



BUS/KNX SOLUTIONS

ACTIVE CONTROL OF LIGHTING,
SHUTTERS, TEMPERATURE AND
SOCKET OUTLETS



CATALOGUE
PAGES
→ INSIDE

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

 **legrand**[®]



**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!

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: BUS/KNX solutions.



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.

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.

“Really clever, infinitely stylish!”

MANUAL CONTROL UNITS

One offer, six designs

Combining performance with aesthetics, control units are available in 7 decorative ranges.

A wide range of mechanisms for everyday comfort

There are several types of mechanism available for user convenience.

Functional diversity

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



ARTEOR



AXOLUTE



SIMPLE



CÉLIANE



MOSAIC



WITH LABEL HOLDER



TEMPERATURE CONTROL UNIT



LIVING NOW



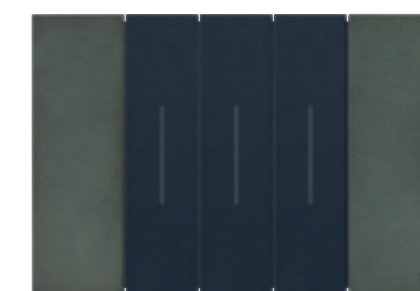
VALENA



LIVINGLIGHT



TOUCH



LIVING NOW

"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 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 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

Thermoregulation control

The temperature control panel is a flush mounted 1,6" backlit display with 4 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" 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, centralized 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 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)

Several 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

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 thinnest 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

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 18
360° PIR/US detection
Range 8 m
IP 20
Ceiling mounted

“
Perfect detection in any location!”

Smart detection

Thanks to the combination of ETS and the 0 882 40 smart 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.

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 DALI PROTOCOL,
4 OUTPUTS

FOR 1-10 V BALLASTS,
4 OUTPUTS

Quicker and easier cabling

Room Control Unit

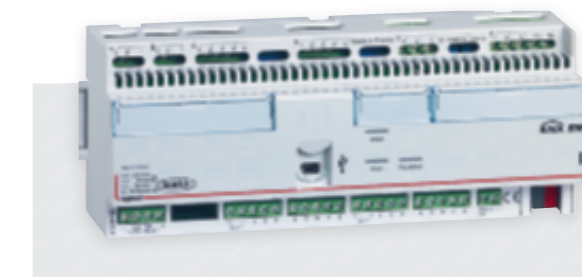
These modular controllers with integrated consumption measurement are fitted with output contacts for controlling:

- 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).

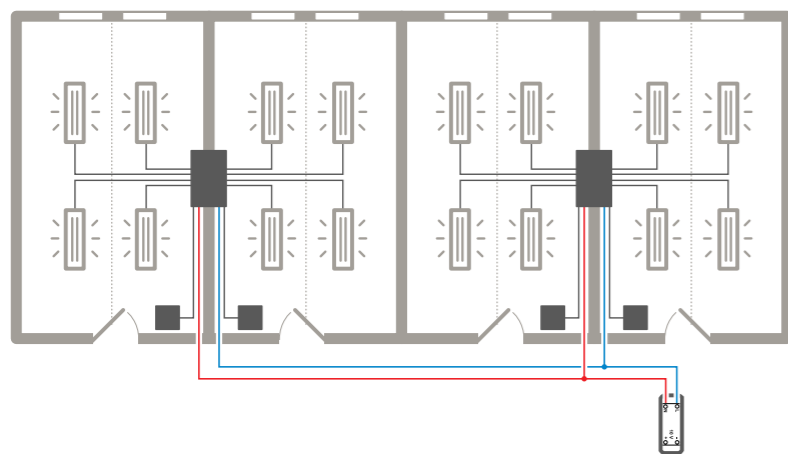
They also provide a wide range of functions: ON/OFF or dimming lighting control, DALI, roller shutter and ventilation control.

These DIN controllers offer the

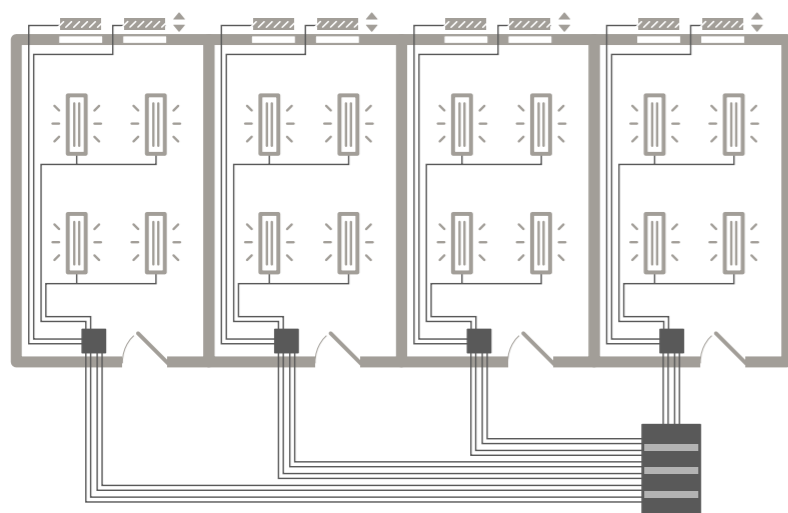


16 INPUTS
16 OUTPUTS
12 MODULES
(Available with 8 inputs,
10 outputs, 8 modules)

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).



DECENTRALIZED
SMART
INSTALLATION



CENTRALIZED
INSTALLATION

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.

Controllers

Modular controller ON/OFF

- Relay outputs to switch lighting loads with advanced operating mode.



MODULAR ON/OFF CONTROLLER

Modular controllers for Dimming

- DALI dimming management through DALI group control or individual DALI luminaire control.
- 1-10 V dimming management with switching operating mode.
- universal dimming manages all lights of lighting loads.



MODULAR DALI CONTROLLER

Modular controllers Multi-applications

- Relay outputs grouped through output channels configurable to manage different kind of equipments : lights, power sockets, shutters, HVAC.
- Independent input channel operating as universal interface with traditional wiring devices.



MODULAR CONTROLLER MULTI-FUNCTION

Modular controllers for HVAC

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



MODULAR FCU CONTROLLER

easy maintenance

KNX INFRASTRUCTURE PRODUCTS

Power supply

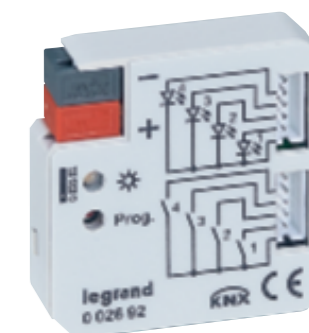
- 320 mA and 640 mA power supplies provide power for one BUS/KNX line. There is a built-in filter to prevent the short-circuit of messages from the BUS.
- The line coupler provides galvanic insulation between lines. This is necessary to extend the system over 64 participants.



KNX 640 mA POWER SUPPLY

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 distinguish between two levels of signal.



