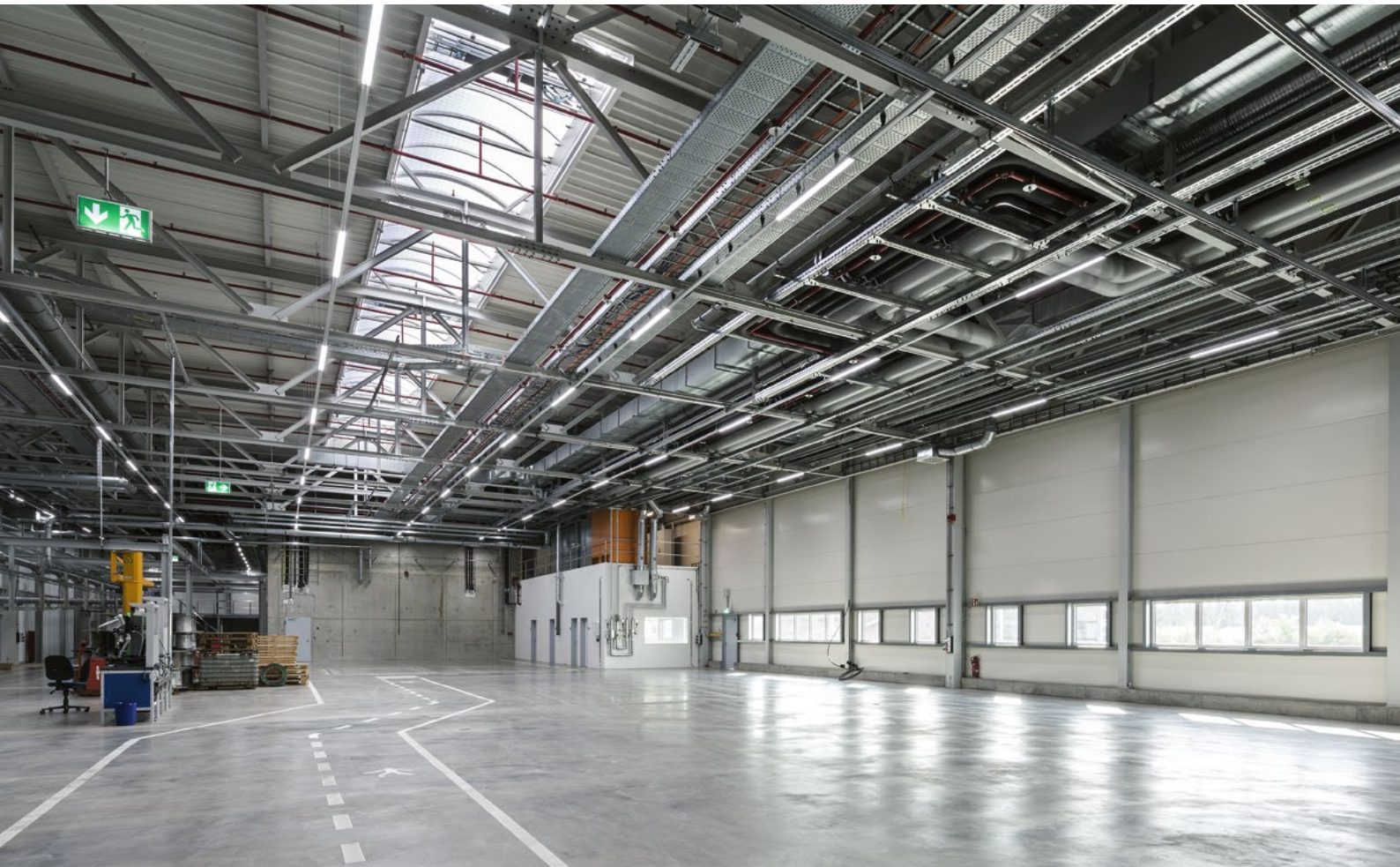


APCON[®] EASY BLE

Lighting control solutions for the LINIA continuous-row lighting system for long distances



RIDI GROUP



APCON EASY
BLE

Lighting control solutions
based on the established
Casambi system



CASAMBI

APCON EASY BLE, the radio-based and hybrid lighting control system when additional cables for switching and dimming the lighting are not possible or not desired. Depending on the application, it is also possible to mix radio and cable, i.e. hybrid solutions. In addition to simple switching and dimming as well as daylight and presence-dependent lighting control, the system offers a wide range of functional options.

