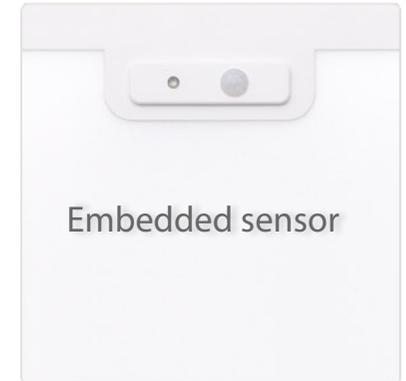


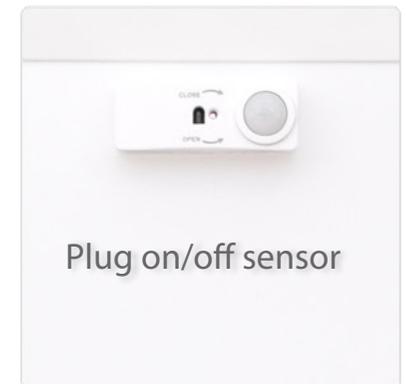


# Smart Panel Light

- Energy saving
- Quick and easy installation, light group function
- Ideal for modernizing existing buildings where no rewiring is needed
- Maintenance and energy consumption reports from anywhere



Embedded sensor



Plug on/off sensor

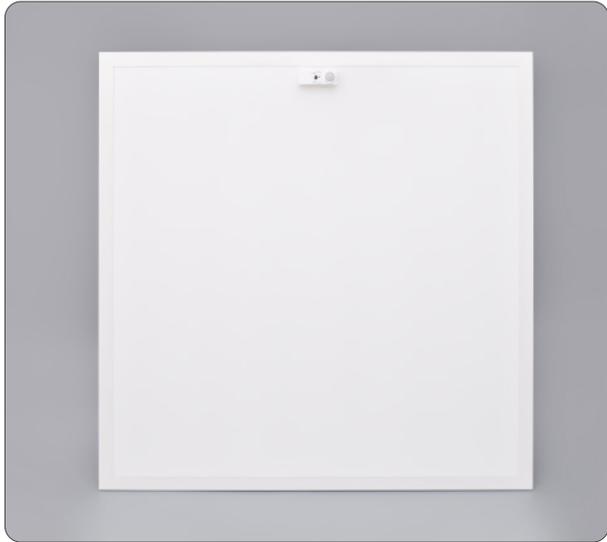
SILVAIR GEBC CASAMBI 



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# Product Details



# Specification



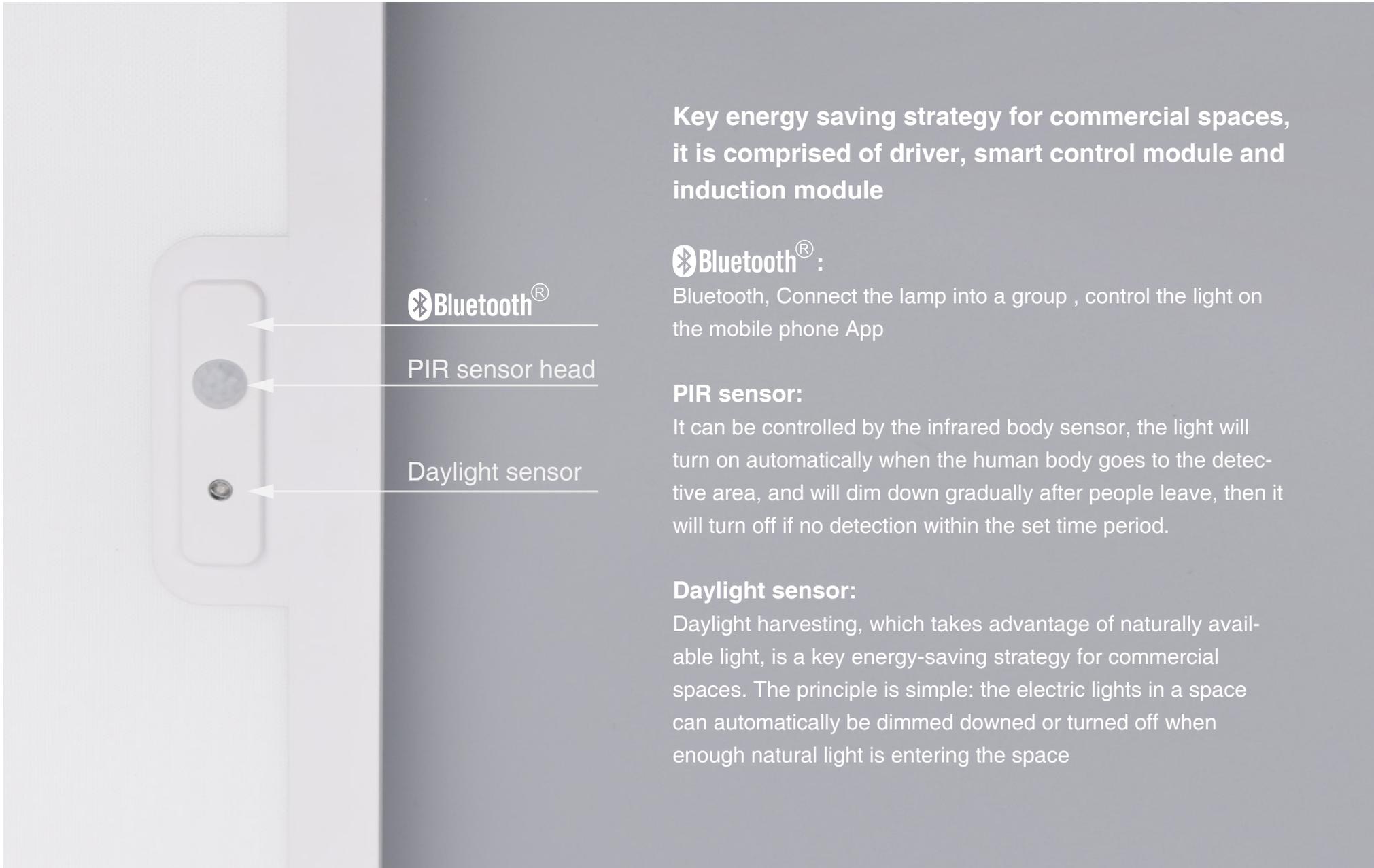
## Embedded sensor:

Product code	Size (mm)	Wattage	Light Efficiency	CCT	UGR	Luminous Flux	Product code	Sensor	Platform
BP-6060-40S1	595*595*30	40W	120lm/W	3000K/ 4000K/ 6500K	<19	4800lm	AGT 0-10V Driver	Bluetooth PIR Sensor Daylight Sensor	
									GEBC
									SILVAIR
									CASAMBI
BP-6060-40S1-3CCT	595*595*30	40W	120lm/W	3000K-6500K	<19	4800lm	AGT 0-10V Driver	Bluetooth PIR Sensor Daylight Sensor	
									GEBC
									SILVAIR
									CASAMBI
BP-6060-40S1-3CCTR	595*595*30	40W	120lm/W	3000K-6500K	<19	4800lm	AGT 0-10V Driver	PIR Sensor Daylight Sensor	Remote Cotrol

## Plug on/off sensor :

Product code	Size (mm)	Wattage	Light Efficiency	CCT	UGR	Luminous Flux	Product code	Sensor	Platform
BP-6060-40S2	595*595*30	40W	120lm/W	3000K/ 4000K/ 6500K	<19	4800lm	AGT 0-10V Driver	Bluetooth PIR Sensor Daylight Sensor	
									GEBC
									SILVAIR

# BLE+PIR sensor+Daylight sensor



Bluetooth®

PIR sensor head

Daylight sensor

**Key energy saving strategy for commercial spaces, it is comprised of driver, smart control module and induction module**

### Bluetooth® :

Bluetooth, Connect the lamp into a group , control the light on the mobile phone App

### PIR sensor:

It can be controlled by the infrared body sensor, the light will turn on automatically when the human body goes to the detective area, and will dim down gradually after people leave, then it will turn off if no detection within the set time period.

