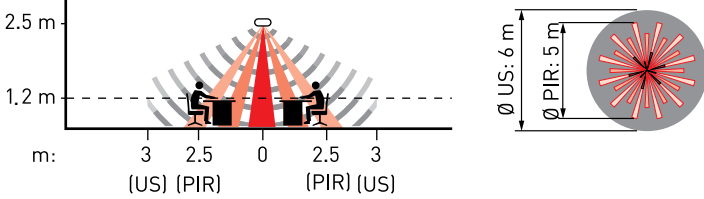


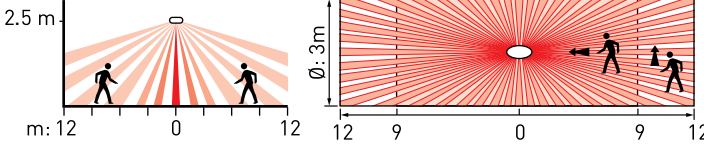


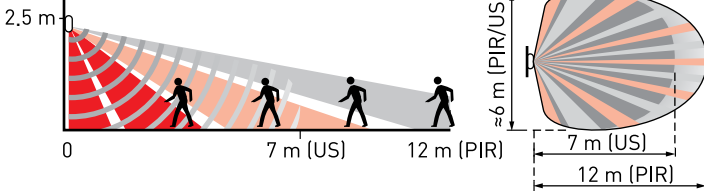



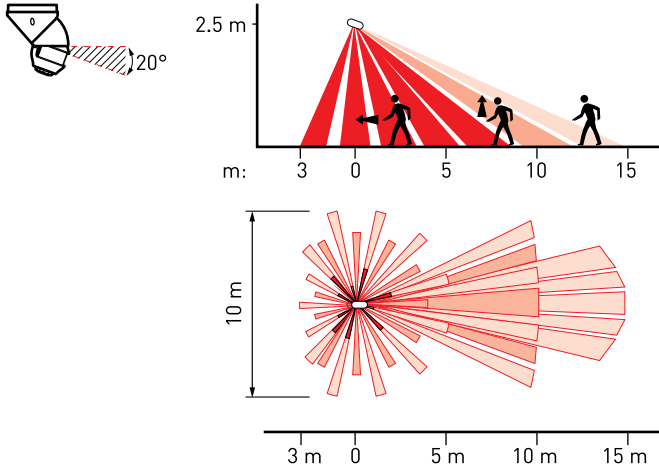


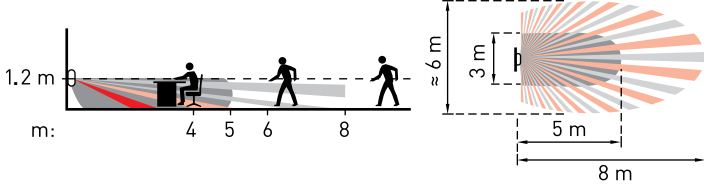
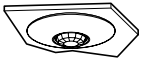

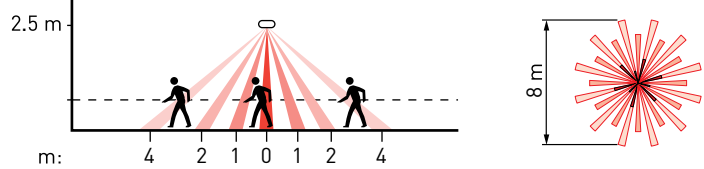
\*: Compatible with dimmable LED and compact fluorescent lamps

- 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
 5 740 37 5 740 79		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.

## TWO SOLUTIONS FOR ACTIVE BUILDING MANAGEMENT

### > View, control, be warned

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



### > Interact

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



0 490 04

For overall building management

Operates with:

- the metering offer: uses RS 485/IP converter Cat.No 0 046 89

- the BUS/KNX lighting offer, with KNX/IP converter Cat.No 0 035 43

Pack	Cat.Nos	Legrand Supervision software
		Supervision software which displays operating screens for digital buildings: Provides button for controlling Displays values measures and the status of connected products Alarm management console Timer programming Is installed permanently on a dedicated PC Integrated assisted mode facilitating execution of the project plus display screens: pre-programming of Legrand solutions (electrical consumption measurement, lighting management, emergency lighting, fire alarms) Expert mode for handling third-party equipment (HVAC) and for customizing display screens
1	0 490 00	Ready to view, up to 125 points
1	0 490 01	Ready to view, up to 250 points
1	0 490 02	Ready to view, up to 500 points
1	0 490 03	Ready to view, up to 1000 points
1	0 490 04	Ready to view, up to 2000 points
		<b>Building manager</b>
1	0 035 44	IP device designed for the automated control of IP device buildings requiring interoperability between the different systems connected or requiring Legrand solutions to be integrated in a BMS: - Legrand solutions: lighting management, emergency lighting, power metering - other solutions: HVAC, etc. Provides: - data collection from the various systems: IP KNX, IP MODBUS, IP BACNET, IP SCS - programming of scripts (with algorithm), alarms and data history - exchange of collected data between systems (example: display on digital screen of power circuit consumption measurements) - sending of email alerts Is installed in the VDI rack with dedicated patching to the various applications in the system Can be linked to Supervision software Cat.Nos 0 490 00/01/02/03/04 for an overview of the installation