BUS/KNX INTERFACE

Communication & Control

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

- A BUS/KNX - IP router makes the links between the BUS/KNX infrastructure and the IP network remotely configure the installation with ETS or enable interconnection among different KNX networks via the IP infrastructure.
- A BUS/KNX coupler to connect BUS/KNX line with galvanic isolation.



KNX /IP ROUTER

Connection

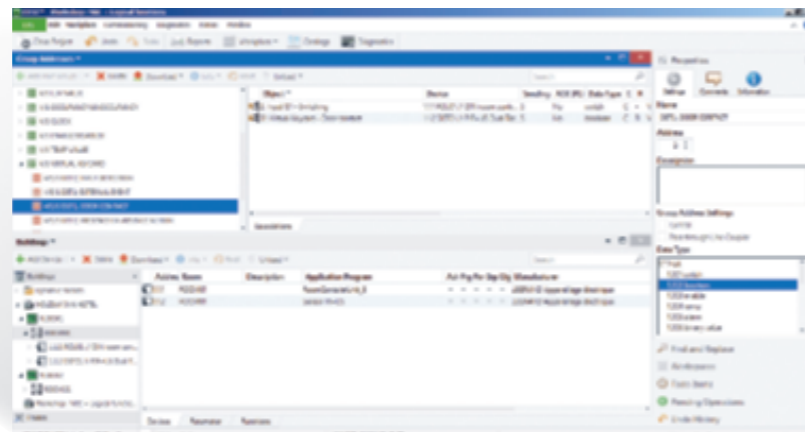
- BUS/KNX cables are available in a single pair version (red/black) or 2 pairs (red/black, yellow/white).
- The black/red BUS/KNX connector is used to extend, split the cable or simply connect the products.

FLEXIBLE, RELIABLE AND CONSISTENT CONFIGURATION



ETS SOLUTION

ETS is a manufacturer independent software that has to be used to configure and commission KNX devices, as well as plan, design, commission and diagnose entire KNX installations with KNX certified products.



LEGRAND SOLUTION

Configuration

As a complement to the ETS software, KNX detectors offer the possibility of local configuration. This mobile configuration tool 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.



Configuration gateway
Cat.No 0 882 40

SMART CONFIGURATION TOOL:
AN ASSET FOR COMMISSIONING
AND MAINTENANCE



LEGRAND CLOSE UP APP

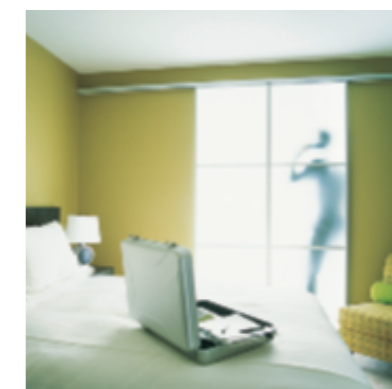
LEGRAND WILL ASSIST YOU

APPLICATION EXAMPLES

TRAINING

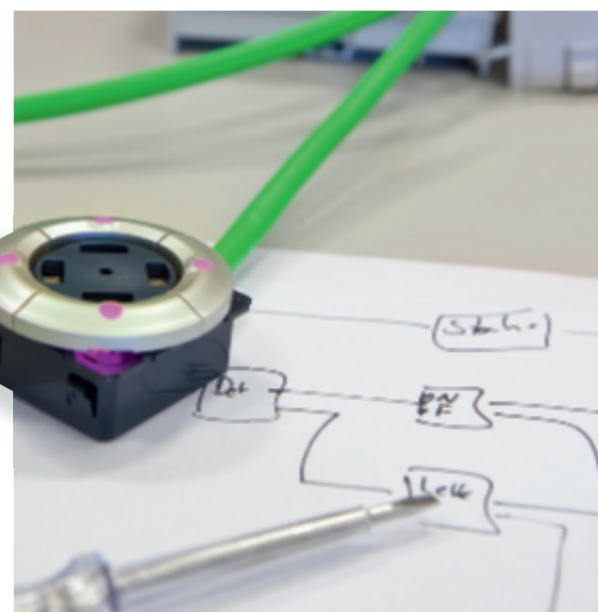
Legrand offers installers, operators and design offices dedicated training, allowing them to increase their overall building management expertise.