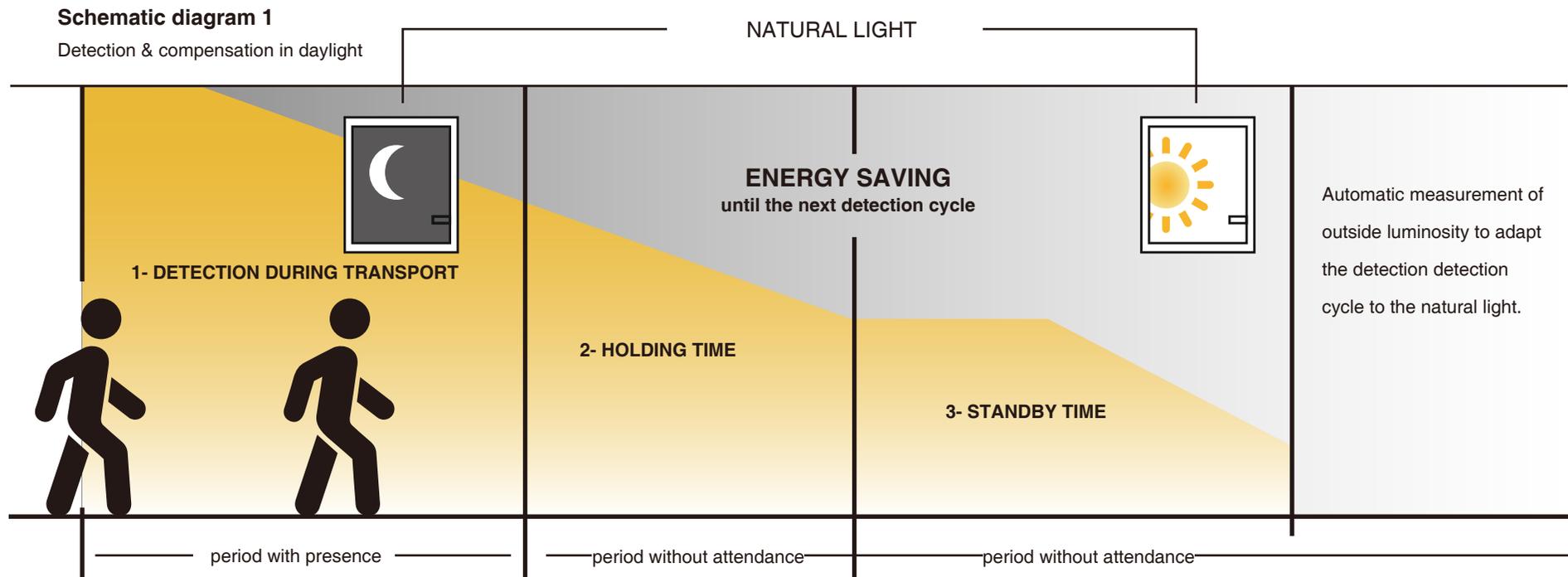
### Daylight sensor:

Daylight harvesting, which takes advantage of naturally available light, is a key energy-saving strategy for commercial spaces. The principle is simple: the electric lights in a space can automatically be dimmed down or turned off when enough natural light is entering the space