For configuration in expert mode,  
**Contact your sales department**

# Building management

## active building management

### Active building management with Legrand or other systems



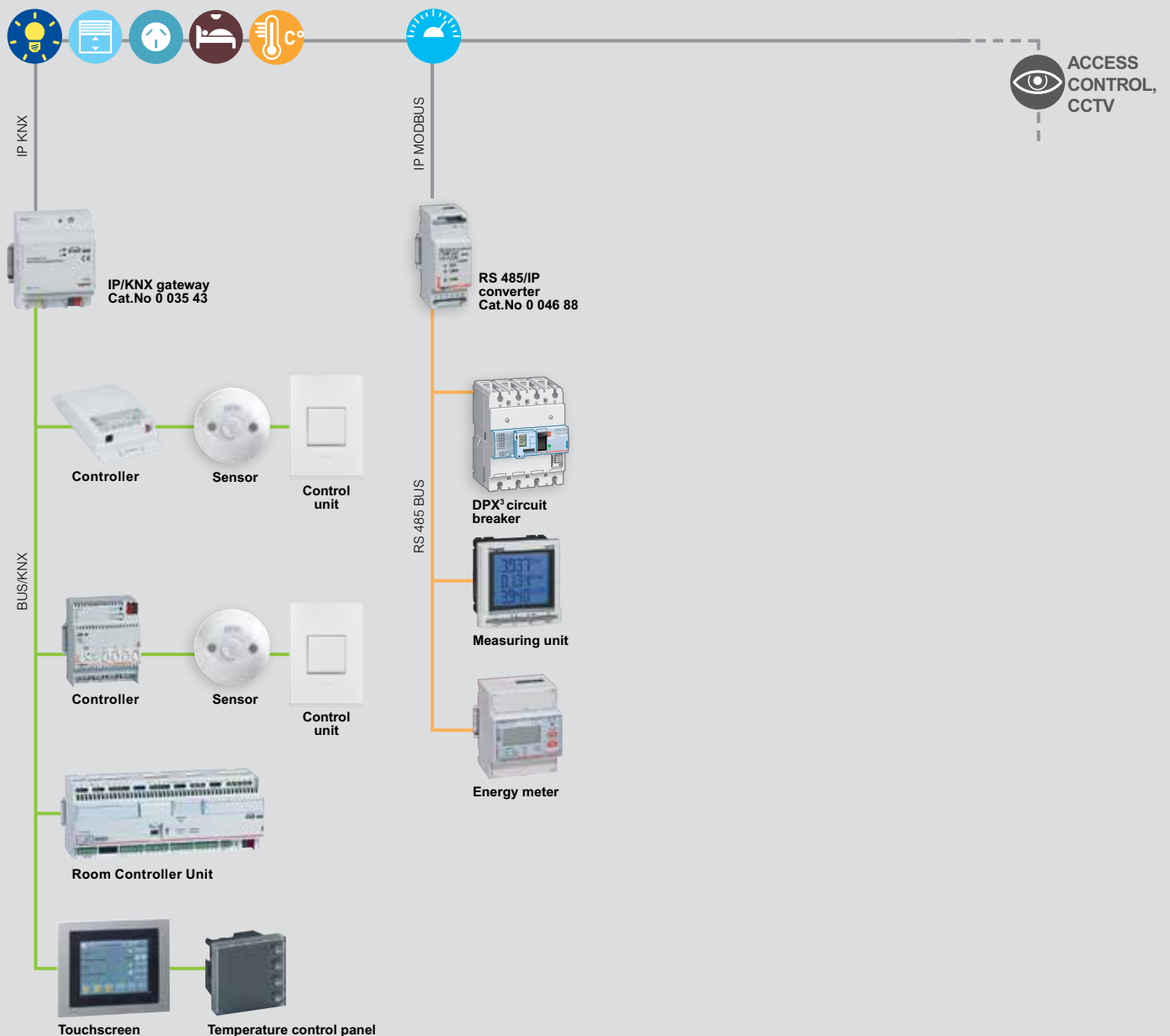
**1st example:** Active building management using Supervision software Cat.Nos 0 490 00/01/02/03/04 providing displays, analyses and alerts

**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: lig metering  
 - other solutions: HVAC, etc.

### Example: Lighting management + power metering

LIGHTING, SHUTTERS, POWER  
 SOCKETS, HEATING, VENTILATION,  
 AIR CONDITIONING (HVAC)

METERING



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