

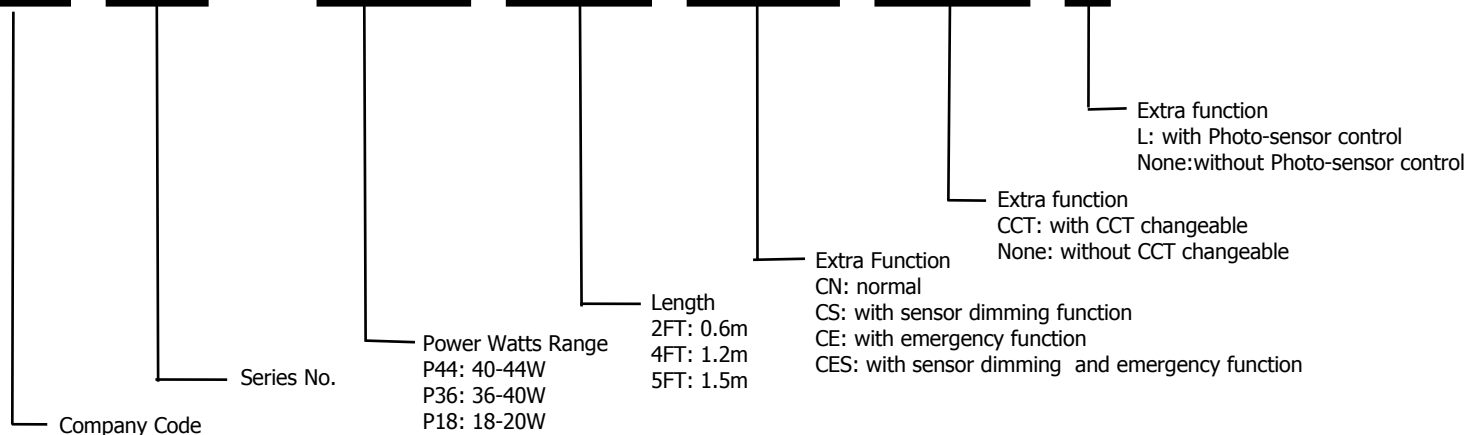
Important safeguard measurements

Precautions:

1. Please comply with the laws and regulations of associated countries and regions when installing this luminaire.
2. Please turn off the power before installation or maintenance.
3. Proper grounding is required to ensure safety.
4. In order to prevent the risk of electric shock or fire, installation must be carried on professional operators with required electrical knowledge.
5. Please wear gloves before installing luminaires, avoiding injury.
6. Please contact with manufacturer/agent immediately if any damage happened during transportation.
7. Please carefully reading installation instruction and checking if no accessories is missing. Then following instruction steps to install the luminaire.
8. If smoke or spark are found during using, please immediately turn off the power and notify relevant personnel.
9. **INGESTION HAZARD:** If model contains a button cell or coin battery, please keep new and used batteries OUT OF REACH of CHILDREN. Death or serious injury can occur if ingested. Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.
10. Emergency luminaire should be installed and powered within a reasonable time frame after purchased(within 6 months) as longtime storage without recharging may shorten inside backup battery lifespan, even damage battery.
11. Leaving emergency luminaire backup battery in fully discharged state for long time will damage battery.

Model Description:

ZL-PSBL P36-4FT-CES-CCT-L



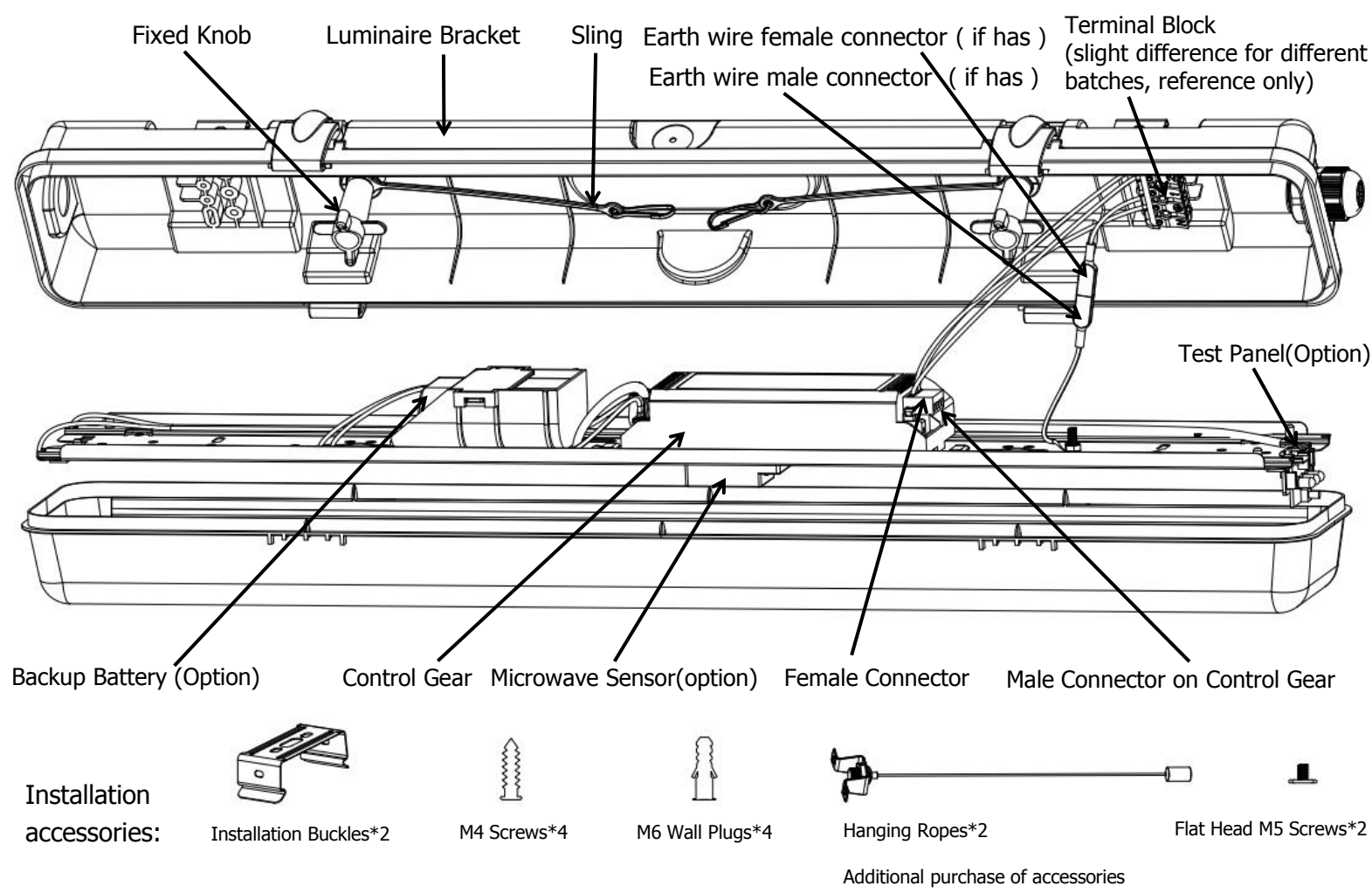
Optional Functions(See Model Description):

1. Sensor dimming function
2. Emergency function
3. Color temperature changeable function

Only luminaires with "CS" or "CES" in the model number are equipped with Microwave Sensor.

Only luminaires with "CE" or "CES" in the model number are equipped with Backup battery and Test panel.

Only luminaires with "CCT" in the model number are equipped with DIP Switch.

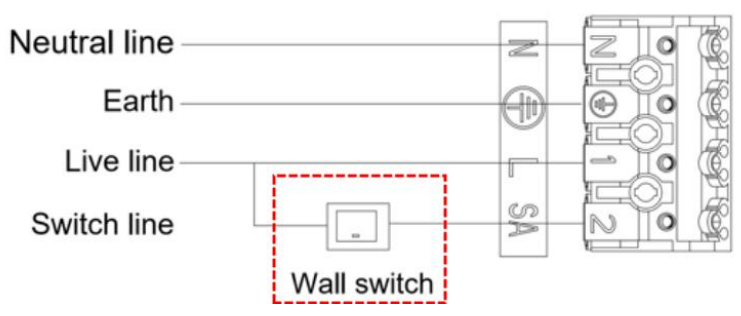


Wiring instruction:

Live: L Neutral: N Switch Active: SA(for Emergency only) Earth:



Non-Emergency Luminaire wiring



Emergency Luminaire wiring ①
(Light will be control by external wall switch)

Installation accessories : Short Wire



(Short-circuit L and SA with provided short wire)
Emergency Luminaire wiring ②
(Light will be 7 x 24h ON)

Installation instruction:

Two installation methods: Surface Mount and Suspend install.

(Please select the most suitable installation method according to your requirement).

1. Surface mount:

Step 1: Open the clips and take off the diffuser(Figure 1).

Step 2: Rotate both fixed knobs on gear tray and disconnect connector on control gear & Earth wire connector (if has), separate gear tray from luminaire bracket (Figure 2,3).