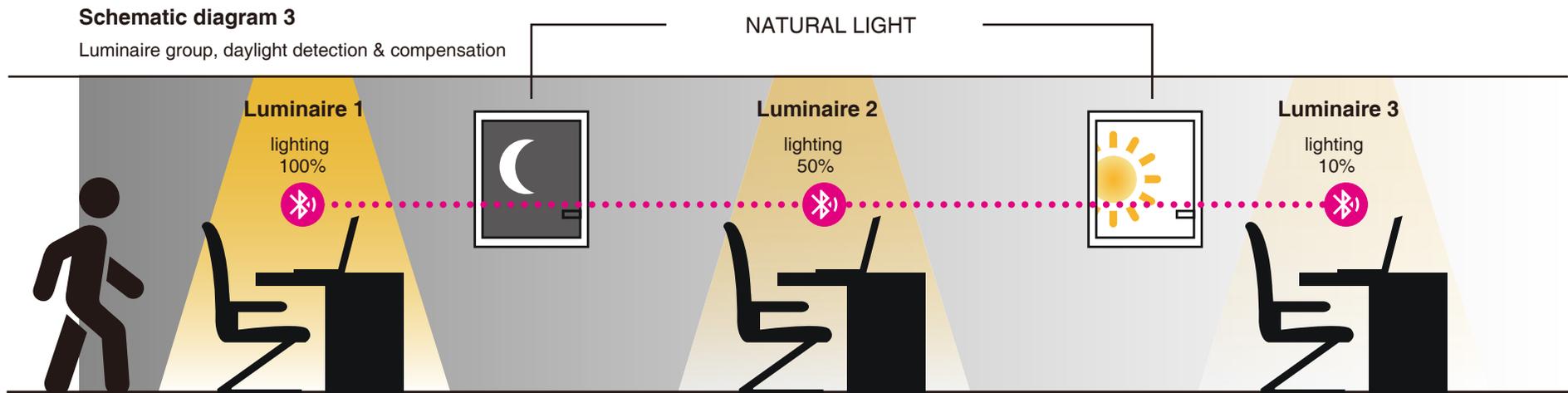
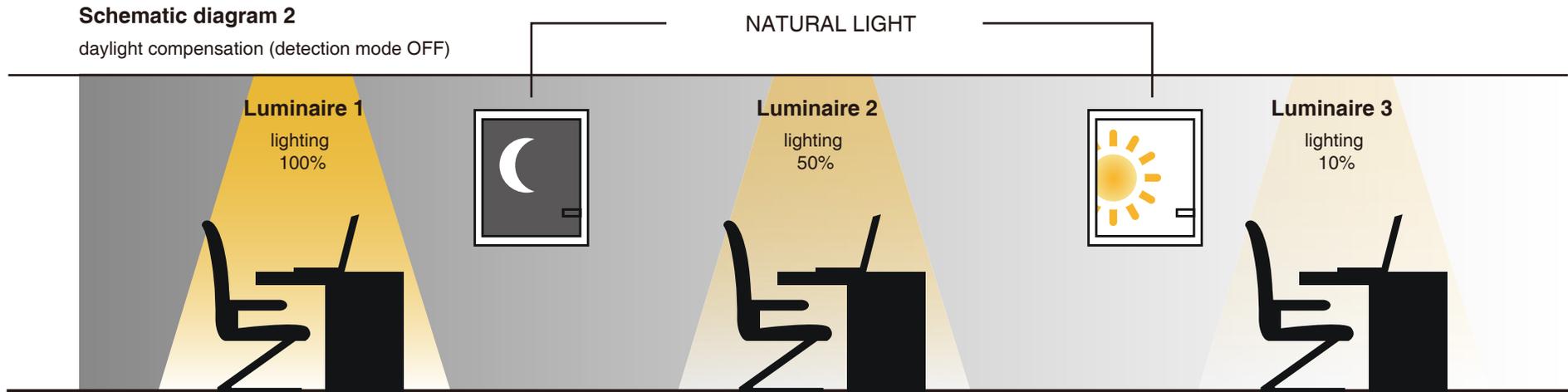
# Presence detection & compensation in daylight

The detection cycle breaks down as follows: 1- the detection period (movement detected) which triggers the luminaire to come on / 2- the hold time, a period without detection with 100% lighting / 3- the standby time, a period without detection with reduced lighting. To avoid lighting up in broad daylight (movement detected), the detection cycle is combined with a luminosity sensor with daylight control, which will decide whether to light up the luminaire according to the natural ambient luminosity.

The principle is quite simple: the luminaire uses its lighting to compensate for the lack of natural light. It instantly adapts its output according to the amount of daylight it is exposed to. So the darker the area, the brighter the luminaire will be. The lighting is dimmed automatically, and the user can set the desired brightness threshold, but cannot change the light intensity afterwards.



# Presence detection & compensation in daylight



The first of the group to detect becomes the master, and switches on the lighting for the entire group of luminaires. The hold time starts when all the detectors in the group no longer detect (absence of presence, see diagram 1).

