ESYLUX

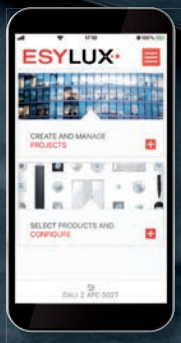
NEW! DALI-2 PUSH BUTTONS FOR SIMPLE OVERRIDE

EFFICIENT AND FUTURE-PROOF LIGHT CONTROL. ESY!

DALI-2

CROSS-ROOM AUTOMATION EASY TO IMPLEMENT:

- APC presence detectors with integrated control unit
- BMS presence detectors as input devices
- Plus single-room solutions with DALI Broadcast



ESY CONTROL

ESY-APP!
Making project configuration, mobile management and documentation easy.

PERFORMANCE FOR SIMPLICITY

ESYLUX GmbH | sales@esylux.com | www.esylux.com

DALI-2 TAKES YOU TO THE FUTURE

ONE STANDARD FOR ALL OPTIONS

If you're looking to install an intelligent light control system in offices, educational institutions and health facilities, it's now impossible to ignore the DALI international industry standard.

With the ability to address and control lights and lighting groups individually, this digital communication protocol offers users an unparalleled level of flexibility. Its planning and installation functions are also much less complicated than those of conventional lighting systems and users can update the configuration via software without having to update any hardware.

CROSS-MANUFACTURER INTEROPERABILITY

The development of the standard into DALI-2 ensures it will continue to have a secure future. The functionality of the standard has been improved even further, ensuring interoperability between devices from different manufacturers. This allows project managers to create a solution using the very best devices.

DALI-2 presence detectors from ESYLUX are the number one choice for control. These detectors increase quality of life and energy efficiency in any workplace, offer the largest variety of functions in a compact design and enable easy configuration via the ESY-App!

WHY YOU WILL BENEFIT FROM DALI-2

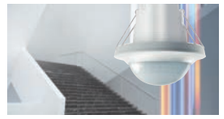
- Internationally established, open industry standard
- Cross-manufacturer interoperability
- Individual addressing and control:
  - Up to 64 operating devices, 64 control units and input devices
  - Up to 16 groups
  - Up to 16 scenes
- Reconfiguration via software without the need to update any hardware
- Bi-directional communication with status feedback
- Robust bus communication with collision detection
- Can be used as a sub-system (e.g. with KNX)
- Optimal dimming of LED lighting
- Fewer materials and less effort needed for installation:
  - Only one cable for all devices (incl. control wires and power supply)
  - Existing wiring can often be re-used
  - Cables can be arranged in line, star or tree topologies
  - Polarity-free wiring
  - Groups are established via software without any wiring requirements

DALI-2 CONCEPT & FUNCTIONS

CROSS-ROOM DECENTRALISED CONTROL

Benefits of decentralised control from ESYLUX:

- Lower system costs as a cost-effective BMS presence detector can be easily integrated
- No switch cabinet components or need to modify the switch cabinet components
- Easy commissioning and configuration via smartphone (no need for a tablet, PC or special software)
- Adapt to changing room situations without any additional hardware thanks to flexible group switching
- Up to 90 % faster documentation as all project settings are automatically saved via the app



CENTRAL BUILDING CONTROL

SINGLE-ROOM CONTROL

CROSS-ROOM DECENTRALISED CONTROL

INTELLIGENT AND POWERFUL

THE DECENTRALISED DALI-2 SOLUTION FROM ESYLUX

OPTIMAL LIGHTING CONDITION WITH MAXIMUM ENERGY EFFICIENCY

Presence and light sensor technology from ESYLUX enables the best lighting conditions and energy-efficient implementation in every workplace. Depending on the variant used, this is achieved via:

- SymbiLogic technology for energy-efficient Human Centric Lighting (HCL)
- Presence and daylight dependent constant light control

CROSS-ROOM CONTROL OF UP TO 16 GROUPS

The APC presence detectors (APC: Application Controller) feature a built-in control unit and bus power supply for controlling up to 64 control gears in up to 16 lighting groups and offer numerous configuration options, including:

- Swarm function
- Flexible group switching for when room usage changes
- Light closed loop control with offset
- Orientation light

SIMPLE MANUAL OVERRIDE

Via 230V or DALI-2 push buttons the user can override the automation at any time according to his wishes:

- Up to 16 scenes for different situations
- Adjust the level of brightness as well as the light colour using SymbiLogic
- Adjust the set point for the level of brightness by manual dimming (automation is resumed)
- Individually configurable: DALI-2 detectors with push button inputs or separate DALI-2 push buttons with up to 8 single push buttons

ENERGY-EFFICIENT SWITCHING

The additional switching output of the APC detector enables conventional devices to be integrated and activated dependent on presence. For instances such as:

- Switching of HVAC, 230 V devices or conventional luminaires
- Switch-off of DALI control gears (standby switch-off)

CONTROL BASED ON THE DAY OF THE WEEK AND TIME OF THE DAY

As different levels of lighting are needed at different times, DALI-2 solutions from ESYLUX offer time-dependent control for:

- Different operating modes
- Afterglow and orientation light
- Night operation

SPECIAL FUNCTIONS

Rooms have different requirements depending on their usage. It is therefore useful that the following can be controlled via buttons:

- Central functions
- Alarm functions

EASY TO CONFIGURE VIA SMARTPHONE AND ESY-APP

CROSS-ROOM CONTROL

APC PRESENCE DETECTOR WITH BUILT-IN CONTROL UNIT

The APC presence detectors (APC: Application Controller) act as the intelligent switch cabinets in DALI-2 solutions from ESYLUX and use the full potential of the standard. These detectors combine a control unit, bus power supply, multi-sensor technology and push button input and enable autonomous, cross-room control of up to 16 groups without the need for a complex building automation system.

Furthermore, the components are bundled in a single housing, making planning and installation much easier. Several configurations are available, enabling numerous functions for comfort and energy efficiency.

COMPACT AND POWERFUL

- Built-in DALI control unit and DALI bus power supply (250 mA)
- Passive infrared presence detectors offer presence detection and light sensor technology
- Integrated switching output for HVAC devices or supplementary lighting (16 A relay, potential-free)
- Quick installation in suspended ceilings using a standard drill bit and without additional accessories (Ø 68 mm)
- Detection range of Ø 8, 24 and 32 m
- Bi-directional communication via built-in Bluetooth module
- Four inputs for conventional push buttons (non-floating):
  - Existing 230 V buttons can be used directly!
- Alternatively: DALI-2 push buttons from ESYLUX can be integrated via DALI bus
  - Available with up to 8 single push buttons

COMPACT APC30 HCL	COMPACT APC20	COMPACT APC10
Available from Q4 2024		

UP TO 16 LIGHTING GROUPS

- Individual control of up to 64 control gears in up to 16 groups
- Fully automatic, semi-automatic, manual override (16 scenes)
- Presence and daylight dependent constant light control
- Group control with offset possible
- Manual adjustment of the set point of the level of brightness
- Basic lighting formed of afterglow and orientation light
- Flexible group switching
- Switching of HVAC and 230 V lights

TIME FUNCTIONS

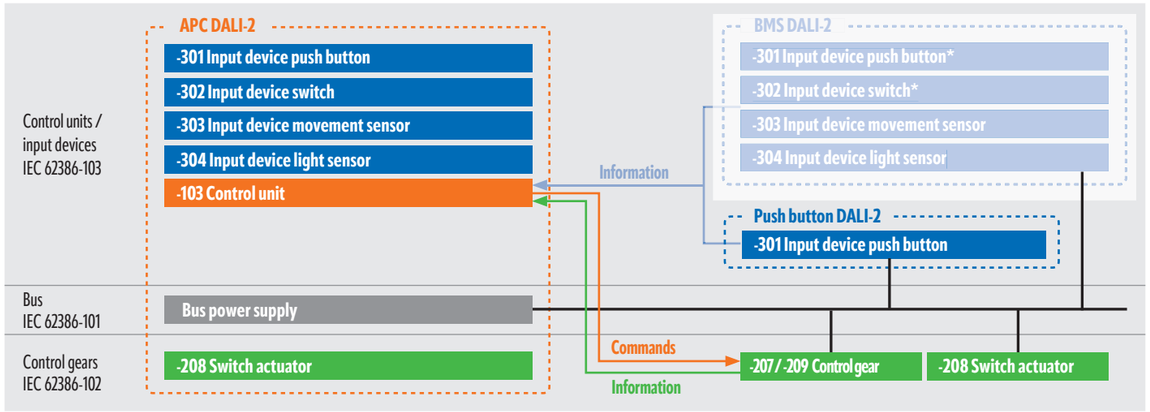
- Control based on the day of the week and the time of the day
- Automatic brightness control
- Stairwell light automation
- Standby switch-off
- Swarm function
- Central functions

HUMAN CENTRIC LIGHTING

- SymbiLogic (energy-efficient HCL)
- Night operation
- Alarm functions

APC PRESENCE DETECTOR – DALI-2 BUS COMMUNICATION

APC presence detectors (APC: Application Controller = control unit) from ESYLUX combine the most important features in a single device. Using sensor technology, they detect presence and brightness and overtake the direct control of the operating devices at the same time.



* Not included in the COMPACT MINI BMS DALI-2 detector.

BMS PRESENCE DETECTORS AS INPUT DEVICES

BMS presence detectors (BMS: Building Management System) supplement the APC presence detector (APC: Application Controller) of a system as this detector only detects presence and measures brightness in its own room zone.

Using built-in presence and light sensors and additional push button inputs, BMS presence detectors (BMS: Building Management System) supply the necessary information to all other areas, setting the foundation for all 16 groups to be controlled individually. The design variants from the COMPACT, FLAT and COMPACT MINI series offer solutions for a wide range of visual requirements.

COMPACT SERIES

- Integrated presence and light sensors
- Two-piece housing for simple installation
- Two potential-free inputs for conventional switches
- Detection ranges of Ø 8, 24 or 32 m

FLAT SERIES

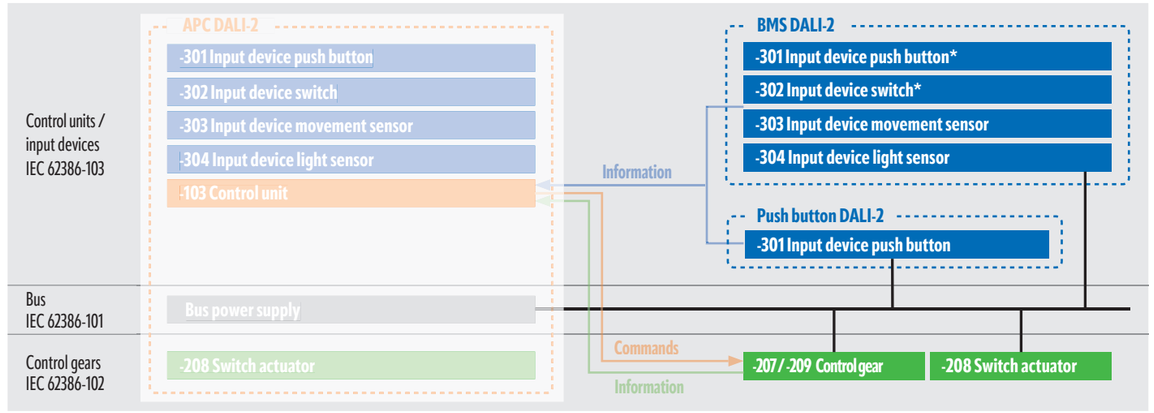
- Integrated presence and light sensors
- Flat, elegant design (round or rectangular)
- One potential-free input for conventional switches
- Detection range of Ø 8 m

COMPACT MINI SERIES

- Integrated presence and light sensors
- Particularly compact design for unobtrusive operation
- Detection range of Ø 8 m

BMS PRESENCE DETECTOR – DALI-2 BUS COMMUNICATION

Using built-in presence and light sensors as well as push button inputs, BMS presence detectors (BMS: Building Management System) combine all the important input devices in line with the DALI-2 standard in a single housing, making planning and installation easier.