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



Dedicated
“hotel”
solution

20 **Guest room**



Dedicated
“commercial
sector
buildings”
solutions

22 **Open space**

24 **Meeting room**

26 **Reception area**

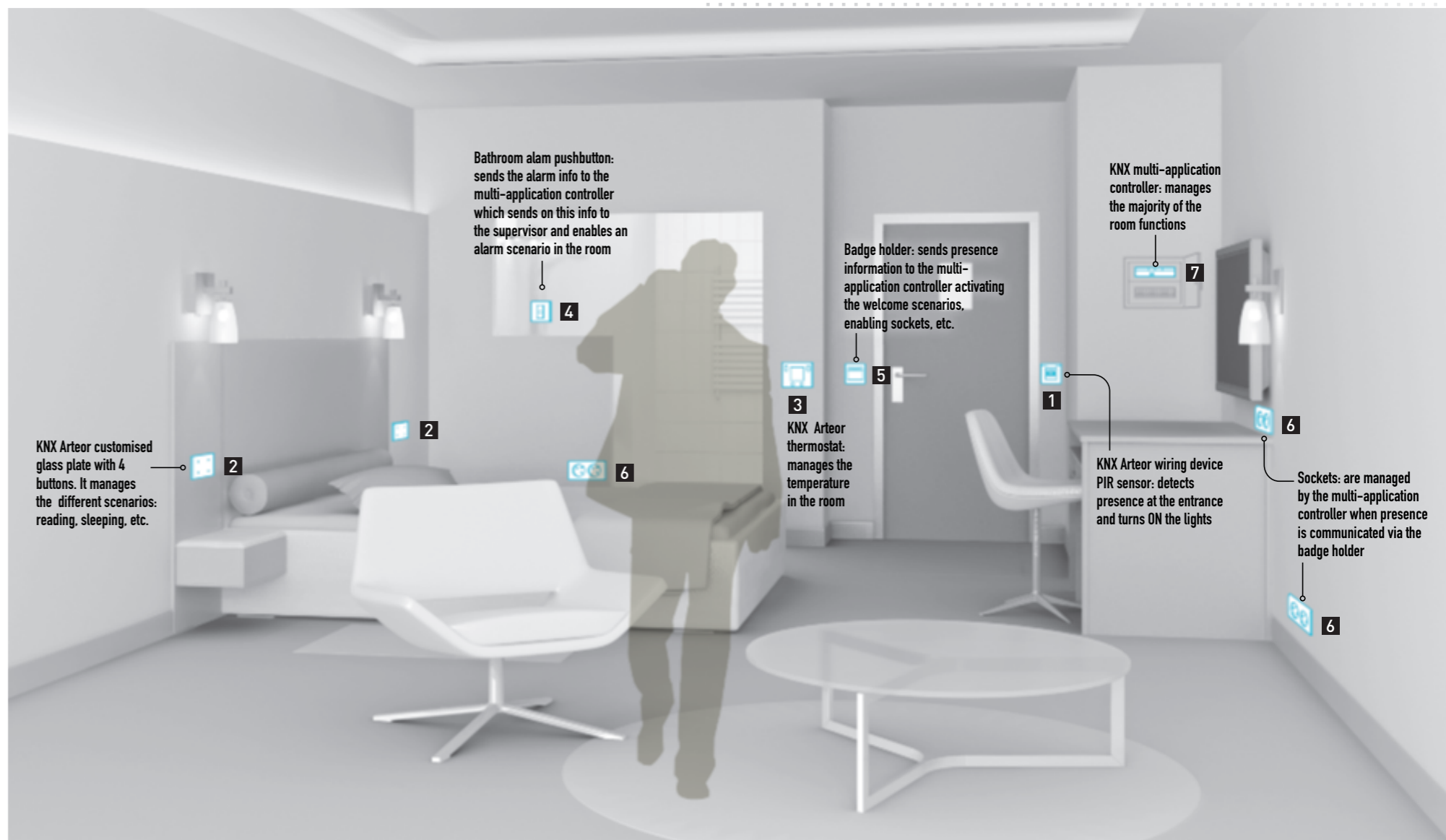
28 **Classroom**



Hotel guest room

- Presence detection
- Temperature management
- Socket management
- Scenarios

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



KNX/IP gateway

Cat.No	Qty
0 035 45	1

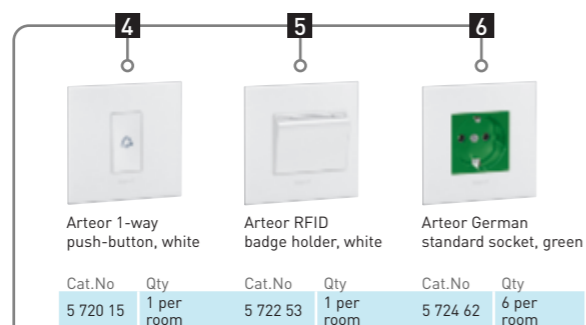
> page 35



KNX 640 mA power supply

Cat.No	Qty
0 035 07	1 per KNX line

> page 35



TRADITIONAL CABLING



KNX Multi-application controller

Cat.No	Qty
0 484 22	1 per room

> page 34

BUS/KNX



KNX FCU controller

Cat.No	Qty
0 026 97	1 per room

> page 32



KNX Arteur PIR wiring device sensor

Cat.No	Qty
5 740 37	1 per room

> page 33



KNX Arteur 4-button glass plate, white

Cat.No	Qty
5 735 04	2 per room

> page 30



KNX Temperature control panel

Cat.No	Qty
0 674 64	1 per room

> page 32

■ Common solution for several areas

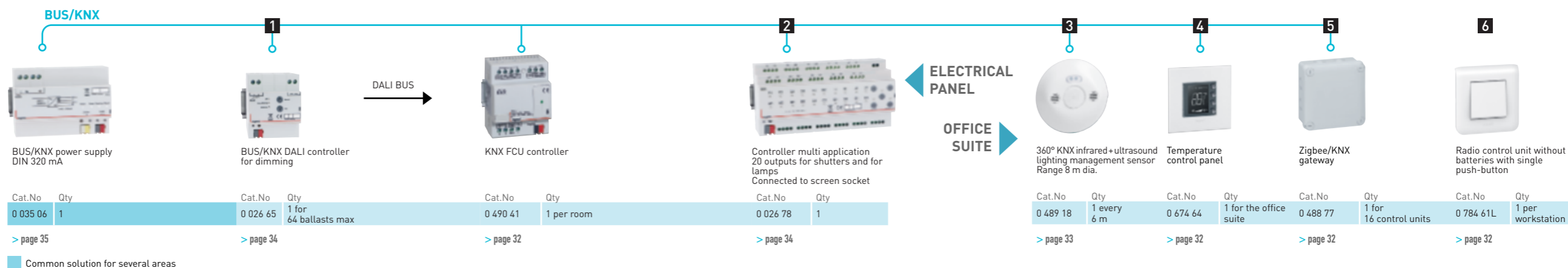
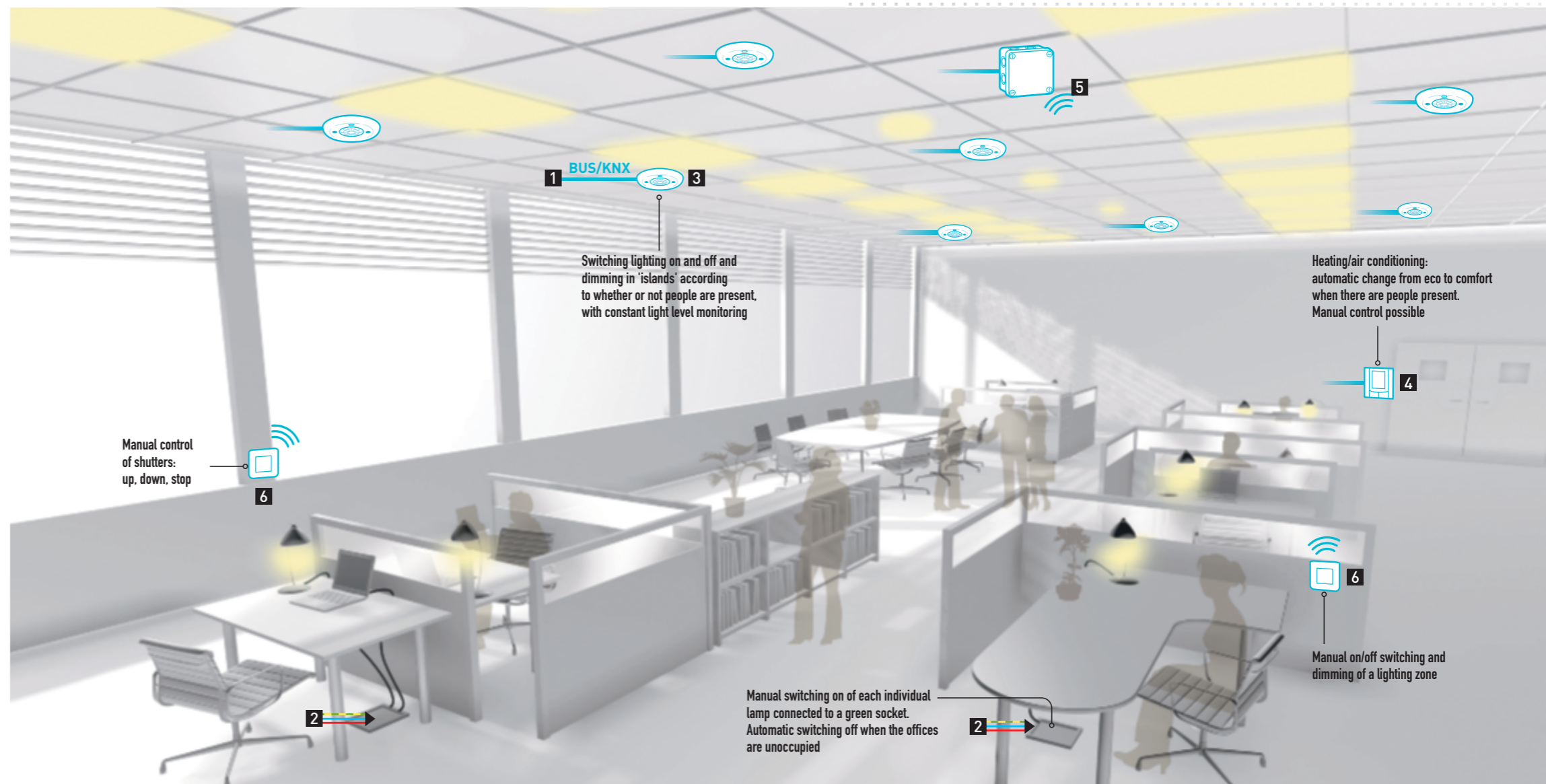