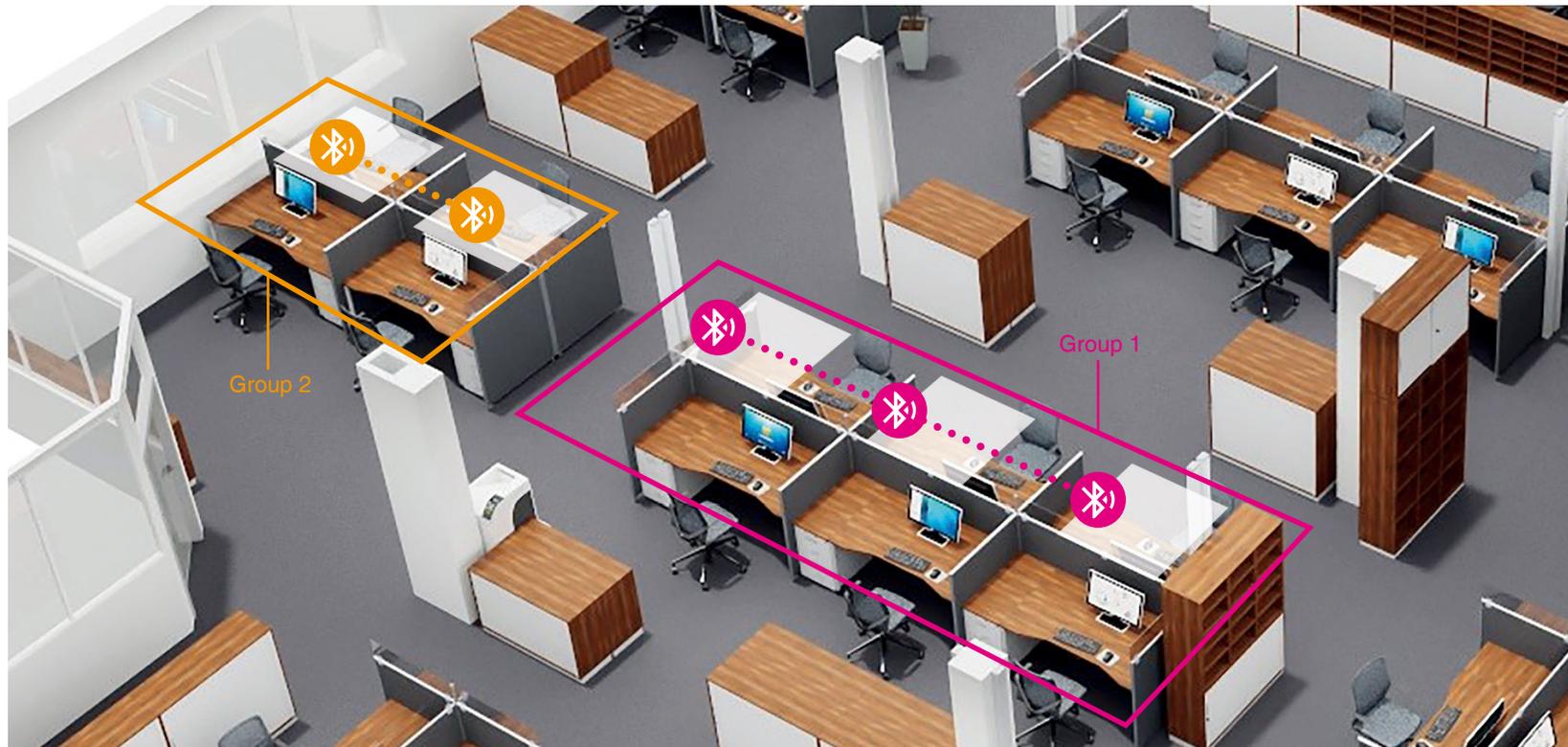
# Presence detection & compensation in daylight



## SMART tile: Bluetooth BLE communication and luminaire group

Bluetooth Low Energy (BLE), or Bluetooth Smart, enables information to be sent, only when necessary, between several luminaires in the same network (here we will use the term "group of luminaires"). The energy consumed is half that of conventional Bluetooth, all at a frequency of 2.4 GHz. When a link or device fails, the information continues to be sent through the other devices in the network.

Using the Bluetooth application on the SMART panel, you can create a group of several luminaires (by zone) that will interact with each other. In the case of presence detection, the luminaire that "detects" a presence will trigger the lighting of all the luminaires in the same group. Conversely, each luminaire manages daylight compensation independently (setting the threshold).



# PIR sensor+Daylight sensor+Tri-level dimming



Press "ON/OFF" button, fixture goes to permanent on or permanent off mode, sensor is disabled.  
\* press "Auto", "Reset" to quit this mode.