* Not included in the COMPACT MINI BMS DALI-2 detector.

SIMPLE CONFIGURATION VIA THE ESY-APP

GROUP AND CONFIGURE DECENTRALISED DALI-2 SOLUTIONS VIA THE APC PRESENCE DETECTOR

The intuitive ESY-App from ESYLUX allows users to configure lighting systems in no time at all. With quick detection of addressed devices, grouping via the quick assignment function and the scene editor, DALI has never been so easy!

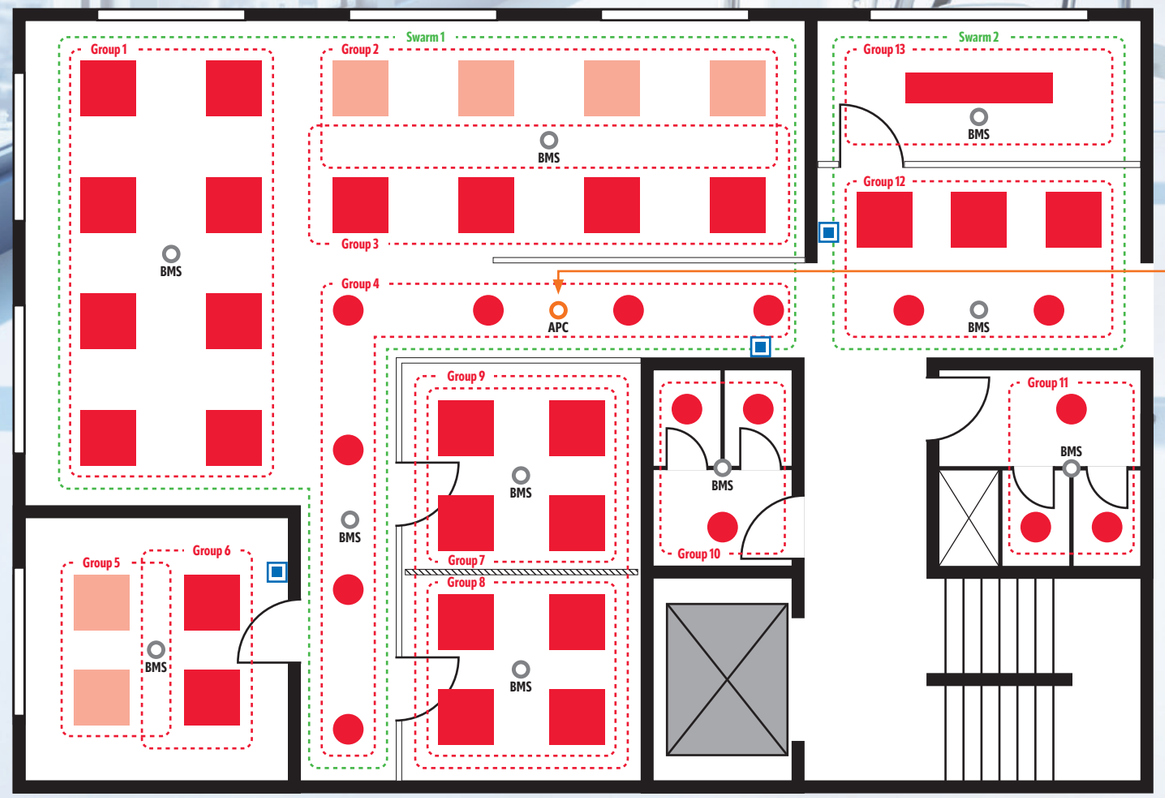
The ESY-App is able to communicate with the APC presence detector (APC: Application Controller) of whichever system has stored the settings. The system's Bluetooth module is capable of bidirectional communication, meaning parameters can be both configured and read out directly via smartphone.

CROSS-ROOM DECENTRALISED CONTROL

FUNCTIONAL ADVANTAGE FOR EVERY ZONE

FLEXIBLE GROUP CONTROL OF APC PRESENCE DETECTORS

Whether using the swarm function, orientation light or time-controlled night operation, all users in any building can benefit from a light control that is tailored to meet the requirements of the given area. The APC presence detectors (APC: Application Controller) can be combined with the BMS presence detector (BMS: Building Management System) to form intelligent lighting groups in all sections and offer a variety of functions for individual lighting in every room zone as required.



Lights
Presence detector
DALI-2 Push button

In this example, the APC presence detector controls 47 luminaires in 13 groups within a section of building (up to 64 luminaires in 16 groups are possible)

Group 1, 2, 3	Open-plan office
Group 4	Corridor
Group 5, 6	Single office
Group 7, 8, 9	Meeting room 1 (with partition)
Group 10, 11	WC
Group 12	Reception area
Group 13	Meeting room 2

Quantity	Product name	Item no.
1	PD-C 360bt/8 APC10 PS plus DALI-2	EP10428142
2	PD-C 360/24 BMS DALI-2	EP10428210
3	PD-C 360/8 BMS DALI-2	EP10428203
5	PD-C 360/8 mini BMS DALI-2	EP10423048
31	CELINE-2 PNL 625 DDP OP 4000 840 IP20 ELC	EQ10132377
31	DRIVER-SET 30W RJ45 DALI-2	EQ10127793
3	PUSH BUTTON x8 DALI-2 WH	EP10431630
15	ELSA-2 DL 225 OP 110° 1800 840 WH DALI	EO10298950

F A↑G

FUNCTIONS

APC30 HCL

SYMBILOGIC TECHNOLOGY

ADAPTIVE HCL LIGHT CONTROL FOR ENERGY-EFFICIENT HUMAN CENTRIC LIGHTING

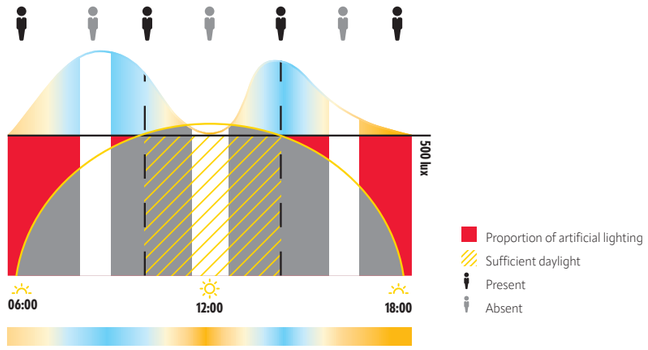
Human Centric Lighting is the optimal lighting for people indoors. It uses brightness and colour that imitates daylight to improve well-being, vitality and concentration levels. It also stabilises the day-night rhythm, improves sleep and benefits your health.

To enable Human Centric Lighting to be implemented in an energy efficient and sustainable manner, ESYLUX developed SymbiLogic technology. This technology uses presence and daylight dependent adaptive HCL light control and represents the most up-to-date form of the tried-and-tested concept of constant light control indoors. Those in the workplace feel better and the intelligent controls saves users money while also saving natural resources.

SYMBI LOGIC™

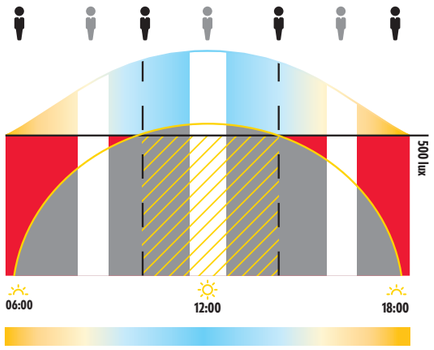
Adjustable according to the day of the week and time of the day (APC30 HCL, APC20):
- Set point for level of brightness
- Switch-off delay time
- Constant light control active/inactive
- SymbiLogic active/inactive (APC30 HCL)

CIRCADIAN CYCLES FOR OFFICE APPLICATIONS



By altering the illuminance and light colour in the middle of the day, the circadian cycles for offices help effectively combat midday tiredness.

OR FOR HEALTH FACILITIES AND EDUCATIONAL INSTITUTIONS



Alternatively, SymbiLogic offers a lighting sequence that ideally emulates the natural qualities of a sunny day. This sequence is ideal for nursing homes or secondary schools.

APC30 HCL APC20 APC10

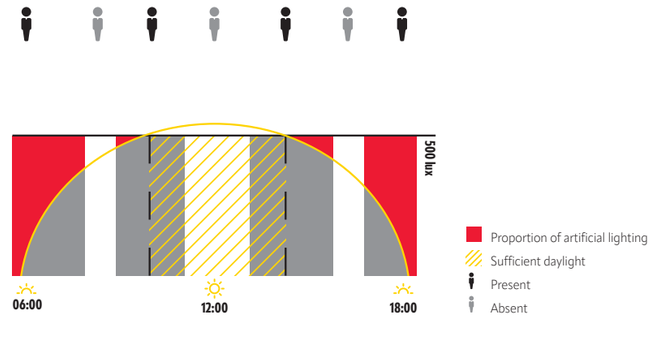
CONSTANT LIGHT CONTROL

PRESENCE AND DAYLIGHT DEPENDENT CONTROL WITH FIXED LIGHT COLOUR

An intelligent light control switches the lighting on only when people are detected and sets the necessary level of brightness based on the current level of daylight. The result is a presence and daylight dependent constant light control – the energy-efficient control concept for lighting with fixed light colour.

Presence detectors from ESYLUX use tried-and-tested high-quality sensor technology. They use radiation-free passive infrared technology to detect human presence and a built-in light sensor to reliably measure the current level of brightness in the workplace. Not only does this reduce energy usage, it also increases the level of comfort. Workers therefore don't need to worry about a thing and can concentrate fully on the task at hand.

PRESENCE AND DAYLIGHT-DEPENDENT CONSTANT LIGHTING CONTROL



The energy-efficient form of light control: presence and daylight-dependent constant light control of a presence detector.

APC30 HCL APC20 APC10

EASY GROUPING

QUICK ASSIGNMENT FOR EVERY ROOM ZONE

Decentralised DALI-2 solutions from ESYLUX enable rapid commissioning using the factory settings and just a single group in broadcast mode. The ESY-App can then be used to form separate groups from lights and APC or BMS presence detectors for individual light control in any room zone at a later stage. Operating devices emit a quick flash when they have been selected in the app and then all the user has to do is press one button to assign every bus participant to the desired group.

When operating devices have been selected via the app, they flash briefly to signal this.

INDIVIDUAL LIGHT CLOSED LOOP CONTROL IN EVERY ZONE

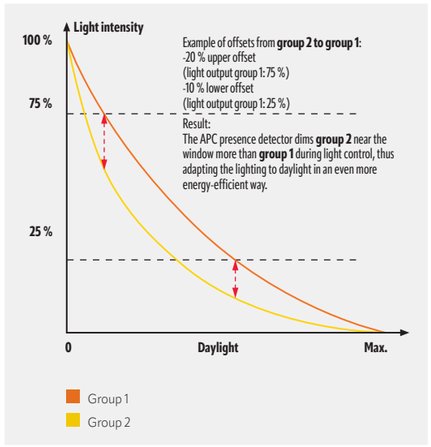
Every presence detector uses the integrated passive infrared presence detector and lighting sensor to ensure an individual presence and daylight-dependent light closed loop control in its zone. If nobody is present, like in the group 2 zone, the lighting does not switch on.