Coloured light controls such as RGB, RGBW, Tunable White and circadian daylight sequences (Human Centric Lighting – HCL) are possible. A wide range of lighting control components are available for this purpose, which can be conveniently configured and operated using a smartphone or tablet app.



Hybridbox

Simple complexity clear and flexible

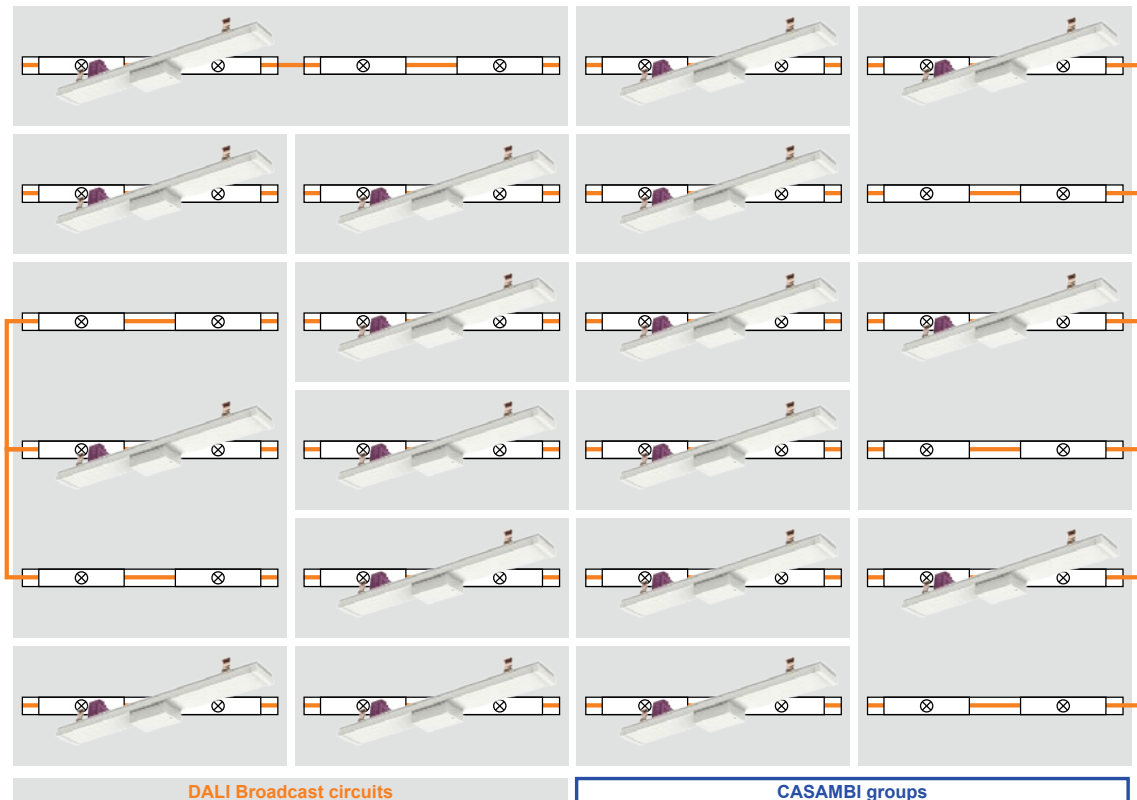
Clustering

With the APCON VL2MF HYBRIDBOX, standard DALI gear trays from the LINIA continuous-row lighting system can be combined into a cluster, i.e. an APCON EASY BLE/ Casambi address, making extensive lighting solutions clearer and enabling intelligent control and monitoring – that is HYBRIDBOX clustering. The smaller the grid of the individual clusters planned, the greater the flexibility for later regrouping or reutilisation.