Open space

- 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.





Meeting room

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

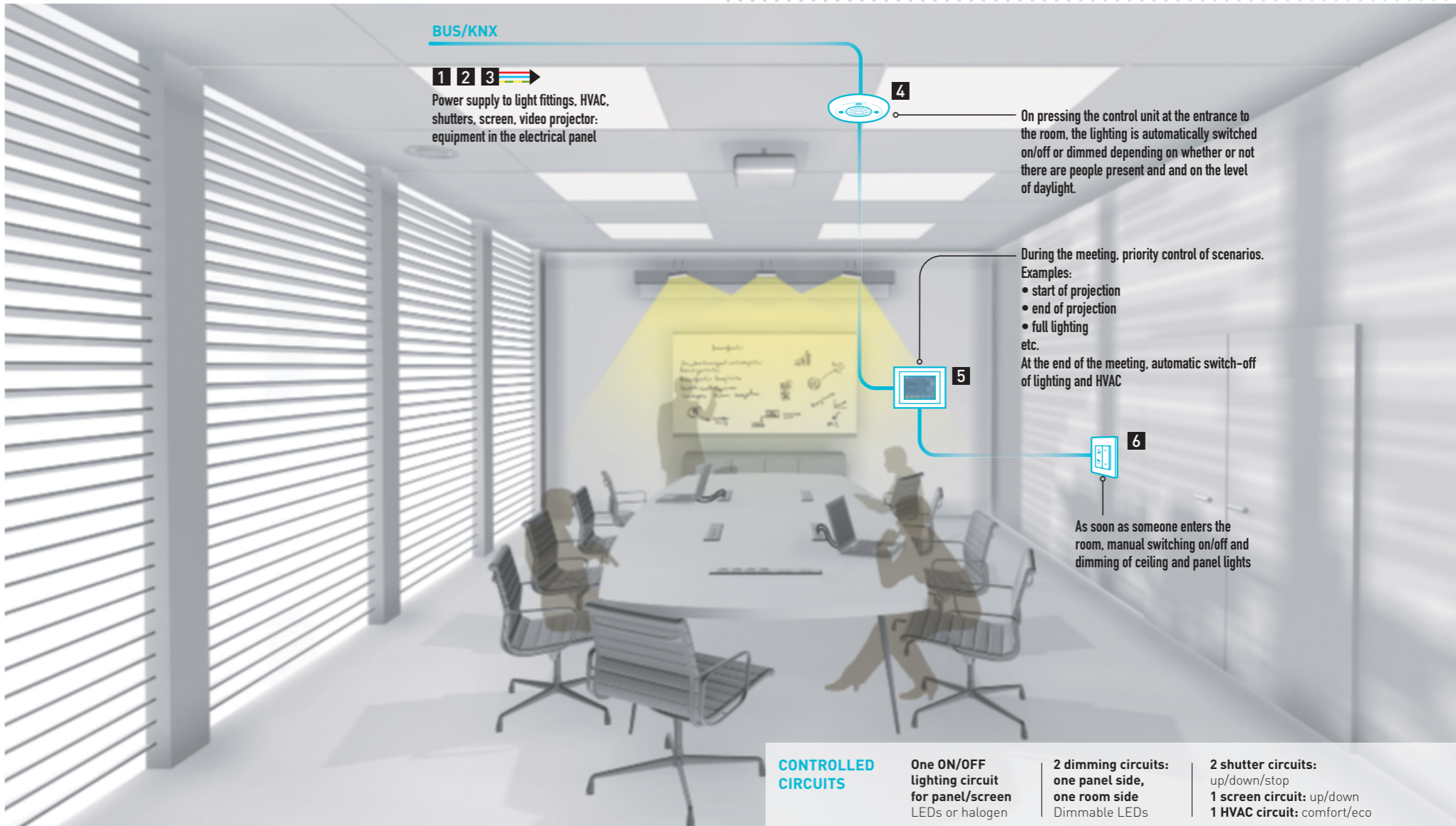
In a meeting room, you need to be able to control the lighting but also the shutters, screen, ventilation, etc. individually or via programmed scenarios.



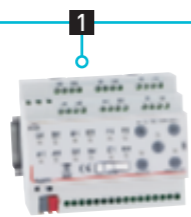
BUS/KNX - IP gateway
Cat.No Qty
0 035 45 1
> page 35



BUS/KNX power supply
Cat.No Qty
0 035 07 1 per KNX line
> page 35



BUS/KNX



BUS/KNX controller multi-applications for lighting ON/OFF control and shutters control
Cat.No Qty
0 026 74 1 for 4 circuits
> page 34



BUS/KNX universal dimming controller
Cat.No Qty
0 026 54 1 for 2 circuits
> page 34

ELECTRICAL PANEL

OFFICE SUITE



BUS/KNX lighting management sensor 360° infrared + ultrasound Range 8 m
Cat.No Qty
0 489 18 1 every 6 m
> page 33