APC30 HCL APC20 APC10

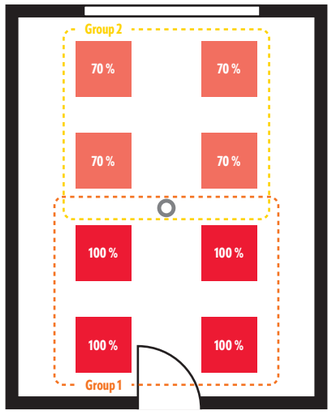
LIGHT MANAGEMENT WITH OFFSET

ENERGY-EFFICIENT GRADING BETWEEN GROUPS

Every presence detector ensures individual light control in its own area. In rooms that only have windows on one side or in which light only enters from an adjacent area on one side of the room, just one detector can be used to make the system even more energy efficient. By dividing lights far from the window and near the window into several groups and defining a control offset between the groups. The lights near the window are then dimmed more than the lights inside during light control – and thus adapted even more individually to daylight!



INDIVIDUAL LIGHT CLOSED LOOP CONTROL WITH OFFSET



Due to the offset between the groups, the APC presence detector dims the lights near the window more than the ones inside.

APC30 HCL APC20 APC10

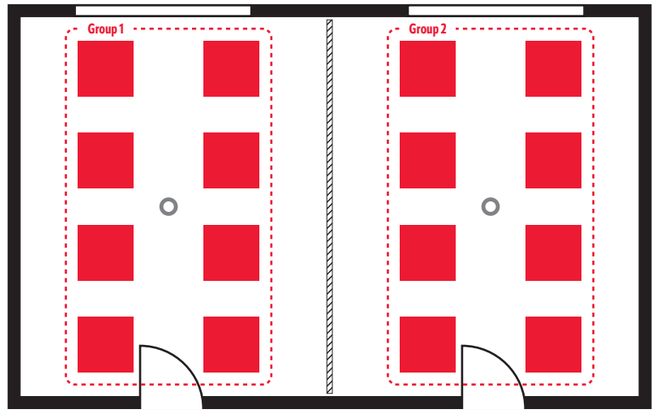
SWITCH GROUPS FLEXIBLY

EASY ADJUSTMENT FOR WHEN ROOM USAGE CHANGES

The purpose of certain areas in modern rooms can be prone to change depending on the different application scenarios. The concept of flexible group switching allows the DALI-2 solutions with decentralised control from ESYLUX to be optimally configured.

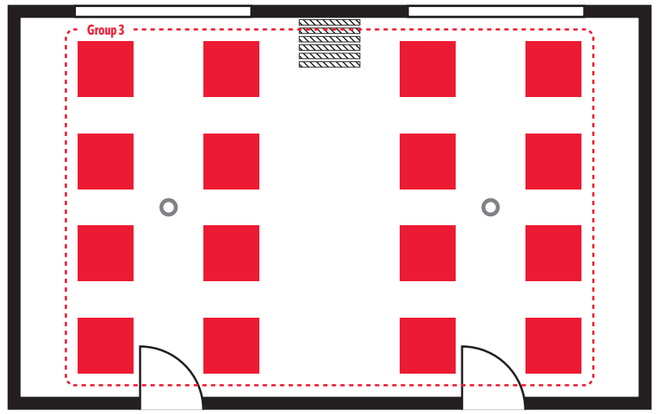
The lights of one area are all separated across multiple groups via the ESY-App. Depending on the situation, one of up to three switches that are connected to the push button input of an APC presence detector then activate another group scenario. This can be triggered by someone using the light switch or opening or closing a partition. Device functions and parameters can thus be flexibly adjusted to suit different applications.

Can be triggered based on the day of the week and time of day: Switching groups



GROUP SWITCHING SCENARIO 1: PARTITION IS CLOSED

When a partition is closed, this divides the room in scenario 1 into two halves. The lights in the two halves are each assigned to a different group. The presence detectors each follow an individual light closed loop control in their group.

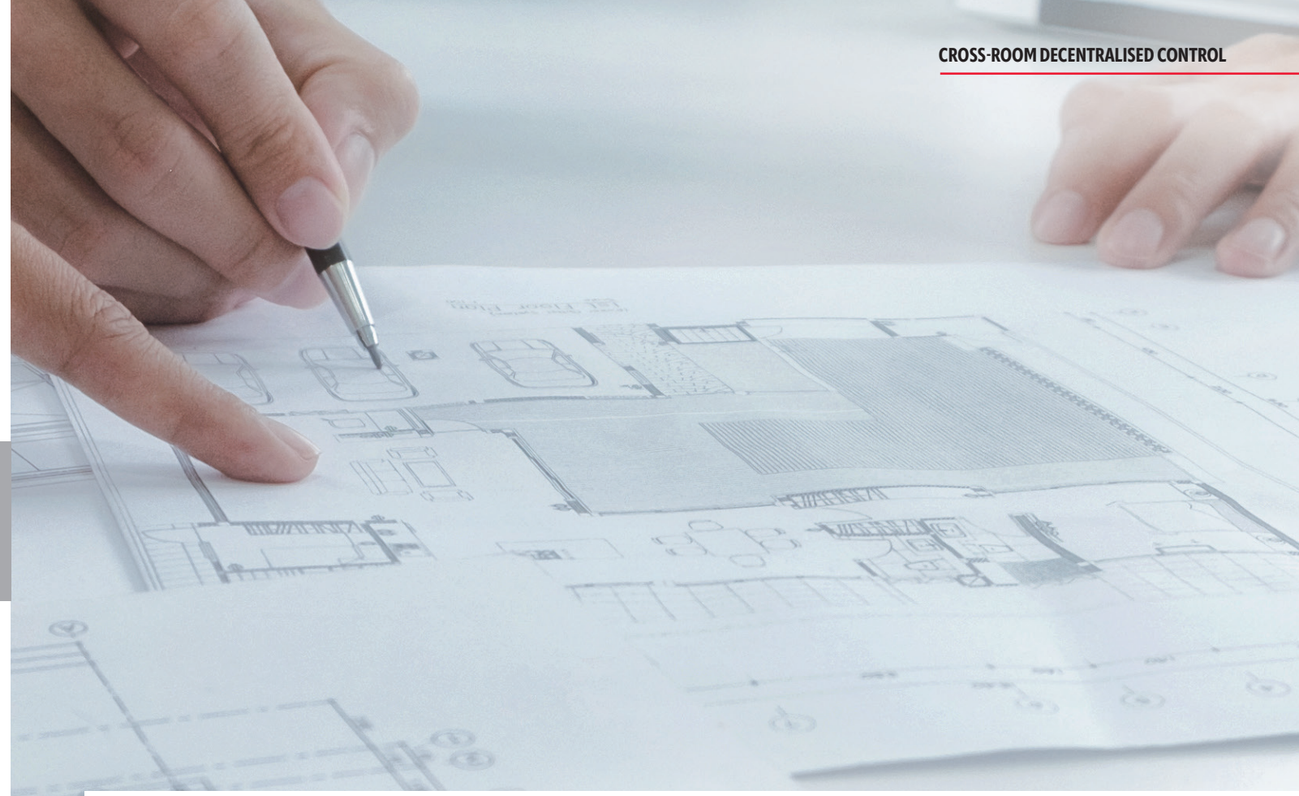


GROUP SWITCHING SCENARIO 2: PARTITION IS OPENED

In addition to the groups mentioned in scenario 1, all lights and presence detectors in the room are also assigned to a currently inactive group 3.

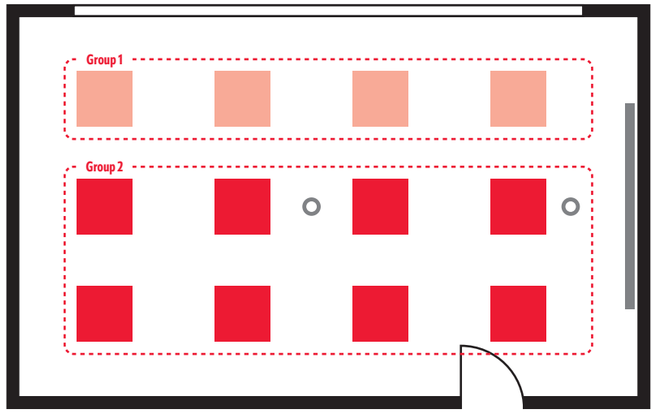
By opening the partition, the push button input of the presence detector activates group 3 and simultaneously deactivates groups 1 and 2. This results in a uniform and harmonious light closed loop control for the entire room.

Lights
Presence detector



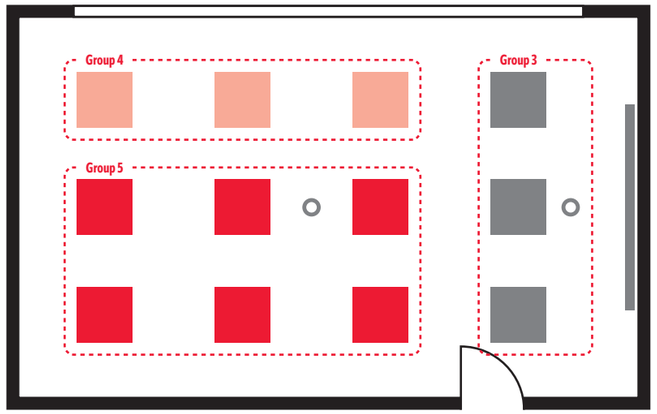
CLASSROOMS WITH GROUP SWITCHING AND CONTROL OFFSET

Group switching can be combined with other functions. In the example classroom on the right, group 1 and 2 are active under normal teaching conditions. A control offset is set between the two groups.



If the light switch is actuated to start a projector presentation, both groups are deactivated and groups 3, 4 and 5 are activated.

The illuminance of group 3, which is in the presentation area, is then reduced to 0 %. The lights in groups 4 and 5 continue to use the offset control, just with a lower set point and lower illuminance for this setting.



APC30 HCL APC20

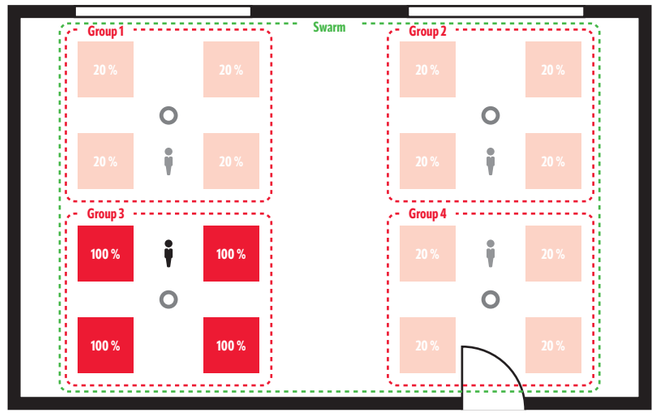
SUPPORTING SWARM FUNCTION

FOR GREATER COMFORT IN MEETING ROOMS AND OPEN-PLAN OFFICES

If you are working alone in a large office, you can often find yourself in an isolated pool of light at your workstation as the rest of the office is not illuminated and left in darkness without sufficient daylight. These conditions can often be unpleasant and occasionally quite scary. It also creates a contrast between your workstation and the surrounding office that can strain your eyes.