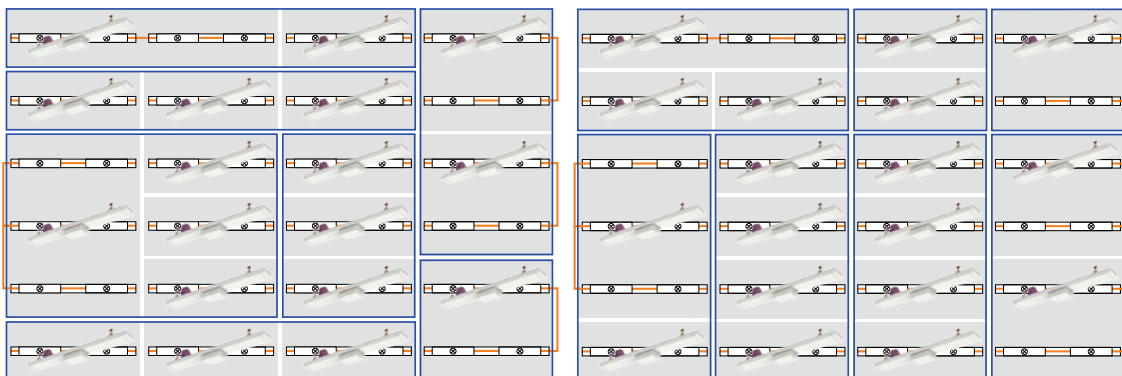
The DALI gear trays are therefore operated behind the HYBRIDBOX in broadcast mode, meaning they all behave in the same way. This enables fast commissioning and simple maintenance. No complicated addressing and grouping is required for extensions or after replacing a device carrier or driver.

The HYBRIDBOXES, i.e. the clusters of device carriers, can in turn be combined into different groups and controlled and monitored together. In the event of a change of use, these groups can be dissolved again and rearranged according to the current requirements.

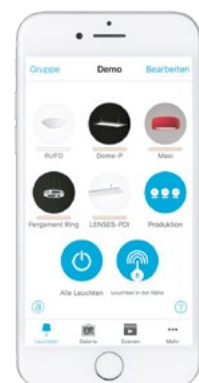
Cluster connection sketch:



Grouping Examples:



- Particularly suitable for refurbishments
- Connection of standard DALI gear trays and DALI gear trays for coloured light control
- Simple planning
- Maintenance-friendly broadcast operation of the luminaires for simple commissioning
- Wide range of functions for a variety of applications
- Based on the established Casambi radio/mesh system



Control elements

Ease of use for every requirement

APCON EASY BLE Control elements

From simple push-button couplers for connecting a push-button to wireless switch-inputs and a convenient display – the right solution for every requirement.



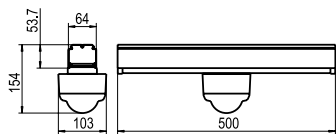
For every application
reliable detection

APCON EASY BLE

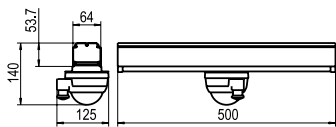
VL2MF – Sensor module inserts

VL2MF gear tray with Bluetooth Low Energy / BLE light and presence sensor for mounting on trunking. Can optionally be used as a presence sensor and/or as a light sensor in a Casambi network. A maximum of 32 connected DALI gear trays can be controlled directly with the master sensor via the integrated DALI-2 interface in broadcast mode (all luminaires behave in the same way). The extension sensors are not equipped with a DALI-2 interface, but have the same functionality and are also used to extend the detection field of the master sensor. Configurable via Casambi app. Gear tray made of extruded aluminium profile, powder-coated, white (similar to RAL 9016), silver (-SI) or black (-SW).

Execution & detection range B



Execution & detection range C







	1	2	3
↑ [m]	2,0	2,5	3,0
Ø [m]	17,0	24,0	29,0
Ø [m]	6,4	8,0	9,6
Ø [m]	5,2	6,4	7,6
Ø [m]	3,5	3,5	3,5
Ø [m]	4,0	4,0	4,0
Ø [m]	4,5	4,5	4,5
Ø [m]	5,0	5,0	5,0
Ø [m]	10,0	10,0	10,0

↑ [m]	l [m]	b [m]
5,0	26,0	18,0
6,0	26,0	18,0
7,0	28,0	19,0
7,5	28,0	19,0
8,0	30,0	19,0
9,0-16,0	30,0	19,0

APCON® EASY BLE COMPONENTS

APCON EASY BLE – Sensor modules:








Figure	Prod. code	Sensor designation	Sensor version – interface	Sensor version – type	Capture field	Mounting-height	Function
	2500037	VL2MF-S500-7PD4-DA2-CAS	Casambi/ DALI- Broadcast	Master	B	2–10 m	Daylight and presence-dependent control
	2500038	VL2MF-S500-5PD4-CAS	Casambi	Extension	B	2–10 m	Daylight and presence-dependent control
	2500034	VL2MF-S500-7PD4-DA2-CAS-GH	Casambi/ DALI- Broadcast	Master	C	5–16 m	Daylight and presence-dependent control
	2500033	VL2MF-S500-5PD4-CAS-GH	Casambi	Extension	C	5–16 m	Daylight and presence-dependent control



APCON EASY

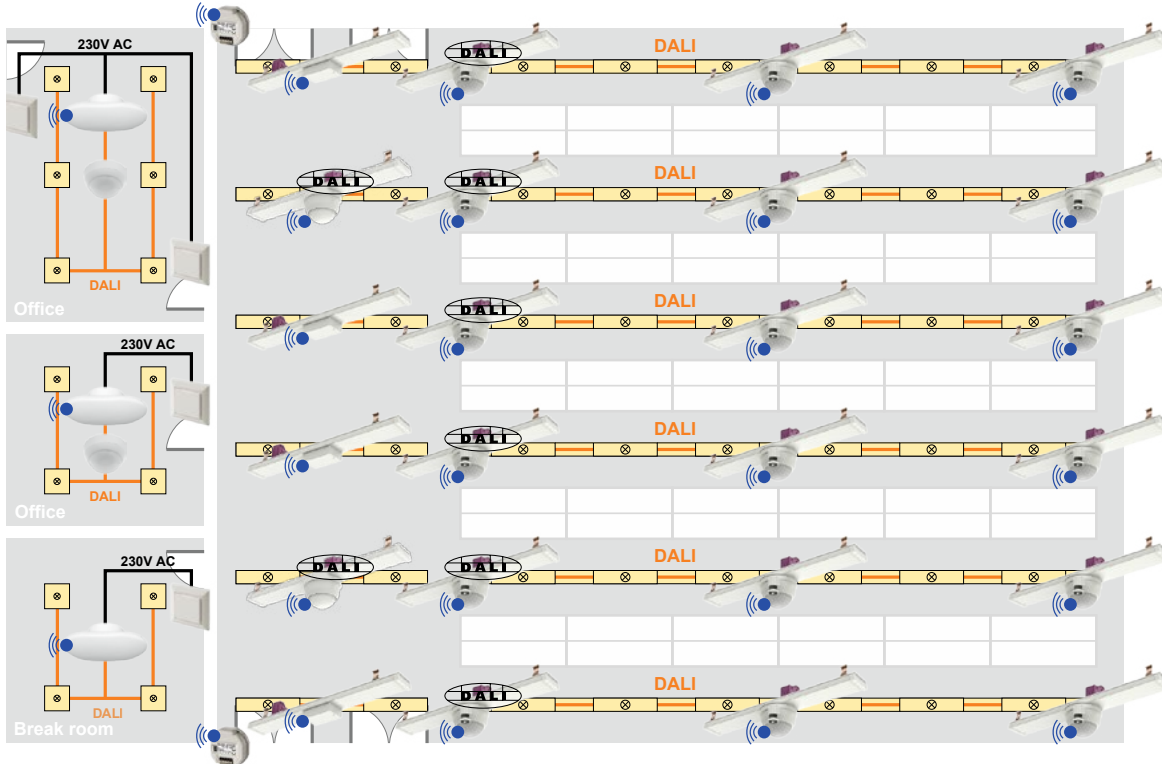
Diversity of components

APCON EASY BLE – Control elements:

Figure	Prod. code	Description	Short description	Category
	2500036	VL2MF-HYBRIDBOX500-7	Module insert hybrid box, 7x, white, IP40, Casambi integrated	System components
	0209024	APCON BLE-COP-A	Bluetooth Low Energy/BLE pushbutton coupler with 4 inputs	Operating and control elements
	0206970	APCON BLE-XPRESSW	Bluetooth Low Energy/BLE button interface, white	Operating and control elements
	0209154	APCON BLE-2SWITCH	Bluetooth Low Energy/BLE dual button	Operating and control elements
	0209509	APCON BLE-DISP4,8W	Bluetooth Low Energy/BLE Display 4,8" white – Wall mounting – 24VDC supply required	Operating and control elements
	0209453	APCON PS24-A	Power supply 24V 130mA – self-sufficient	System components
	0209251	APCON PS24-DR	Power supply 24V 300mA – top hat rail	System components