One-key memory commissioning

e.g. : setting 50% sensitivity, daylight sensor 100lux, hold time 30s, dim off 1h, dim level 10%,

Steps:

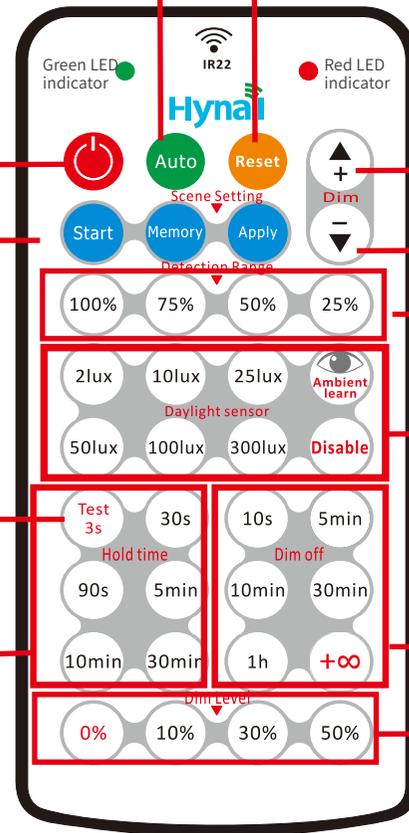
1. Long press "Start" button for 2s till green LED permanent on, then input "50%", "100lux", "30s", "1h", "10%", the green LED will flicker once to indicate the operation success.
2. Press "Memory" button to memorize all settings parameters. Green LED will flicker ONCE to indicate the operation success.
3. Press "Apply" button to copy the same settings to other sensors, point the remote control to the receiving sensor for min. 2s. Red LED will flicker to indicate the operation success, the receiving sensor

In this mode, when used for on/off control, after motion detected, sensor enters into a cycle of 3s on and 2s off.  
In this mode, when used for tri-level dimming control, after motion detected, sensor enters into

Press the button, the sensor starts to work and all settings remain the same as the latest status before the light was switched on/off.

Press "Reset" button, all settings go back to factory default settings.

\* Factory default settings--  
Sensitivity=100%  
Daylight sensor=disable  
Hold time=90s  
Twilight time=5min  
Twilight level=10%



Press "Power Dim +" button to dim up the power step by step 20%-40%-60%-80%-100%.  
Press "Power Dim -" button to dim down the power step by step 100%-80%-60%-40%-20%.  
5 levels adjustable.

Sensitivity - different level for detection range, 25% is smallest, 100% is biggest detection range (12m mounting height, 16-18m in diameter)  
Choose the desired daylight sensor threshold, e.g.100lux, dim off time 10s: (1) surrounding brightness > 100lux, when the light is off, even though movement, the light is still off; (2) surrounding brightness <100lux, when movement, the light will be on 100%; Press "Disable" button, the daylight sensor will be disabled, the motion sensor will work always, even in daytime.

Ambient learn Press "Ambient learn" button, the latest surrounding luxvalue overwrites previous lux value learned, and set as the daylight threshold. This feature enables the fixture to function well in any real application circumstance.

Choose the desired dim off time. If choose + ∞, the light will not be turned off, and will keep dimming based on dim level.