The swarm function combats this by using the APC presence detector to dim the lighting in the unoccupied areas of the room to a pleasant base level of brightness, which can be adjusted via the ESY-App. Then when the last person leaves the office, the presence detector switches off the lights in all the zones.

SWARM FUNCTION IN SHARED OFFICES



Illuminance of lights in %
Presence detector
Present
Absent

APC30 HCL APC20 APC10

ENERGY-EFFICIENT SWITCHING

Can be activated depending on the day of the week or time of the day: Standy swich-off

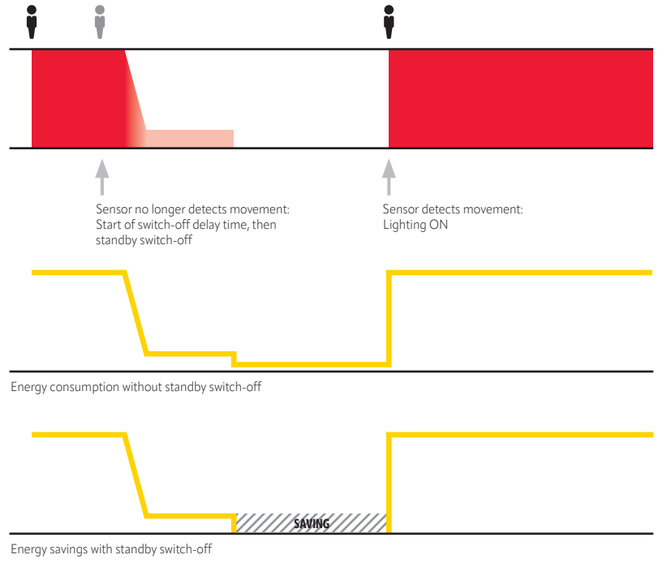
PRESENCE-DEPENDENT CONTROL OF ADDITIONAL ROOM TECHNOLOGY

To be productive and stay healthy, people don't just need optimal lighting, they also need a regular flow of fresh air. Using its separate switching output, APC presence detectors can activate ventilation when a presence is detected and then later switch it off. 230-V additional lighting, screens, printers or electrically height-adjustable desks can also be integrated in an energy-efficient manner.

The APC30 HCL and APC20 variants are also designed to reduce the standby consumption of DALI-2 control gears: Using the switching output, they simply switch off the control gears of the main lighting automatically at the end of the switch-off delay time if required!

- **Switching of HVAC/230-V devices** **(APC30 HCL, APC20, APC10)**
- **Standby switch-off** **(APC30 HCL APC20)**

STANDBY SWITCH-OFF



Lighting
Orientation light 10 %
Energy consumption
Saving
Present
Absent

1 - 4 Wh x 12 lights = 12 - 48 Wh per room.
Assuming a 10 hour (20:00 to 06:00) saving 365 days a year: approx. 44 - 175 kWh.
In an office with 10 rooms, this can add up to 440 - 1750 kWh a year and generate approx. EUR 550 in savings.

APC30 HCL APC20 APC10

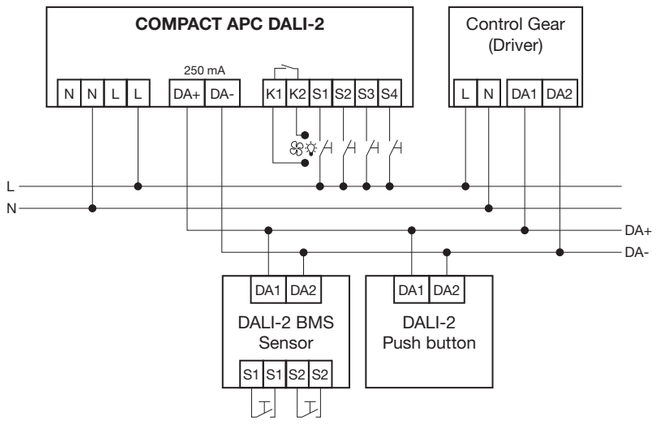
EASY TO OVERRIDE

INDIVIDUAL LIGHT WITH STANDARD ODER DALI-2 PUSH BUTTONS

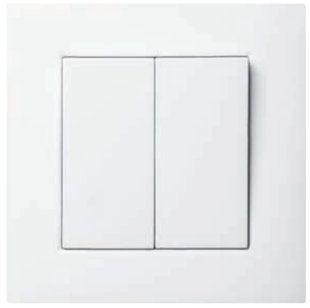
APC presence detectors have an automatic control system, making them easy to use as no manual intervention is needed. However, they may be situations in which the user wants to override the automation and adjust the lights to how they want them, whether they wish to use a pre-set scene, dim the lights individually or change the light colour using SymbiLogic.

APC and BMS presence detectors from ESYLUX offer two options for this. Their push button inputs allow the use of conventional, commercially available push buttons, whose push button signals the detectors then simply convert into DALI commands. Alternatively, DALI 2 push buttons from ESYLUX are available with up to 8 single push buttons. No matter which push button type is used: The function assignment can always be conveniently individualized via the Application Controller!

PUSH BUTTON CONNECTION CIRCUIT DIAGRAM



Can be activated based on the day of the week and time of day: Scenes



230V PUSH BUTTON

Potential inputs on the APC and potential-free inputs on the BMS presence detectors allow simple overriding via 230V push button. Existing ones can thus be easily reused.

DALI-2 PUSH BUTTON FROM ESYLUX

The alternative: DALI 2 push buttons from ESYLUX, which are compatible with frames from other manufacturers. To make the function assignment of the up to 8 single push buttons visible, individual labels can be conveniently inserted.

APC30 HCL APC20 APC10

DIMMING WITH SET POINT ADJUSTMENT

OVERRIDING AND MANUAL CONFIGURATION

Individually dimming in many automation solutions can cause the light closed loop control to stop and the illuminance to become static. The user must then manually reactive the control himself – or the control will only restart when a person is detected after a period of no presence being detected.

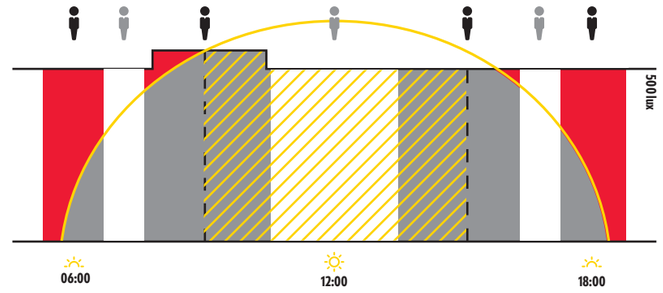
APC presence detectors offer a clever alternative: They can be configured so that dimming changes the set point of the level of brightness for the light closed loop control, which then continues to operate in an energy-efficient and uninterrupted manner. Depending on the settings, this change to the set point can be either fixed or temporary.

If the set point is changed temporarily in the configuration, the APC presence detectors will automatically revert back to the default value when a person is detected after a period of no presence being detected.

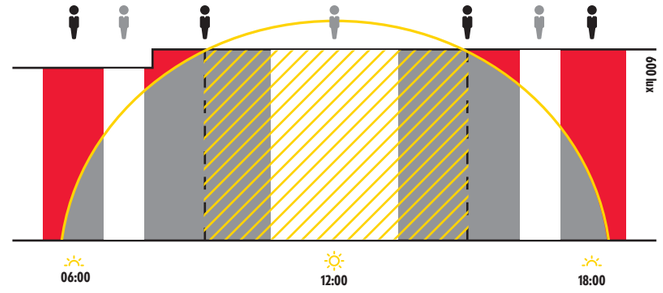
Manually dimming can also make a fixed change to the set point. The value can be set at any point in the ESY-App and so the normative standard can be changed as the user wishes.

Proportion of artificial lighting
Sufficient daylight
Present
Absent

DIMMING WITH A TEMPORARY CHANGE TO THE SET POINT



DIMMING WITH A FIXED CHANGE TO THE SET POINT



APC30 HCL APC20 APC10

COMFORTABLE AFTERGLOW

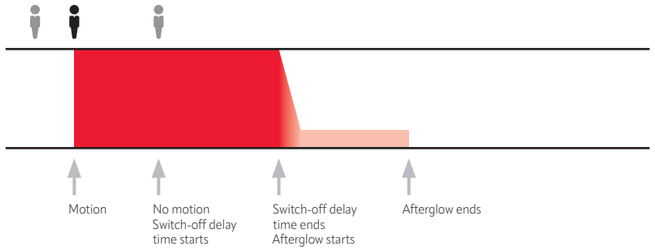
BASIC LIGHTING FOR SHORTER PERIODS OF NO PRESENCE

In many jobs and professions, workers will leave their stations for just a brief period throughout the day. If the presence detector's switch-off delay time has already been executed by the time the worker returns, the room is in darkness, even though a dimmed light would create a much nicer setting and make the worker feel safer.

APC presence detectors overcomes this issue thanks to its patient afterglow. It begins at the end of the switch-off delay time and welcomes the returning worker with an inviting basic level of lighting. The illuminance and duration of the afterglow can be set individually.

Can be activated depending on the day of the week and time of the day (APC30 HCL, APC20): afterglow and orientation light

AFTERGLOW AT THE END OF THE SWITCH-OFF DELAY TIME



After the switch-off delay time has ended, the afterglow stays on for a while longer, emitting a dimmed light. So if you are away for just a brief period of time, you will come back to find a pleasant basic level of lighting.

Lighting
Reduced luminous efficiency
Present
Absent

APC30 HCL APC20 APC10

SAFE ORIENTATION LIGHT

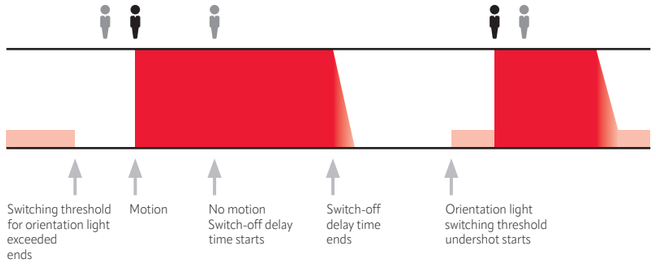
BASIC LIGHTING FOR LONGER PERIODS OF NO PRESENCE

A dimmed basic lighting doesn't just make things more pleasant for people by shining an afterglow, it also prevents someone having to go from a bright office into a dark corridor. At the end of the switch-off delay time, the corridor lighting does not switch off but automatically switches to an energy-saving orientation light mode.

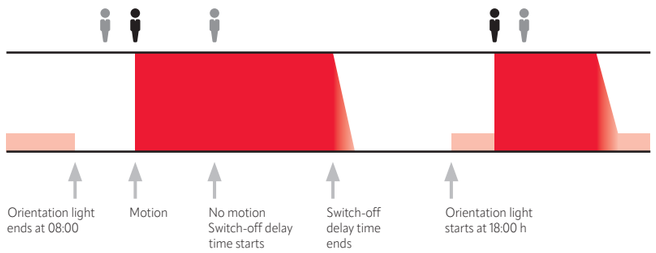
Depending on the configuration, the orientation light will only shine if the ambient lighting level is below a set switching value or will shine following set times and days of the week. The two options can even be combined together. The time-controlled function avoids the orientation light still being lit when a building is no longer being used much, such as late in the evening or at night.