Touchscreen control
Cat.No Qty
0 488 84 1 per room
> page 31



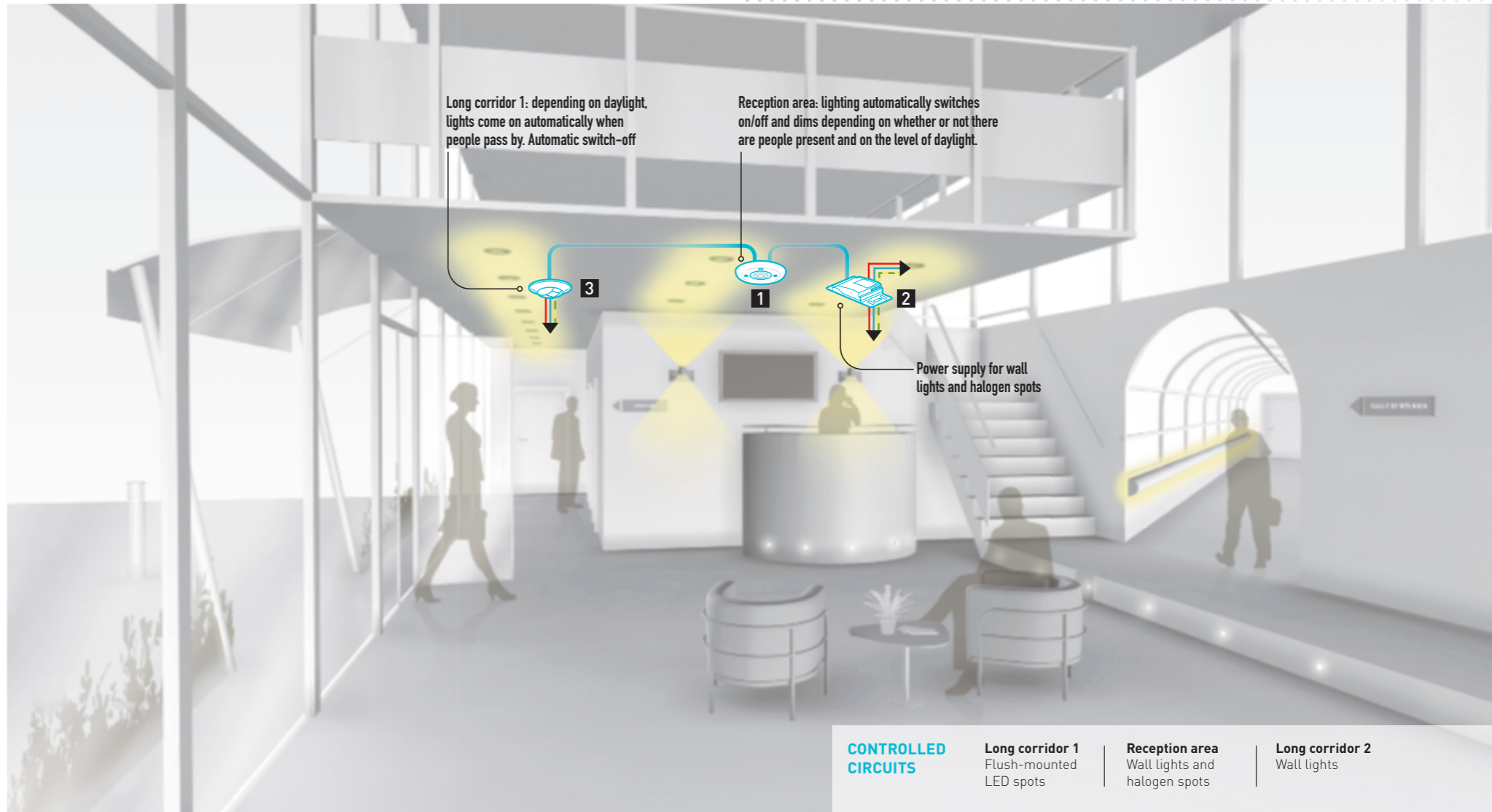
Control for 2 ON/OFF and dimming lighting circuits
Cat.No Qty
0 675 71 1 per door
> page 30

Common solution for several areas

Reception area

- 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.



BUS/KNX - IP gateway
Cat.No Qty
0 035 45 1
> page 35

BUS/KNX power supply
Cat.No Qty
0 035 07 1 per KNX line
> page 35

BUS/KNX

1	2	3	4
BUS/KNX lighting management sensor 360° infrared + ultrasound Range 8 m	BUS/KNX controller in suspended ceiling for dimming DALI lamps	BUS/KNX lighting management sensor 2 x 180° for long corridors Range 2 x 12 m	ON/OFF or dimming 1-10V BUS/KNX controller in suspended ceiling
Cat.No Qty 0 489 18 1 every 6 m	Cat.No Qty 0 488 88 1 for 2 circuits	Cat.No Qty 0 489 19 1 every 20 m	Cat.No Qty 0 488 87 1 for 4 circuits
> page 33	> page 34	> page 33	> page 34

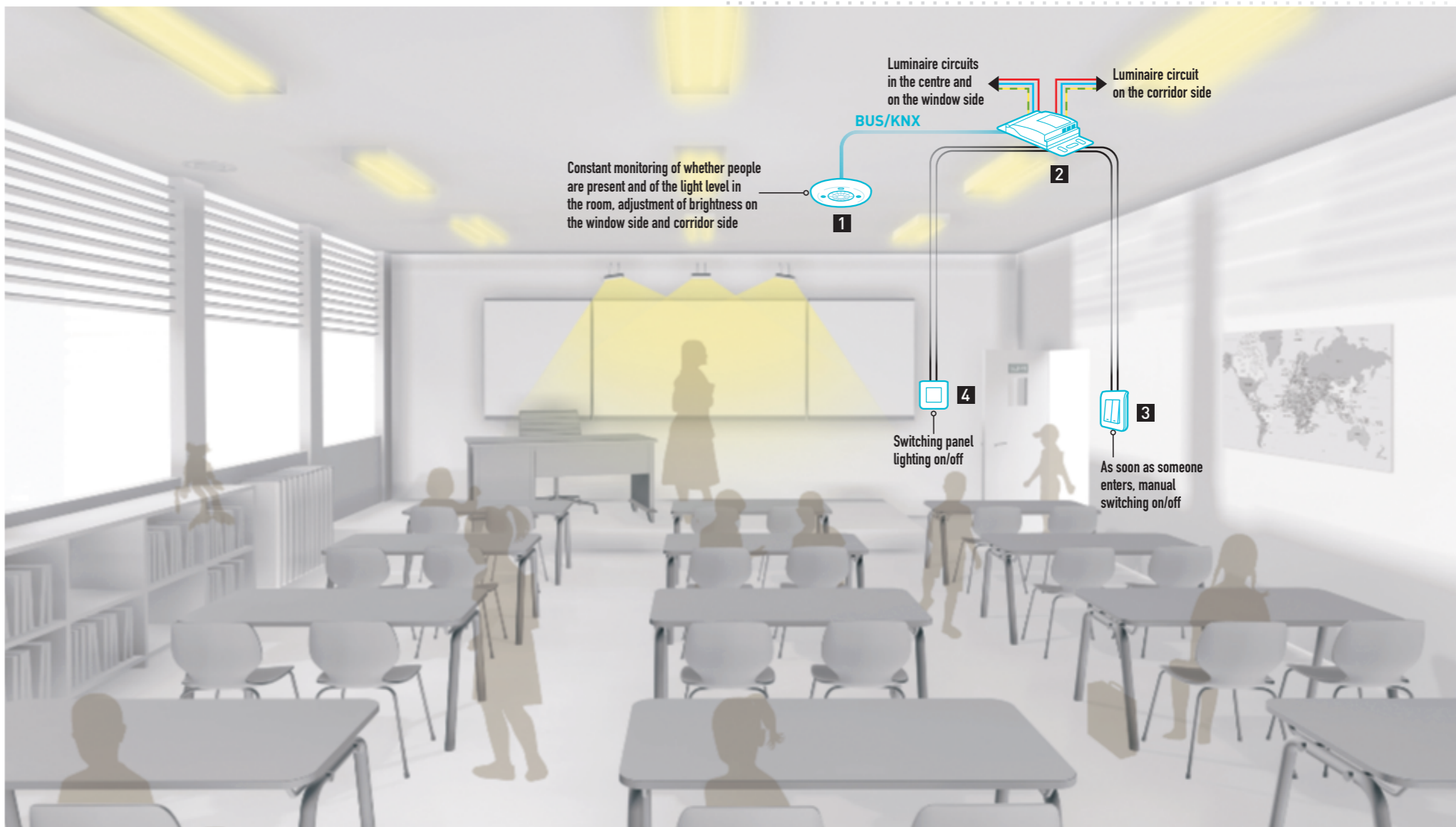
Common solution for several areas

Classroom



- 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.