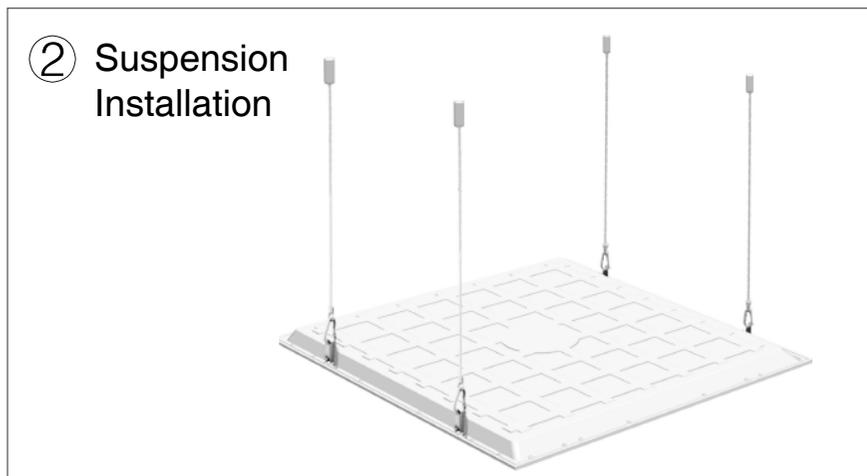
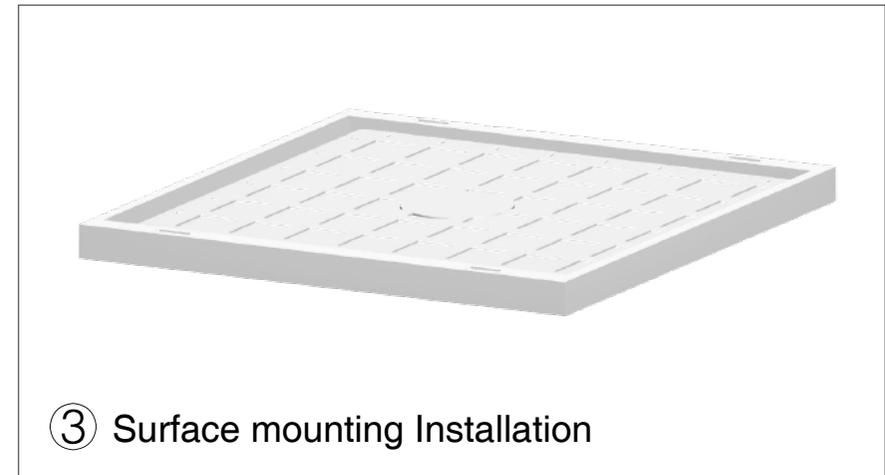
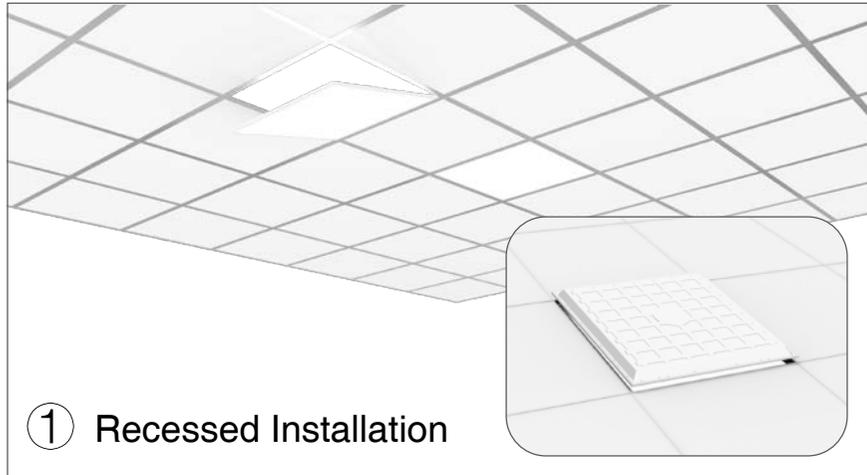
Choose the desired dim level, if you choose 0%, the sensor will be only on/off sensor, only on / off function.

Hold-time: the time period to keep the lamp on 100% after motion detected.

Note:  
The lamp flickers once when sensor successfully receives RC signal after pressing any buttons except for "APPLY".

When "twilight level" set at 0%, it becomes ON/OFF control.

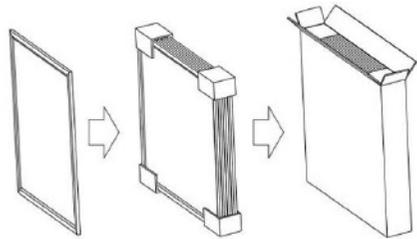
# Installation



# Package

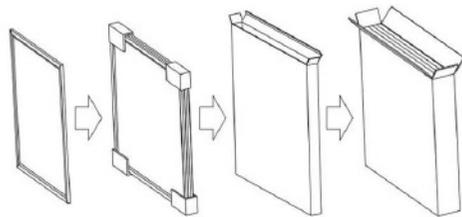


## EPE Package



package Way	Model	600x600	620x620	300x1200
EPE Package	QTY/CTN	6	6	6
	Dimmension(mm)	660*190*670	680*220*690	1225*202*365
	G.W(kg)	12	12.5	12.3
	QTY/20GP	2000	1600	1800
	QTY/40HQ	4800	3950	4500

## Innerbox Package



package Way	Model	600x600	620x620	300x1200
Innerbox Package	QTY/CTN	5	5	5
	Dimmension(mm)	620*210*635	645*210*660	1240*220*320
	G.W(kg)	11.8	12	13
	QTY/20GP	1700	1550	1600
	QTY/40HQ	4100	3800	3900



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