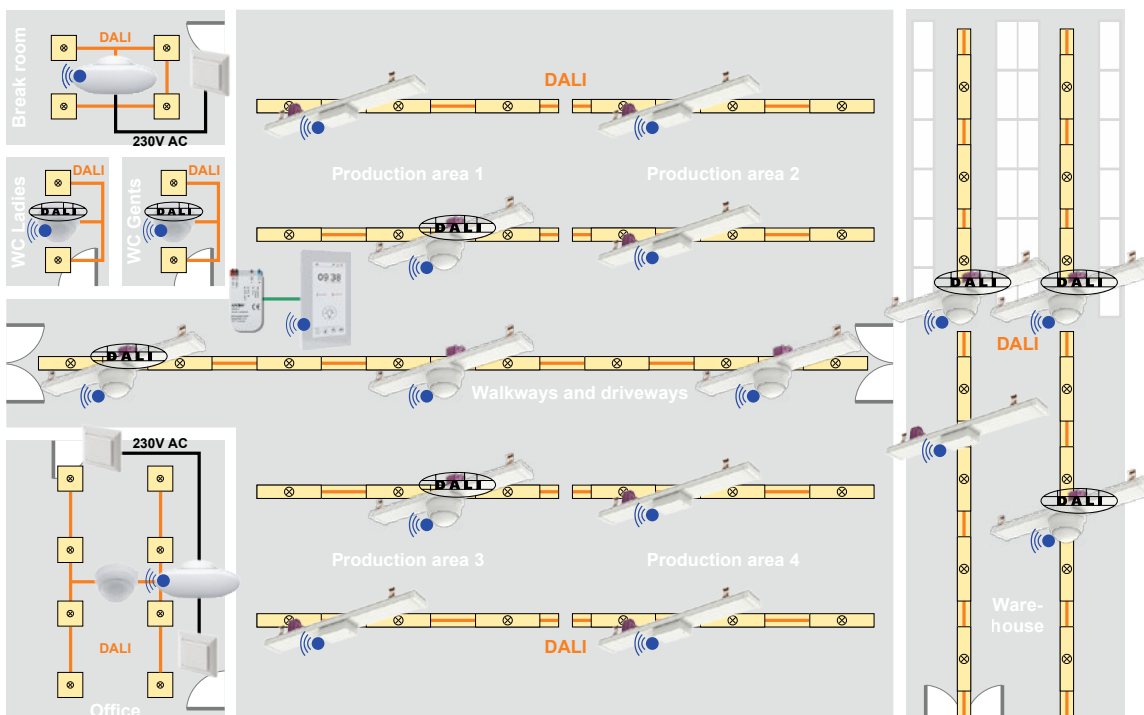
Warehouse

Presence detection with basic level – Schedule control – Individual light values



Industrial hall

Presence detection with basic level – Schedule control according to work shifts – Daylight-dependent control – Individual light values