- **Orientation light based on brightness (APC30 HCL, APC20, APC10)**
- **Orientation light based on weekday and time (APC30 HCL, APC20)**

ORIENTATION LIGHT BASED ON BRIGHTNESS



ORIENTATION LIGHT BASED ON TIME



APC30 HCL APC20 APC10

VARIABLE OPERATING MODES

FROM FULLY AUTOMATIC SYSTEMS TO STAIRWELL LIGHT AUTOMATION

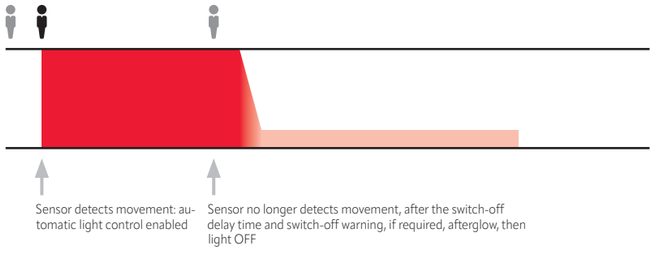
APC presence detectors can operate as a fully automatic system if required, meaning the user does not have to worry about anything. In semi-automatic operation, users can opt to switch the lights on and off themselves but the presence detector is on hand to take over if the user has forgotten to turn that last light off. Users can also select a fully manual operation without any automatic switching.

The APC30 HCL and APC20 versions offer further options: with the stairwell light automation, no one is left in the dark in staircases and exits, as the light cannot be switched off manually.
With the automatic brightness control, you can regulate the illuminance of the lighting groups exclusively depending on the current ambient light and thus ensure representative light in the evening in entrance areas, for example, regardless of presence.

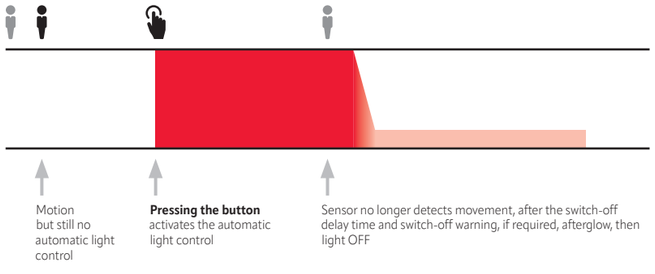
AN OVERVIEW OF OPERATING MODES:

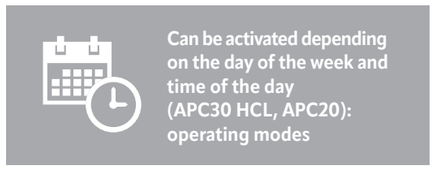
Fully automatic	**(APC30 HCL, APC20, APC10)**
Semi-automatic	**(APC30 HCL, APC20, APC10)**
Manual operation	**(APC30 HCL, APC20, APC10)**
Automatic brightness control	**(APC30 HCL, APC20)**
Stairwell light automation	**(APC30 HCL, APC20)**

FULLY AUTOMATIC OPERATION

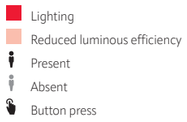


SEMI-AUTOMATIC OPERATION





Can be activated depending on the day of the week and time of the day (APC30 HCL, APC20): operating modes



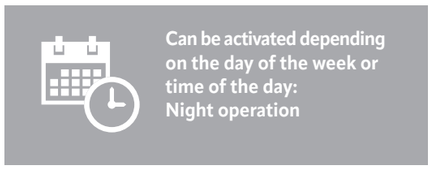
APC30 HCL

TIME-CONTROLLED NIGHT OPERATION

CONVENIENT ORIENTATION IN HEALTH FACILITIES

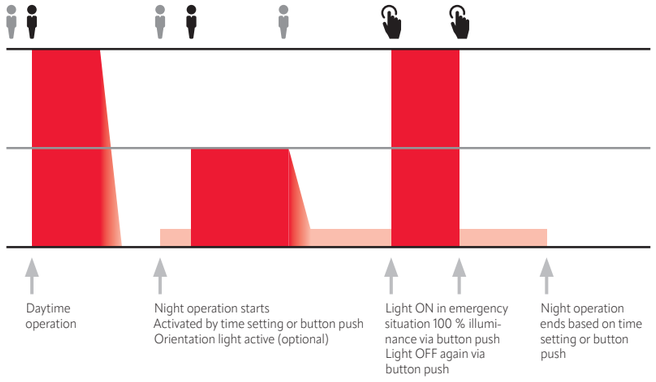
In retirement homes, care homes and hospitals, it's not just up to the staff to create a soothing and pleasant atmosphere for the residents and patients, building technology plays a huge role as well. For example, if you have to get up in the middle of the night, the last thing you want is the sudden glare of a bright light as soon as you switch it on.

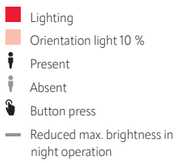
A time-controlled night operation allows the illuminance to be easily restricted during the early hours, such as to 30 % for a light group in the bedroom or 50 % for the groups in the corridors. If the hospital staff quickly need a higher illuminance in a certain situation, then they can simply use the emergency button to bring illuminance up to 100 %!



Can be activated depending on the day of the week or time of the day: Night operation

FULLY AUTOMATIC NIGHT OPERATION



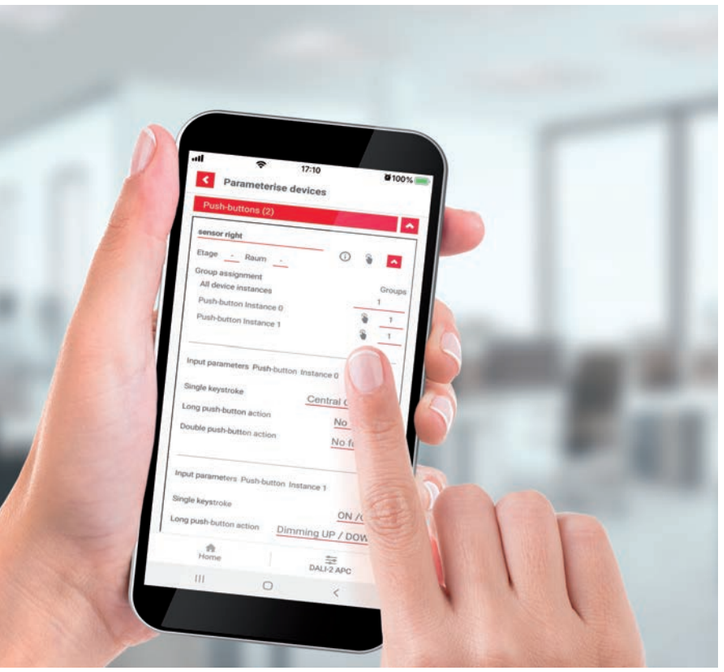


USEFUL CENTRAL FUNCTIONS

UNIFORM SWITCHING OF GROUPS

Individual lighting in every room and the option to override the automation when desired create comfortable lighting conditions in automatic operation modes. However, there are also instances where it is advantageous to be able to change all the lights in a system at the same time from a central position.

APC30 HCL and APC20 therefore allow users to perform a central override of some or all of the 16 groups. For example, when the cleaning staff arrive earlier in the morning or in the evening, they can activate a cleaning mode, which gives them 100 % illuminance in every area so they can get to work.



CENTRAL OVERRIDE

The central function allows some or all of the groups to be overridden universally and at the same time. This function is available with variants such as the APC30 HCL.

- ON/OFF
- Change the luminous efficiency and colour temperature
- Activated by button press or based on the day of the week or time of the day
- Light control of up to 16 groups

Can be activated depending on the day of the week or time of the day: central functions

APC30 HCL

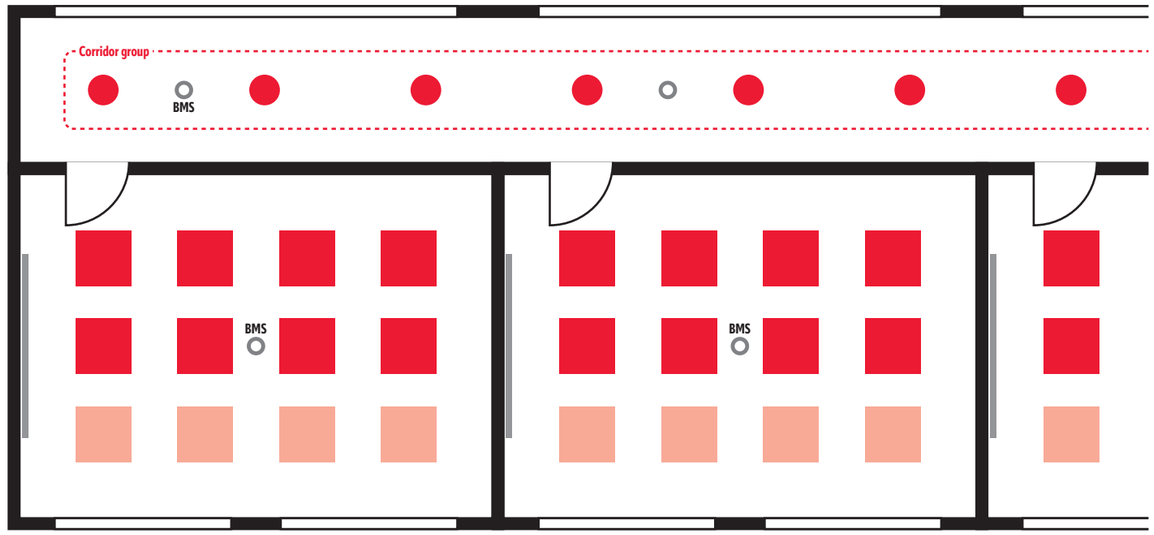
PROTECTIVE ALARM FUNCTIONS

MORE SAFETY IN EMERGENCY SITUATIONS

Hazardous situations requiring an alarm to alert and warn occupants – such as a break-in, aggressive customers or even worse a rampage – can sometimes occur in public and office buildings. The APC30 HCL therefore offers the option of setting an alarm that is triggered manually or automatically.

If the detector detects too much movement at a certain time or in an area that does not normally receive much traffic, it can trigger a pulsing warning light in a different pre-selected room. Another option is for the end user to activate the alarm using an emergency button connected to one of the push button inputs of the presence detector when faced with unwanted visitors for example.

Can be activated depending on the day of the week or time of the day: alarm functions



Lights
Presence detector

INTRUDER ALERT IN SCHOOLS

Alarms in schools can warn staff and pupils of any imminent threat of a rampage. The light group in the corridor can be set to begin flashing if a member of staff activates the set emergency button.