BUS/KNX - IP gateway

Cat.No	Qty
0 035 45	1

> page 35

BUS/KNX power supply

Cat.No	Qty
0 035 07	1 for KNX line

> page 35

BUS/KNX



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

2 BUS/KNX DALI controller in suspended ceiling for dimming

3 Control for 2 on/off and dimming lighting circuits

4 Control for panel lighting

Cat.No	Qty	Cat.No	Qty	Cat.No	Qty	Cat.No	Qty
0 489 18	1 every 6 m	0 488 88	1 for 4 circuits	0 784 96	1 per door	0 784 89	1 per panel

Common solution for several areas

Mosaic™, Céliane™, Arteur™, Valena™

BUS/KNX manual control units



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

Pack	Cat.Nos	Mosaic wired control units
1	0 784 89	Used to control lighting (ON/OFF, dimming, scenario, forcing), roller shutters (up, down, stop), awnings, and other receivers. Fitted with programmable RGB LEDs (12 colours available) for displaying load status and system status feedback (normal, forced, override, day/night pilot light, etc.) and alarms. For use in combination with Mosaic plates and Batibox support frames. 1 button - 1 actuation point ○ White
1	0 784 95	1 button - 2 actuation points ○ White
1	0 784 94	2 buttons - 2 actuation points ○ White
1	0 784 96	2 buttons - 4 actuation points ○ White
1	0 784 91	4 buttons - 4 actuation points Supplied with label holder for button identification ○ White

Pack	Cat.Nos	Céliane wired control units
1	0 675 71	Used to control lighting (ON/OFF, dimming, scenario, forcing), roller shutters (up, down, stop), awnings, and other receivers. Fitted with programmable RGB LEDs (12 colours available) for displaying load status and system status feedback (normal, forced, override, day/night pilot light, etc.) and alarms. 4 channels control unit without label display For use with cover plates, ring cover, Céliane plate, and Batibox support frame
1	0 675 70	4 buttons - 4 actuation points Fitted with white or titanium key cover. Supplied with label holder for button identification. For use with Céliane plate and Batibox support frame. ○ White ● Titanium

Pack	Cat.Nos	Céliane wired control units (continued)
1	0 675 72	4 buttons touch control units Supplied complete with white or black touch plate. ○ Kaolin glass ● Graphite glass
1	0 675 74	
1	0 675 71	Arteur 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 Arteur plates and Batibox support frames. 4 channels control unit without label display 4 actuation points. To be equipped with key covers for control mechanism.
1	5 742 03	Square version 4 actuation points - With label holder ○ White
1	5 744 04	● Magnesium
1	5 735 02	Round version 4 actuation points - With label holder ○ White
1	5 735 03	● Magnesium
1	5 735 04	4-buttons touch control units Supplied complete with white or black touch plates. To be fitted with Batibox support frames. ○ White - for BS flush-mounting boxes
1	5 735 05	● Black - for BS flush-mounting boxes
1	5 735 12	6-buttons touch control units Supplied complete with white or black touch plates. ○ White
1	5 735 13	● Black

Pack	Cat.Nos	Valena wired control units
1	0 675 71	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 Valena plates and Batibox support frames. 4 channels control unit without label display 4 actuation points. To be equipped with key covers for control mechanism.

Axolute, Livinglight, Living Now

BUS/KNX manual control units



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

Pack	Cat.Nos	Livinglight wired control units
1	LN4651KNX	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 To be fitted with Livinglight cover plate, plate and support frame
1	N4680KNX	4 channels control unit with label display Supplied with label holder for button identification. To be fitted with Livinglight plate and support frame. ○ White
1	NT4680KNX	● Tech
1	L4680KNX	● Anthracite

Pack	Cat.Nos	Axolute wired control units
1	H4651KNX	Control (ON/OFF, dimming, scenario, forcing), roller shutters (up, down, stop), awnings, and other clients. Fitted with programmable RGB LEDs (12 colours available) for displaying load status and system status feedback (normal, forced, override, day/night pilot light, etc.) and alarms. 4 channels control unit without label display To be fitted with Axolute cover plate, plate and support frame
1	H4651KNX	4 channels control unit with label display Supplied with label holder for button identification. To be fitted with Axolute plate and support frame. ● Tech
1	HC4680KNX	● Anthracite
1	HS4680KNX	○ White
1	HD4680KNX	
1	HC4657M3KNX	6-buttons touch control unit Supplied with fitted touch plate. Requires Axolute support frame. ○ White
1	HS4657M3KNX	● Black
1	HD4657M3KNX	○ Transparent glass

Pack	Cat.Nos	Living Now wired control units
1	K4651M2KNX	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. 2 channels control unit - 4 buttons To be fitted with Living Now cover plate, plate and support frame
1	K4651M3KNX	3 channels control unit - 6 buttons To be fitted with Living Now cover plate, plate and support frame
1	0 488 84	Touch screen 5.7" control unit Automation device allowing centralized management operated from a single control unit. Able to manage up to 110 KNX functions for individual control with status display or scene control. Allows routine automation like time scheduling, logical operation, graph monitoring, alarm console. Delivered with cover plate, support frame and flush-mounting box

Radio extension

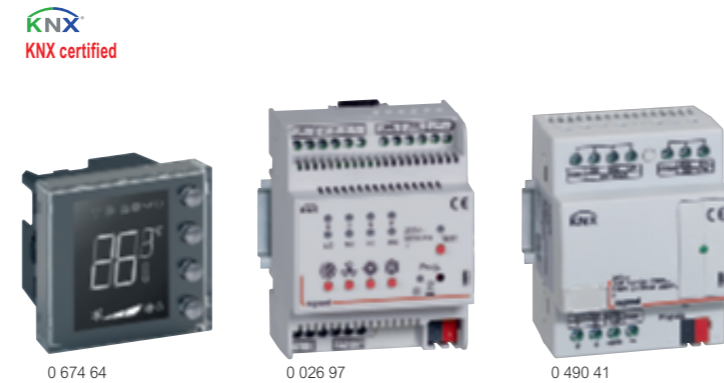
BUS/KNX



Pack	Cat.Nos	Zigbee/KNX wireless extension
1	0 784 61	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 Mosaic 1 button - 2 actuation points ○ White
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