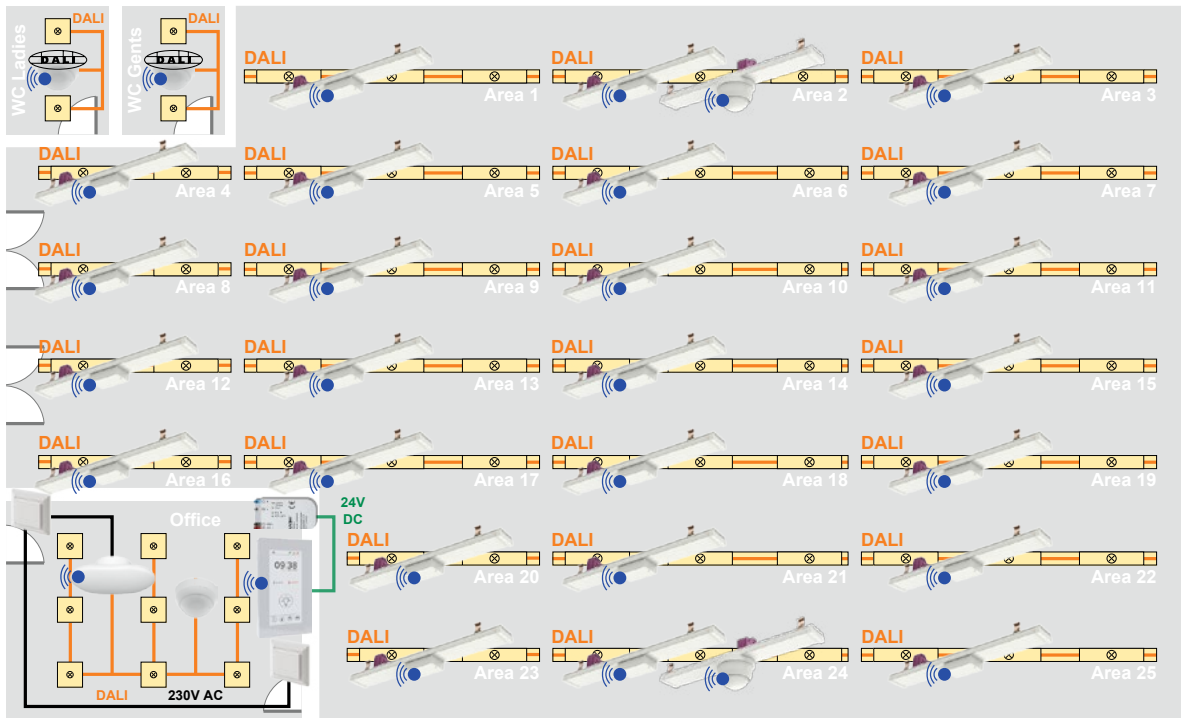


EASY BLE

for many applications

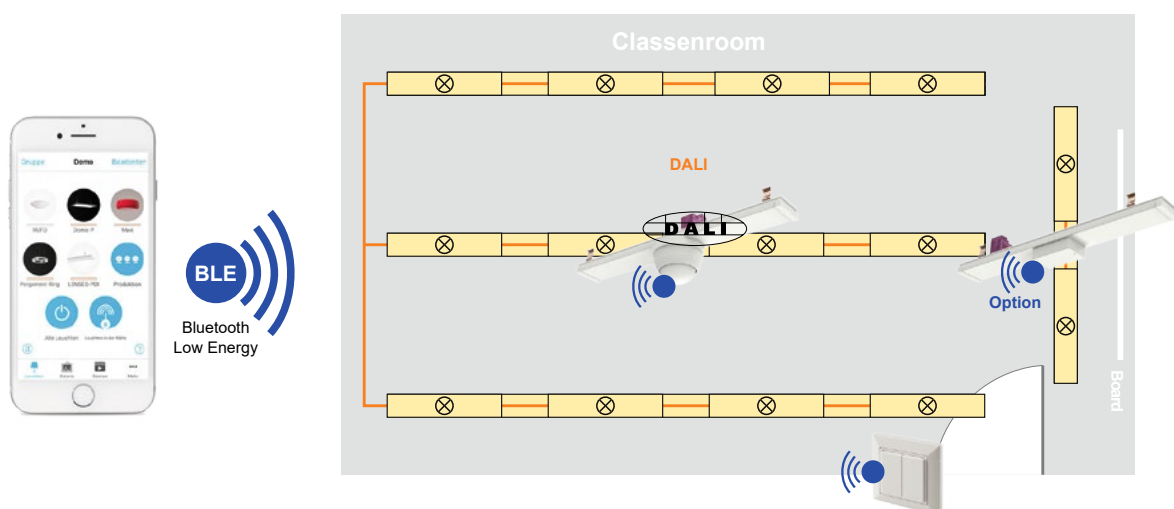
Sales Area

Schedule control according to opening times – Scene control – Individual light values – Daylight-dependent control in some areas



Classroom

Presence detection - Daylight-dependent control - Scene control - Individual light values



The APCON EASY BLE – Casambi wireless lighting control system is based on Bluetooth Low Energy technology. The components are connected to each other in a mesh network so that control signals are passed on within this network. This enables long ranges from participant to participant. In buildings, the range is significantly reduced by e.g. reinforced concrete, support structures, walls and other interfering influences. Care must therefore be taken during planning to ensure that the individual components can mesh/connect well with each other.

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