COMPACT SERIES

FLAT SERIES

COMPACT MINI SERIES

SMART INPUT ON ALL LEVELS

BMS PRESENCE DETECTORS IN BUILDING MANAGEMENT SYSTEMS

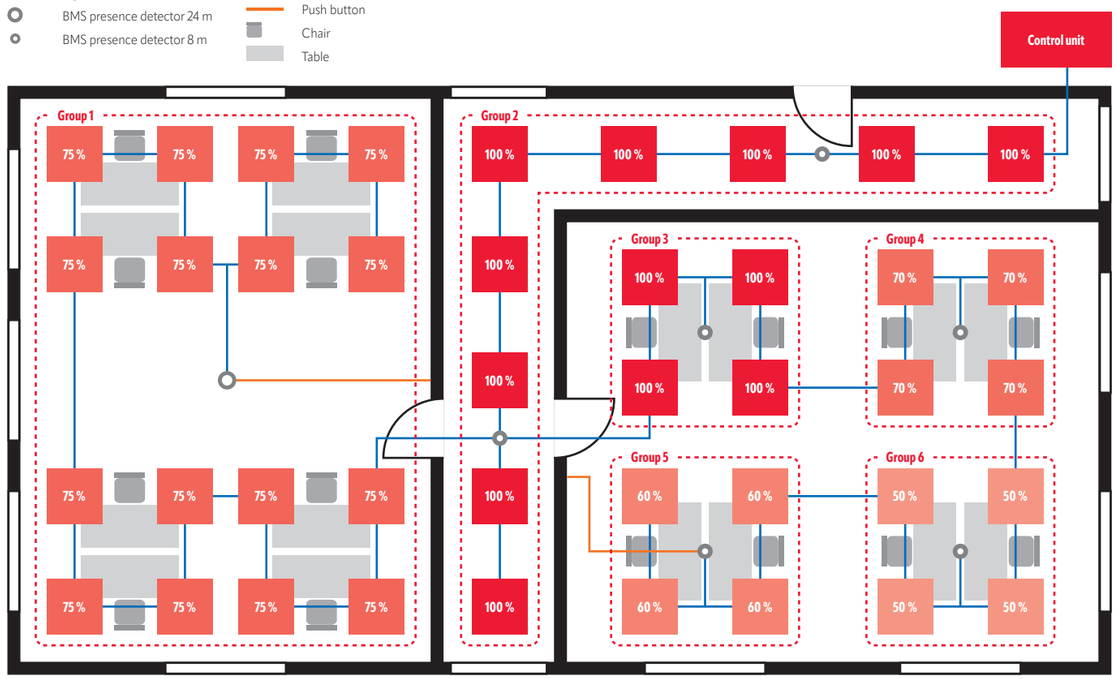
Many large, modern office buildings use building management systems with a central control function. BMS presence detectors (BMS: Building Management System) from ESYLUX feature field-tested high-quality sensors, making them a top choice for building system management as they reliably supply the control unit with all the necessary information. Furthermore, the FLAT and COMPACT MINI variants are the ideal solutions for spaces with sophisticated design features.

OVERVIEW OF THE BMS PRESENCE DETECTOR

- Easy to integrate in third-party building management systems, such as those from Beckhoff, Wago, Sauter or Helvar (Router 950) as input devices
- Integrated presence and light sensors
- Compact, flat or particularly small series design
- Detection range of Ø 8 m (FLAT, COMPACT MINI) or of Ø 8 m, 24 and 32 m (COMPACT)
- Potential-free inputs for conventional switches (2x COMPACT, 1x FLAT):

  Existing 230 V buttons can be used directly!
- Alternatively: DALI-2 push buttons from ESYLUX can be integrated via DALI bus

  Available with up to 8 single push buttons



SIMPLE DALI: BROADCAST

SINGLE-ROOM SOLUTIONS WITHOUT ADDRESSING

As existing buildings are modernised to be more energy-efficient, project managers sometimes have to work through the building room by room. ESYLUX solutions with DALI Broadcast offer the ideal sensor solution for this type of scenario.

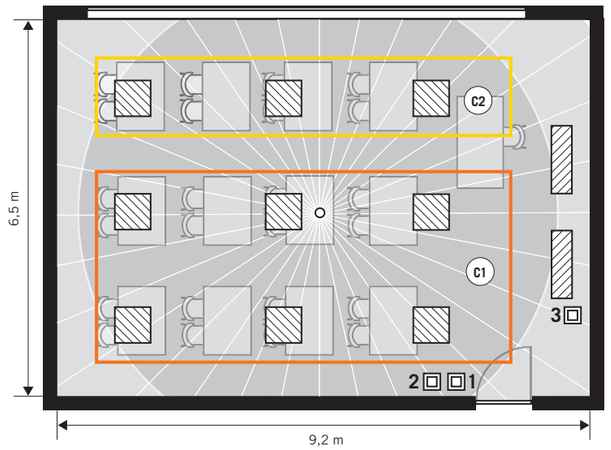
The sensors do not need to be addressed, are ready to use instantly without having to change the factory settings and when combined with DUO DALI presence detectors from the COMPACT series, offer solutions with two light channels and an energy-efficient offset.

EXAMPLE OF APPLICATION IN A CLASSROOM

In constant lighting control concepts for lighting systems with lights near to and far from windows, an offset between the light channels ensures optimal lighting conditions and improved energy efficiency.

ACTUATOR FULL AUTO C3 DALI
ACTUATOR SEMI AUTO C4 DALI

ESYLUX actuators supplement all Broadcast presence detectors by up to two switching channels (screens, interactive boards, accent lighting or HVAC). The lights and actuators can be operated as a fully automatic or semi-automatic system.

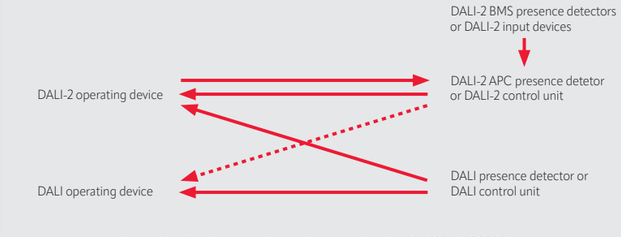


DOWNWARD COMPATIBILITY DALI-2 TO DALI

Due to backwards compatibility, DALI-2 control gear can also recognise and interpret DALI commands.

This means ESYLUX DALI Broadcast detectors can also be used in lighting systems with DALI-2 lights and operating devices.

The DALI-2 operating devices can interpret and follow the DALI commands from the detectors without any issues.



DUO DALI PRESENCE DETECTORS WITH TWO BROADCAST CHANNELS

- Presence and daylight dependent constant light control
- Control of two lighting systems with offset
- Integrated bus power supply for up to 25 operating devices per light channel
- Switch-off warning, orientation light and night light
- Up to two additional switching channels with a DALI actuator as an accessory
- Two push button inputs for manual control
- Temporary override by remote control
- Ready for use immediately with factory settings
- Low energy consumption

PD-C 360i/32 DUO DALI
PD-C 360i/24 DUO DALI

PD-C 360i/8 DUO DALI

PRESENCE DETECTOR WITH ONE BROADCAST CHANNEL

- Presence and daylight dependent constant light control
- Up to two additional switching channels with a DALI actuator as an accessory
- Push button input for manual control
- Temporary override by remote control
- Orientation light
- Ready for use immediately with factory settings
- Bus power supply as an accessory

PD-FLAT 360i/8 ROUND WHITE DALI
PD-FLAT 360i/8 ROUND BLACK DALI

PD-C 360i/8 mini DALI

PD-FLAT 360i/8 SQUARE WHITE DALI
PD-FLAT 360i/8 SQUARE BLACK DALI

PD-FLAT 360i/6 mini DALI

PRODUCT LIST

PRESENCE DETECTORS/CEILING MOUNTING

Product group / product name	Item no.	Sensing range	Detection range	Installation type	Number of light channels	Function	Constant lighting control	Lighting push button input	Channel 1 switch-off delay time	Number of HVAC channels	Configurable push button input	Slave input	Protection type	Dimensions (mm)	Core portfolio	New
COMPACT series																
DALI																
PD-C 360i/8 DUO DALI WAGO WINSTA CodeB (white, similar to RAL 9010)	EP10424649	360°	Ø 8 m	RM	2	switching/ dimming	•	2	60 s...240 min	2*	•	IP20	Ø 108, H 99	•		
PD-C 360i/24 DUO DALI WAGO WINSTA CodeB (white, similar to RAL 9010)	EP10424656	360°	Ø 24 m	RM	2	switching/ dimming	•	2	60 s...240 min	2*	•	IP20	Ø 108, H 107	•		
PD-C 360i/8 DUO DALI WAGO WINSTA CodeA/I (white, similar to RAL 9010)	EP10424663	360°	Ø 8 m	RM	2	switching/ dimming	•	2	60 s...240 min	2*	•	IP20	Ø 108, H 99	•		
PD-C 360i/24 DUO DALI WAGO WINSTA CodeA/I (white, similar to RAL 9010)	EP10424670	360°	Ø 24 m	RM	2	switching/ dimming	•	2	60 s...240 min	2*	•	IP20	Ø 108, H 107	•		
PD-C 360i/8 DUO DALI WAGO WINSTA CodeI (white, similar to RAL 9010)	EP10424847	360°	Ø 8 m	RM	2	switching/ dimming	•	2	60 s...240 min	2*	•	IP20	Ø 108, H 99	•	★	
PD-C 360i/24 DUO DALI WAGO WINSTA CodeI (white, similar to RAL 9010)	EP10424854	360°	Ø 24 m	RM	2	switching/ dimming	•	2	60 s...240 min	2*	•	IP20	Ø 108, H 107	•		
PD-C 360i/8 DUO DALI (white, similar to RAL 9010)	EP10427442	360°	Ø 8 m	FM	2	switching/ dimming	•	2	60 s...240 min	2*	•	IP20	Ø 108, H 62	•		
PD-C 360i/24 DUO DALI (white, similar to RAL 9010)	EP10427459	360°	Ø 24 m	FM	2	switching/ dimming	•	2	60 s...240 min	2*	•	IP20	Ø 108, H 70	•		
PD-C 360i/32 DUO DALI (white, similar to RAL 9010)	EP10427787	360°	Ø 32 m	FM	2	switching/ dimming	•	2	60 s...240 min	2*	•	IP20	Ø 108, H 70	•		
PD-C 360i/8 FM DUO DALI (white, similar to RAL 9010)	EP10428784	360°	Ø 8 m	FM	2	switching/ dimming	•	2	60 s...240 min	2*	•	IP20	Ø 108, H 98	•	★	
PD-C 360i/24 FM DUO DALI (white, similar to RAL 9010)	EP10428791	360°	Ø 24 m	FM	2	switching/ dimming	•	2	60 s...240 min	2*	•	IP20	Ø 108, H 106	•	★	
DALI-2																
PD-C 360/32 BMS DALI-2 (white, similar to RAL 9010)	EP10424885	360°	Ø 32 m	FM		sending values		2			2		IP20	Ø 108, H 70	•	★
PD-C 360bt/24 APC20 PS plus DALI-2 (white, similar to RAL 9010)	EP10428111	360°	Ø 24 m	RM	16	switching/ dimming	•	4	60 s...24 h	1	4	•	IP20	Ø 108, H 106		★
PD-C 360bt/8 APC10 PS plus DALI-2 (white, similar to RAL 9010)	EP10428142	360°	Ø 8 m	RM	16	switching/ dimming	•	4	60 s...24 h	1	4		IP20	Ø 108, H 106		★
PD-C 360bt/8 APC10 PS plus DALI-2 BK (black, similar to RAL 9005)	EP10428456	360°	Ø 8 m	RM	16	switching/ dimming	•	4	60 s...24 h	1	4		IP20	Ø 108, H 106		★
PD-C 360bt/24 APC10 PS plus DALI-2 (white, similar to RAL 9010)	EP10428159	360°	Ø 24 m	RM	16	switching/ dimming	•	4	60 s...24 h	1	4		IP20	Ø 108, H 106		★
PD-C 360/8 BMS DALI-2 (white, similar to RAL 9010)	EP10428203	360°	Ø 8 m	FM		sending values		2			2		IP20	Ø 108, H 62	•	★
PD-C 360/8 BMS DALI-2 BK (black, similar to RAL 9005)	EP10428449	360°	Ø 8 m	FM		sending values		2			2		IP20	Ø 108, H 62		★
PD-C 360/8 BMS FM DALI-2 (white, similar to RAL 9010)	EP10428807	360°	Ø 8 m	RM		sending values		2			2		IP20	Ø 108, H 98		★
PD-C 360/24 BMS DALI-2 (white, similar to RAL 9010)	EP10428210	360°	Ø 24 m	FM		sending values		2			2		IP20	Ø 108, H 70	•	★
PD-C 360/24 BMS DALI-2 BK (black, similar to RAL 9005)	EP10428432	360°	Ø 24 m	FM		sending values		2			2		IP20	Ø 108, H 70		★
PD-C 360/24 BMS FM DALI-2 (white, similar to RAL 9010)	EP10428814	360°	Ø 24 m	RM		sending values		2			2		IP20	Ø 108, H 106		★
PD-C 360bt/32 APC10 PS plus DALI-2 (white, similar to RAL 9010)	EP10428265	360°	Ø 32 m	RM	16	switching/ dimming	•	4	60 s...24 h	1	4		IP20	Ø 108, H 106		★
PD-C 360bt/8 APC20 PS plus DALI-2 (white, similar to RAL 9010)	EP10428272	360°	Ø 8 m	RM	16	switching/ dimming	•	4	60 s...24 h	1	4		IP20	Ø 108, H 106		★
PD-C 360bt/32 APC20 PS plus DALI-2 (white, similar to RAL 9010)	EP10428289	360°	Ø 32 m	RM	16	switching/ dimming	•	4	60 s...24 h	1	4		IP20	Ø 108, H 106		★
PD-C 360bt/8 APC30 HCL PS plus DALI-2 (white, similar to RAL 9010)	EP10428296	360°	Ø 8 m	RM	16	switching/ dimming	•	4	60 s...24 h	1	4		IP20	Ø 108, H 106		★
PD-C 360bt/24 APC30 HCL PS plus DALI-2 (white, similar to RAL 9010)	EP10428302	360°	Ø 24 m	RM	16	switching/ dimming	•	4	60 s...24 h	1	4		IP20	Ø 108, H 106		★
PD-C 360bt/32 APC30 HCL PS plus DALI-2 (white, similar to RAL 9010)	EP10428319	360°	Ø 32 m	RM	16	switching/ dimming	•	4	60 s...24 h	1	4		IP20	Ø 108, H 106		★
COMPACT MINI series																
DALI																
PD-C 360i/8 mini DALI (opal frosted)	EP10427510	360°	Ø 8 m	RM	1	switching/ dimming	•		60 s...240 min	2*		•	IP55	Ø 33, H 60	•	
DALI-2																
PD-C 360/8 mini BMS DALI-2 (opal frosted)	EP10423048	360°	Ø 8 m	RM		sending values							IP55	Ø 33, H 60	•	★