Thermoregulation

BUS/KNX



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	Flush mounted 1.6" backlight display with 4 push-buttons and embedded a temperature probe Used to manage different types of heating/cooling system (FCU, heating/cooling valve, fan, electric load, ...) in combination through KNX with dedicated HVAC controller (Cat.Nos 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
1	0 026 97	DIN FCU controller ON/OFF Actuator with internal thermoregulation to control FCU or thermal valves In combination with the temperature control panel, can be used to manage ambient temperature according to end-user requests: operating mode, temperature adjustment - 2 folds valve ON/OFF control (2 A - 75~256 VAC) - 1 fold fan control - 3 speeds (6 A - 230 VAC) - 1 binary input check - window contact (9~265 VAC/DC) - Operating temperature -5 to 45°C - Operating voltage 230 VAC +/- 10% (50/60 Hz) 4 DIN modules 17.5 mm
1	0 490 41	DIN FCU controller 0-10 V Actuator with internal thermoregulation to control FCU, fan, thermal valves, electric load In combination with the temperature control panel, can be used to manage ambient temperature according to end-user requests: operating mode, temperature adjustment - 2 outputs 0-10 VDC to control thermal valves (5 mA) - 5 outputs (relays) to control fan (3 speeds) and/or thermal valves (10 A - 230 VAC) - 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 24 VAC Cat.No 4 130 95

Sensors

BUS/KNX



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	Special motion sensor for small premises and bathrooms (continued)
1	0 489 19	Ceiling mounted Double passive infrared detection 360°, lateral range 2 x 12 m IP 20 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	Axolute 180° passive infrared detection, range 8 m IP 41 For use with: - an Axolute plate - an Axolute support frame
1	0 489 21	Special motion sensor for outdoor car parks and cellars Wall or ceiling mounted - surface mounting Passive infrared detection with 270° adjustable head, range 20 m 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 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	0 784 93	Special motion sensors for small premises and bathrooms Wall mounted - flush or surface mounting Recommended fixing height: 1.2 m Consumption 0.2 W Optimum distance between two sensors: 6 m Mosaic White 180° passive infrared detection, range 8 m IP 41 For use with Mosaic plate and Batibox support frame 2 modules	1 N4658KNX White 1 L4658KNX Anthracite 1 NT4658KNX Tech Special presence sensors for work areas Suitable for meeting rooms, classrooms, open areas, etc.
1	0 675 77	Céliane 180° passive infrared detection, range 8 m IP 41 For use with - cover plate Cat.No 0 682 99 (white) or 0 685 99 (titanium) - ring cover Cat.No 0 680 00 (white) or 0 683 00 (titanium) - a Céliane plate - a Batibox support frame	1 0 489 18 Ceiling mounted 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	0 675 77	Arteor 180° passive infrared detection, range 8 m IP 41 - Céliane Arteor plate - a Batibox support frame	1 0 489 22 Ceiling mounted 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	0 675 77	Valena 180° passive infrared detection, range 8 m IP 41 For use with - Valena Life cover plate Cat.No 7 548 84 (white), 7 548 93 (Ivory), 7 548 94 (Aluminium) - Valena Allure cover plate Cat. No 7 549 03 (white), 7 549 04 (Ivory), 7 549 13 (Aluminium) - a Valena plate - a Batibox support frame	

Controllers

false ceiling and modular BUS/KNX



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

Pack	Cat.Nos	False ceiling controllers for dimming
1	0 488 88	For DALI control Each output can be controlled by a sensor and/or BUS/KNX control unit 4 outputs 32 ballasts maximum per output
1	0 488 87	For 1-10V control 4 outputs 1000 VA maximum per output Also control 4 ON/OFF circuits
Modular controllers for dimming		
1	0 026 65	Each output can be controlled by a sensor and/or BUS/KNX control unit For DALI control 1 output DALI bus (64 DALI ballasts max) to control up to 16 DALI groups and up to 64 DALI scenes 4 DIN modules
1	0 026 99	1 output DALI bus (64 DALI ballasts max) to control individually up to 64 DALI luminaires and up to 16 DALI scenes 4 DIN modules
1	0 026 68	For 1-10V control 10 outputs 1-10 V also controlling 10 ON/OFF circuits (16 A max) 10 DIN modules
1	0 026 54	For LED and all others LV and ELV loads 2 outputs 2 x 300 W/VA maximum per output 4 DIN modules
1	0 026 86	For LV and ELV loads only 2 outputs 2 x 500 VA maximum per output
1	0 026 87	8 DIN modules 4 outputs 4 x 500 VA maximum per output 12 DIN modules

Pack	Cat.Nos	Modular ON/OFF controller
1	0 026 80	Each output can be controlled by a sensor and/or BUS/KNX control unit 4 x 16 A outputs 4 DIN modules
Modular multi-applications ON/OFF controllers		
1	0 026 72	Each output can be controlled by a sensor and/or BUS/KNX control unit Multi-applications controllers with independent input channels and outputs configurable to control lighting loads, power sockets, roller shutters, and HVAC equipment 8 x 16 A outputs 6 DIN modules
1	0 026 73	8 x 16 A outputs - 8 inputs 6 DIN modules
1	0 026 74	12 x 16 A outputs 6 DIN modules
1	0 026 76	16 x 16 A outputs 10 DIN modules
1	0 026 78	20 x 16 A outputs 10 DIN modules
1	0 026 79	20 x 16 A outputs - 18 inputs 10 DIN modules
Room Controller Unit		
1	0 484 18	Power modules equipped with output contacts for controlling: - different types of ON/OFF load (lighting, roller shutters, contactors, motors, etc.) - a DALI dimming output for 64 ballasts max. 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 8 inputs - 10 outputs 8 DIN modules
1	0 484 22	16 inputs - 16 outputs 12 DIN modules

Infrastructure products

BUS/KNX



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

Pack	Cat.Nos	BUS/KNX interface - voltage contact
1	0 026 93	Connects voltage free contacts devices (switches, push-buttons, alarms, etc.) to the BUS/KNX Modular 4 inputs 0 to 265 AC/DC powered 2 DIN modules
1	0 026 92	Flush mounting For installation in a flush-mounting box 4 inputs - 4 outputs
1	0 035 46	Line coupler Provides galvanic isolation between lines Necessary in an installation where there are more than 64 KNX participants 2 DIN modules
1	0 035 45	IP/KNX router Can acts as main line or backbone coupler Links different KNX networks to each other via the IP infrastructure 2 DIN modules

Pack	Cat.Nos	Modular power supplies
1	0 035 06	Powers one BUS/KNX line Integrated filter to prevent the short-circuit of BUS messages Voltage 230 V~ - 30 V= With additional 30 V unfiltered output 7 DIN modules 320 mA
1	0 035 07	640 mA
BUS/KNX connector		
1	0 488 79	Black and red Supplied in boxes of 50
BUS/KNX cables		
1	0 492 91	Length 500 m 0.8 mm dia. quad Isolation 4000 V 1 pair: red/black
1	0 492 92	2 pairs: red/black and yellow/white