Product group / product name	Item no.	Sensing range	Detection range	Installation type	Number of light channels	Function	Constant lighting control	Lighting push button input	Channel 1 switch-off delay time	Number of HVAC channels	Configurable push button input	Slave input	Protection type	Dimensions (mm)	Core portfolio	New
FLAT series																
DALI																
PD-FLAT 360i/8 ROUND WHITE DALI (white, similar to RAL 9010)	EP10427541	360°	Ø 8 m	FM	1	switching/ dimming	•	1	60 s...240 min	2*	•		IP20	Ø 94, H 30	•	
PD-FLAT 360i/8 SQUARE WHITE DALI (white, similar to RAL 9010)	EP10427558	360°	Ø 8 m	FM	1	switching/ dimming	•	1	60 s...240 min	2*	•		IP20	L 77, W 77, H 30	•	
PD-FLAT 360i/8 SQUARE WHITE DALI (white, similar to RAL 9010)	EP10427558	360°	Ø 8 m	FM	1	switching/ dimming	•	1	60 s...240 min	2*	•		IP20	L 77, W 77, H 30	•	
PD-FLAT 360i/8 SQUARE BLACK DALI (black, similar to RAL 9004)	EP10427909	360°	Ø 8 m	FM	1	switching/ dimming	•	1	60 s...240 min	2*	•		IP20	L 77, W 77, H 30		
PD-FLAT 360i/8 ROUND BLACK DALI (black, similar to RAL 9004)	EP10427916	360°	Ø 8 m	FM	1	switching/ dimming	•	1	60 s...240 min	2*	•		IP20	Ø 94, H 30	•	
PD-FLAT 360i/8 LARGE ROUND WHITE DALI SET (white, similar to RAL 9010)	EP10428661	360°	Ø 8 m	FM	1	switching/ dimming	•	1	60 s...240 min	2*	•		IP20	Ø 104, H 30	•	
PD-FLAT 360i/8 ROUND WHITE DALI SET (white, similar to RAL 9010)	EP10428708	360°	Ø 8 m	FM	1	switching/ dimming	•	1	60 s...240 min	2*	•		IP20	Ø 94, H 30	•	
PD-FLAT 360i/8 SQUARE WHITE DALI SET (white, similar to RAL 9010)	EP10428715	360°	Ø 8 m	FM	1	switching/ dimming	•	1	60 s...240 min	2*	•		IP20	L 77, W 77, H 30	•	
DALI-2																
PD-FLAT 360/8 SW BMS DALI-2 (white, similar to RAL 9010)	EP10423024	360°	Ø 8 m	FM	1	sending values		1			1		IP20	L 77, W 77, H 30		
PD-FLAT 360/8 RW BMS DALI-2 (white, similar to RAL 9010)	EP10423031	360°	Ø 8 m	FM	1	sending values		1			1		IP20	Ø 94, H 30		
PD-FLAT-L 360/8 RW BMS DALI-2 (white, similar to RAL 9010)	EP10423055	360°	Ø 8 m	FM	1	sending values		1			1		IP20	Ø 104, H 30		
PD-FLAT 360/8 ROUND WHITE BMS FM DALI-2 (white, similar to RAL 9010)	EP10423208	360°	Ø 8 m	RM	16	sending values		1			1		IP20	Ø 94, H 76		
PD-FLAT 360/8 LARGE ROUND WHITE BMS FM DALI-2 (white, similar to RAL 9010)	EP10423215	360°	Ø 8 m	RM	16	sending values		1			1		IP20	Ø 104, H 76		
FLAT MINI series																
DALI																
PD-FLAT 360i/6 mini DALI (opal frosted)	EP10427503	360°	Ø 6 m	RM	1	switching/ dimming	•		60 s...240 min	2*	•		IP55	Ø 33, H 48	•	

Product group / product name	Item no.	Product description	Dimensions (mm)	Core portfolio	New
Accessories					
Remote control					
ESY-Pen	EP10425356	ESY-Pen and ESY-App, two tools for every task: (1) Parameterisation, (2) remote control, (3) light measurement, (4) project management	L 166, W 24, H 21,5	•	★
REMOTE CONTROL PDi/USER	EM10425547	IR remote control for end users of presence detectors	L 100, W 50, H 9	•	
Actuator					
ACTUATOR FULL AUTO C3 DALI	EP10427473	Modul for the conversion of bus commands from the ESYLUX DALI presence detectors and other ELC light controls into switching signals (Full automation)	L 45, W 45, H 24	•	
ACTUATOR SEMI AUTO C4 DALI	EP10427480	Modul for the conversion of bus commands from the ESYLUX DALI presence detectors and other ELC light controls into switching signals (Semi-automatic)	L 45, W 45, H 24	•	
Push button					
PUSH BUTTON x2 DALI-2 WH	EP10431609	DALI-2 2-way push button	L 71, W 71, H/D 21,5	•	★
PUSH BUTTON x4 DALI-2 WH	EP10431616	DALI-2 4-way push button	L 71, W 71, H/D 21,5	•	★
PUSH BUTTON x6 DALI-2 WH	EP10431623	DALI-2 6-way push button	L 71, W 71, H/D 21,5	•	★
PUSH BUTTON x8 DALI-2 WH	EP10431630	DALI-2 8-way push button	L 71, W 71, H/D 21,5	•	★

You can find additional accessories by visiting http://www.esylux.com.

Whether you have DALI-2, DALI or a different control system, you can easily find the right product for your solution by using the product filter on the ESYLUX website!

* With ACTUATOR C3/C4 DALI switching actuator as optional accessory.
FM Flush mounting
RM Recessed mounting

PRODUCT LIST

DALI CEILING LIGHTS

Product group / product name	Item no.	Light colour (IEC 1231)	Luminous flux (light)	Rated output P	Luminous efficacy	Unified Glare Rating	Glare suppression	Diffusor	Protection type	DALI	Sensor	Energy efficiency class	Dimensions (mm)	Core portfolio	New
CELINE-2 series															
2700 – 6500 K / 600 x 600 mm / 30 W															
CELINE-2 PNL 600 DDP OP 3800 8TW IP20 ELC (white, similar to RAL 9016)	EQ10132322	8TW	3800 lm	33 W	115 lm/W	≤ 19	DDP	OP	IP20	with driver set			L 596, W 596, H 65		★
CELINE-2 PNL 600 DDP TR 4200 8TW IP20 ELC (white, similar to RAL 9016)	EQ10132353	8TW	4200 lm	33 W	127 lm/W	≤ 19	DDP	TR	IP20	with driver set			L 596, W 596, H 65		★
2700 – 6500 K / 625 x 625 mm / 30 W															
CELINE-2 PNL 625 DDP OP 3800 8TW IP20 ELC (white, similar to RAL 9016)	EQ10132384	8TW	3800 lm	33 W	115 lm/W	≤ 19	DDP	OP	IP20	with driver set			L 620, W 620, H 65		★
CELINE-2 PNL 625 DDP TR 4200 8TW IP20 ELC (white, similar to RAL 9016)	EQ10132414	8TW	4200 lm	33 W	127 lm/W	≤ 19	DDP	TR	IP20	with driver set			L 620, W 620, H 65		★
3000 K / 600 x 600 mm / 30 W															
CELINE-2 PNL 600 DDP OP 3600 830 IP20 ELC (white, similar to RAL 9016)	EQ10132308	830	3600 lm	33 W	109 lm/W	≤ 19	DDP	OP	IP20	with driver set			L 596, W 596, H 65		★
CELINE-2 PNL 600 DDP TR 4000 830 IP20 ELC (white, similar to RAL 9016)	EQ10132339	830	4000 lm	33 W	121 lm/W	≤ 19	DDP	TR	IP20	with driver set			L 596, W 596, H 65		★
3000 K / 625 x 625 mm / 30 W															
CELINE-2 PNL 625 DDP OP 3600 830 IP20 ELC (white, similar to RAL 9016)	EQ10132360	830	3600 lm	33 W	109 lm/W	≤ 19	DDP	OP	IP20	with driver set			L 620, W 620, H 65		★
CELINE-2 PNL 625 DDP TR 4000 830 IP20 ELC (white, similar to RAL 9016)	EQ10132391	830	4000 lm	33 W	121 lm/W	≤ 19	DDP	TR	IP20	with driver set			L 620, W 620, H 65		★
4000 K / 600 x 600 mm / 30 W															
CELINE-2 PNL 600 DDP OP 4000 840 IP20 ELC (white, similar to RAL 9016)	EQ10132315	840	4000 lm	33 W	121 lm/W	≤ 19	DDP	OP	IP20	with driver set			L 596, W 596, H 65		★
CELINE-2 PNL 600 DDP TR 4400 840 IP20 ELC (white, similar to RAL 9016)	EQ10132346	840	4400 lm	33 W	133 lm/W	≤ 19	DDP	TR	IP20	with driver set			L 596, W 596, H 65		★
4000 K / 625 x 625 mm / 30 W															
CELINE-2 PNL 625 DDP OP 4000 840 IP20 ELC (white, similar to RAL 9016)	EQ10132377	840	4000 lm	33 W	121 lm/W	≤ 19	DDP	OP	IP20	with driver set			L 620, W 620, H 65		★
CELINE-2 PNL 625 DDP TR 4400 840 IP20 ELC (white, similar to RAL 9016)	EQ10132407	840	4400 lm	33 W	133 lm/W	≤ 19	DDP	TR	IP20	with driver set			L 620, W 620, H 65		★
STELLA series															
4000 K / 600 x 600 mm / 33 W															
STELLA PNL 600 DDP OP 3800 840 IP20 DALI (white, similar to RAL 9003)	EQ10600234	840	3800 lm	37 W	102 lm/W	≤ 19	DDP	OP	IP20	•		F	L 595, W 595, H 11	•	
4000 K / 625 x 625 mm / 33 W															
STELLA PNL 625 DDP OP 3800 840 IP20 DALI (white, similar to RAL 9003)	EQ10600289	840	3850 lm	36 W	106 lm/W	≤ 19	DDP	OP	IP20	•		E	L 620, W 620, H 11	•	
ELSA-2 series															
3000 K / Ø 68 mm / 5 W / 100°															
ELSA-2 DL 68 OP 100° 500 830 DALI WH (white, similar to RAL 9003)	EO10298905	830	500 lm	6.5 W	76 lm/W	≤ 30		OP	IP44	•		F	Ø 98, H 45	•	★
4000 K / Ø 68 mm / 5 W / 100°															
ELSA-2 DL 68 OP 100° 500 840 DALI WH (white, similar to RAL 9003)	EO10298912	840	500 lm	6.5 W	76 lm/W	≤ 30		OP	IP44	•		F	Ø 98, H 45	•	★
3000 K / Ø 165 mm / 9 W / 110°															
ELSA-2 DL 165 OP 110° 900 830 DALI WH (white, similar to RAL 9003)	EO10298929	830	900 lm	9.5 W	94 lm/W	≤ 25		OP	IP44	•		E	Ø 180, H 25	•	★

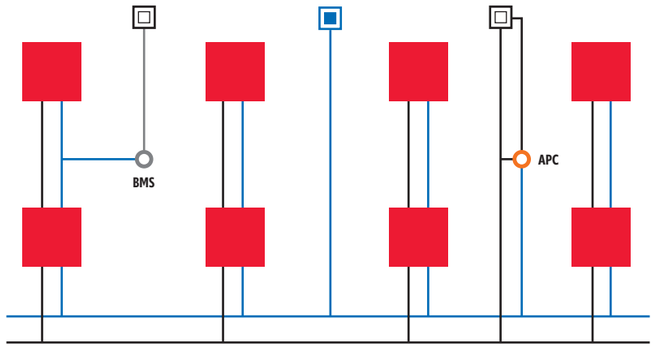
Product group / product name	Item no.	Light colour (IEC 1231)	Luminous flux (light)	Rated output P	Luminous efficacy	Unified Glare Rating	Glare suppression	Diffusor	Protection type	DALI	Sensor	Energy efficiency class	Dimensions (mm)	Core portfolio	New
4000 K / Ø 165 mm / 9 W / 110°															
ELSA-2 DL 165 OP 110° 900 840 DALI WH (white, similar to RAL 9003)	EO10298936	840	900 lm	9.5 W	94 lm/W	≤ 25		OP	IP44	•		F	Ø 180, H 25	•	★
3000 K / Ø 225 mm / 18 W / 110°															
ELSA-2 DL 225 OP 110° 1800 830 DALI WH (white, similar to RAL 9003)	EO10298943	830	1700 lm	19 W	89 lm/W	≤ 25		OP	IP44	•		F	Ø 240, H 25	•	★
4000 K / Ø 225 mm / 18 W / 110°															
ELSA-2 DL 225 OP 110° 1800 840 DALI WH (white, similar to RAL 9003)	EO10298950	840	1800 lm	19 W	94 lm/W	≤ 25		OP	IP44	•		F	Ø 240, H 25	•	★

Product group / product name	Item no.	Product description	Dimensions (mm)	Core portfolio	New
Accessories					
Remote control					
ESY-Pen	EP10425356	ESY-Pen and ESY-App, two tools for every task: (1) Parameterisation, (2) remote control, (3) light measurement, (4) project management	L 166, W 24, H 21.5	•	★

You can find additional accessories by visiting www.esylux.com.

CONNECTION DIAGRAM FOR DECENTRALISED, CROSS-ROOM CONTROL

- Lights
- BMS presence detectors
- APC presence detectors
- Conventional buttons
- DALI-2 Push button
- 230-V, non-floating
- DALI bus
- 2-wire, potential-free



COMPATIBILITY NOTE COMPACT APC DALI-2

All DALI control gears (ballasts, drivers) in the current ESYLUX portfolio are compatible with the APC presence detectors!

- Connected devices from third-party manufacturers such as control gears, input devices, switching actuators must be DALI-2-certified
- Also compatible are control gears from third-party manufacturers (device type 6, part -207) if they comply with IEC 62386-102-2009-06 and the version number of this IEC as well as the GTIN or a "0" are entered in their firmware

PROJECT ACCESS AT ALL TIMES

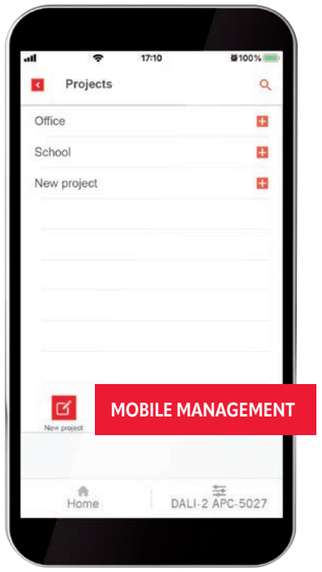
ESY-APP: MAKING PROJECT CONFIGURATION, MOBILE MANAGEMENT AND DOCUMENTATION EASY

The ESY-App not only helps users to easily configure DALI-2 solutions from ESYLUX, it also acts as a personal project library that installers and planners can access at any time. You can create projects in your office and then easily transfer the configuration to the construction site as needed. The project report is available as a PDF and can be used to provide technical specifications.

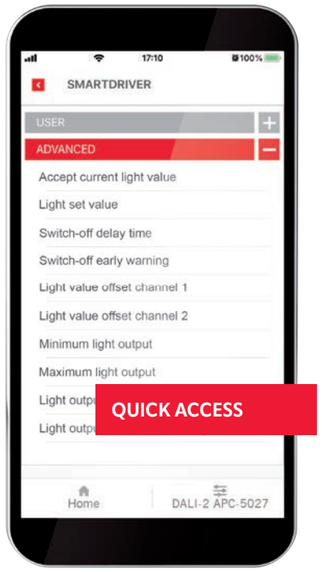
ESY CONTROL

Bluetooth control for Android and iOS.

- **Easily create a project with an individual description**
- **Create up to 64 floors, each with up to 64 rooms and up to 64 devices per room**
- **Select and configure products with fewer steps**
- **Automatically save the project with all settings stored**
- **Send project documentation as a PDF file and print it off**



With the ESY-App, you have access to your project library at all times! You can create projects in your office and then easily transfer the configuration to the construction site as needed.



Previously implemented configurations can be retrieved and individually adjusted.

The project documentation is integrated into a PDF report that you can email and print off as required.

MOBILE PROJECT MANAGEMENT: ESY-APP

USING THE ESY-PEN IN INFRARED SOLUTIONS

For intelligent automation and lighting solutions from ESYLUX without a built-in Bluetooth module (such as DALI Broadcast presence detectors), you will also need an ESY-Pen that acts as a bridge to the infrared presence detectors to transfer parameters.

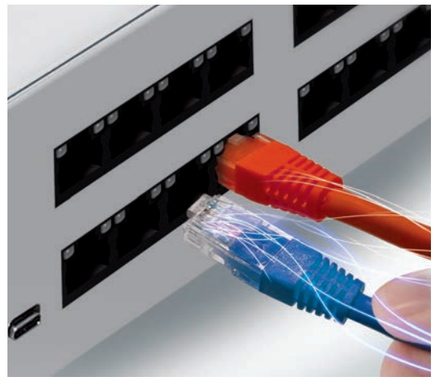
LIGHTS VIA PLUG-AND-PLAY

Advantages of system lights with ESYLUX Light Control

- Simple, error-resistant installation, grouping, scaling and networking via plug-and-play
- Ready for use immediately
- Energy-efficient Human Centric Lighting for improved vitality, concentration and health
- Alternatively with fixed light colour and presence and daylight dependent constant light control
- Cost-effective lighting solution for standard-compliant and future-proof modernisation
- Option for a built-in KNX module to simplify KNX system integration without a separate gateway

PLUG-AND-PLAY

ELC SYSTEM LIGHTS FOR ROOM-BY-ROOM MODERNISATION



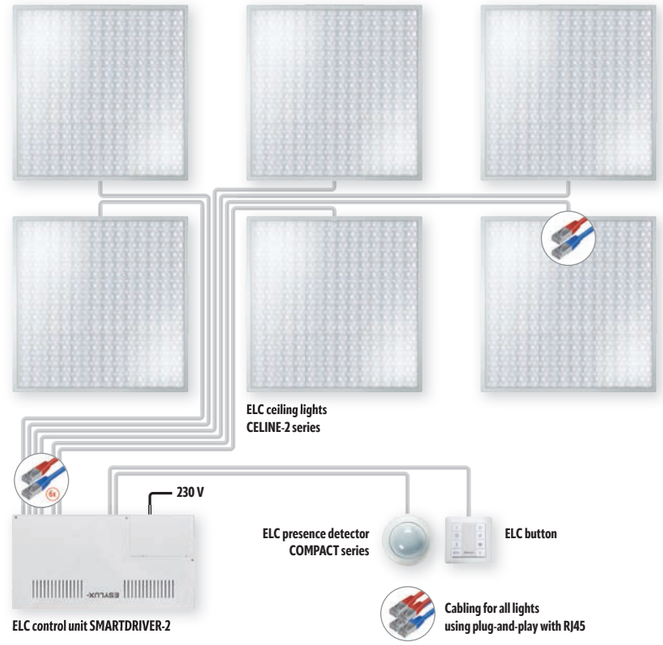
ELC lighting systems are a ready-to-install integrated solution, so they can be freely collated and are also available as a preconfigured, ready-to-install set. For example as a Quadro-Set for standard offices measuring up to 20 m².

ELC lighting systems use the plug-and-play principle to combine compatible components comprising ELC main lighting, ELC control unit, ELC sensor system and ELC wiring. The ELC button is available as an optional accessory.

System lights with ESYLUX Light Control ELC offer a high-quality integrated solution for implementing intelligently controlled lighting in rooms. The systems combine ELC ceiling lights, ELC presence detectors, ELC control units, cabling and accessories and can be installed via plug-and-play. They can be used immediately without any programming and enable rapid modernisation, even in ongoing operation.

GROUPING, SCALING AND NETWORKING VIA PLUG CONNECTION

They are grouped, scaled and networked using a plug-and-play process. Configuration, time, integration and control functions also allow a flexible design for every application situation. In addition, control outputs are available for conventional DALI lights – and DALI actuators from ESYLUX enable additional devices to be integrated!



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For delivery times and further information on our products, please refer to our website.

 22.02.2024