Controllers

BUS/KNX load tables

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


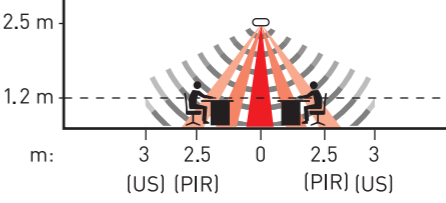

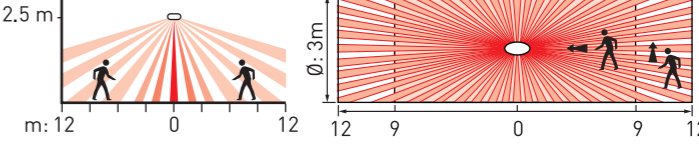

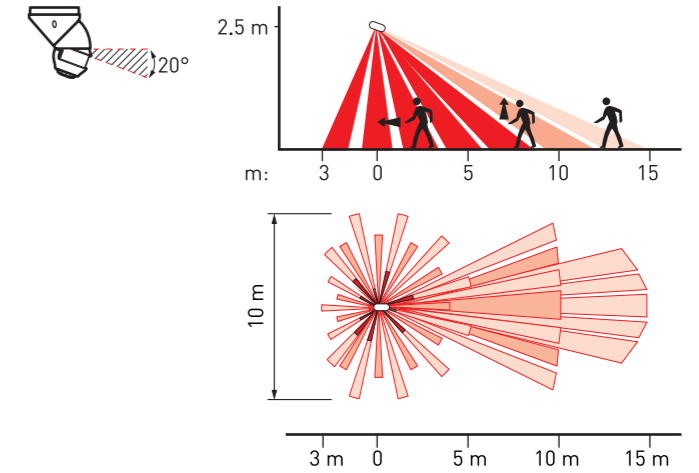

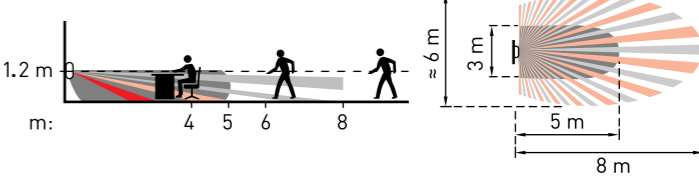

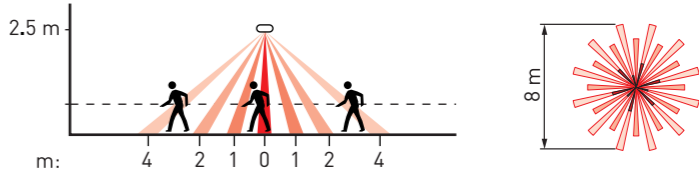
Cat.Nos	Outputs	Halogen lamp	ELV halogen lamp with ferromagnetic or electronic transformer	Fluorescent tube	LED and compact fluorescent lamp	Fluorescent lamp with 1-10 V ballast	DALI	Motors
False ceiling controllers								
0 488 88	4	-	-	-	-	-	4 x 32 ballasts	-
0 488 87	4	4 x 800 W	4 x 800 VA	4 x 1000 VA	4 x 1000 VA	4 x 1000 VA	-	-
0 026 65	1	-	-	-	-	-	64 ballasts (group control only)	-
0 026 99	1	-	-	-	-	-	64 ballasts (individual control)	-
0 026 68	10	-	-	-	-	4000 VA	-	-
0 026 54	2	2 x 300 W	2 x 200 VA	2 x 300 VA	2 x 75 W	-	-	-
0 026 86	2	2 x 500 W	2 x 500 VA	-	-	-	-	-
0 026 87	4	2 x 500 W	4 x 500 W	-	-	-	-	-
0 026 80	4	2 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 72	8	8 x 4000 VA	8 x 1800 VA	8 x 2400 VA	8 x 400 VA	-	-	8 x 1000 VA
0 026 73	8	8 x 4000 VA	8 x 1800 VA	8 x 2400 VA	8 x 400 VA	-	-	8 x 1000 VA
0 026 74	12	12 x 4000 VA	12 x 1800 VA	12 x 2400 VA	12 x 400 VA	-	-	12 x 1000 VA
0 026 76	16	16 x 4000 VA	16 x 1800 VA	16 x 2400 VA	16 x 400 VA	-	-	16 x 1000 VA
0 026 78	20	20 x 4000 VA	20 x 1800 VA	20 x 2400 VA	20 x 400 VA	-	-	20 x 1000 VA
0 026 79	20	20 x 4000 VA	20 x 1800 VA	20 x 2400 VA	20 x 400 VA	-	-	20 x 1000 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

*: 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 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.

Catalogue number index

Cat.Nos	Page N°	Pack	Cat.Nos	Page N°	Pack	Cat.Nos	Page N°	Pack	Cat.Nos	Page N°	Pack
0 026 00			0 488 79	35	1	0 784 93	33	1	HD4657M3KNX	31	1
0 026 54	34	1	84	31	1	94	30	1	HD4658KNX	33	1
65	-	1	87	34	1	95	-	1	HD4680KNX	31	1
68	-	1	88	-	1	96	-	1	HS4657M3KNX	-	1
72	-	1	0 489 00			5 735 00			HS4658KNX	33	1
73	-	1	0 489 18	33	1	5 735 02	30	1	HS4680KNX	31	1
74	-	1	19	-	1	03	-	1	K4651M2KNX	-	1
76	-	1	21	-	1	04	-	1	K4651M3KNX	-	1
78	-	1	22	-	1	05	-	1	L4658KNX	33	1
79	-	1	0 490 00			12	-	1	L4680KNX	31	1
80	-	1	0 490 41	32	1	13	-	1	LN4651KNX	-	1
86	-	1	0 492 00			5 740 00			LN4691KNX	32	1
87	-	1	0 492 91	35	1	5 740 37	33	1	N4658KNX	33	1
92	35	1	92	-	1	79	-	1	N4680KNX	31	1
93	-	1	0 674 00			5 742 00			NT4658KNX	33	1
97	32	1	0 674 64	32	1	5 742 03	30	1	NT4680KNX	31	1
99	34	1	0 675 00			5 744 00					
0 035 00			0 675 70	30	1	5 744 04	30	1			
0 035 06	35	1	71	-	1	7 521 00					
07	-	1	72	-	1	7 521 47	32	1			
45	-	1	74	-	1	7 527 00					
46	-	1	77	33	1	7 527 47	32	1			
0 484 00			79	30	1	H4651KNX	31	1			
0 484 18	34	1	0 784 00			H4691KNX	32	1			
22	-	1	0 784 61	32	1	HC4657M3KNX	31	1			
0 488 00			89	30	1	HC4658KNX	33	1			
0 488 77	32	1	91	-	1	HC4680KNX	31	1			



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