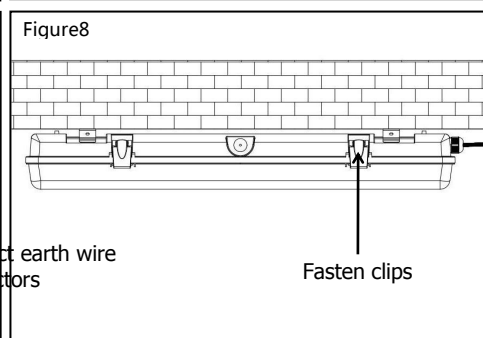
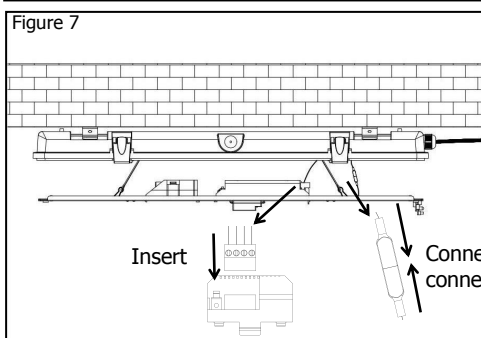
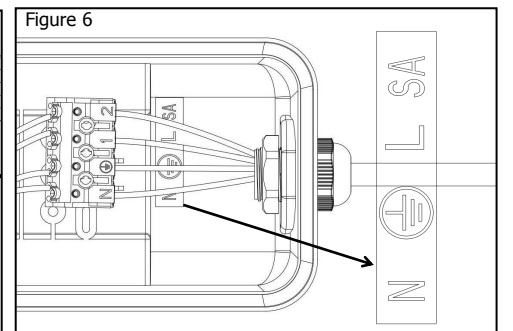
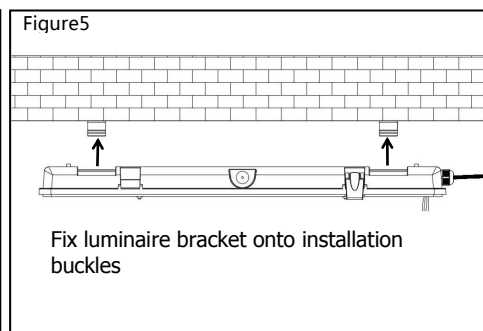
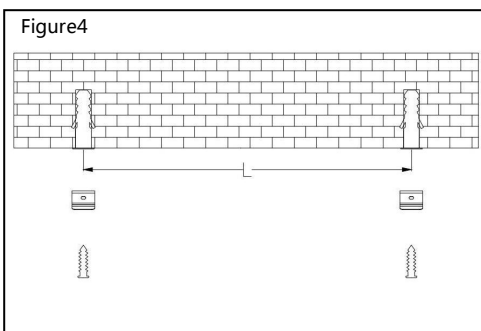
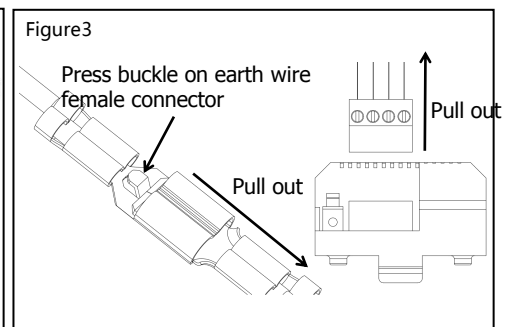
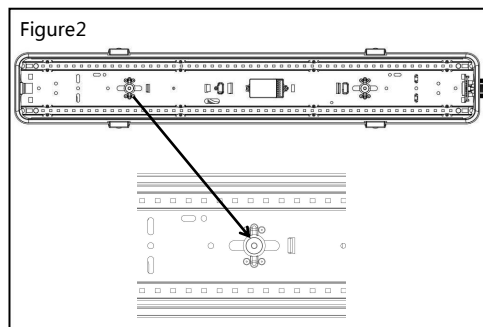
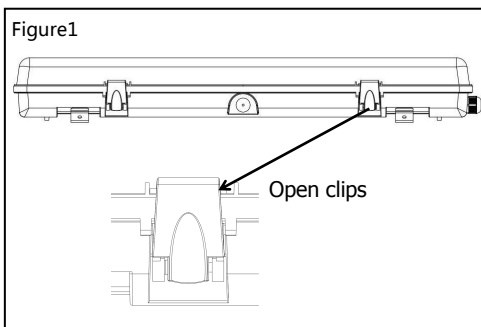
Step 3: Drill holes on the ceiling in the corresponding positions according to fix distance of luminaire bracket, insert M6 wall plugs into the holes, then secure the installation buckles to the ceiling with the provided M4 screws(Figure 4).

Step 4: Pull the power cable into the luminaire bracket from cable entry hole through Gland, then fix the luminaire bracket onto the installation buckles(Figure 5).

Step 5: Connect the power cable to terminal block according to right wires sequence(Figure 6).

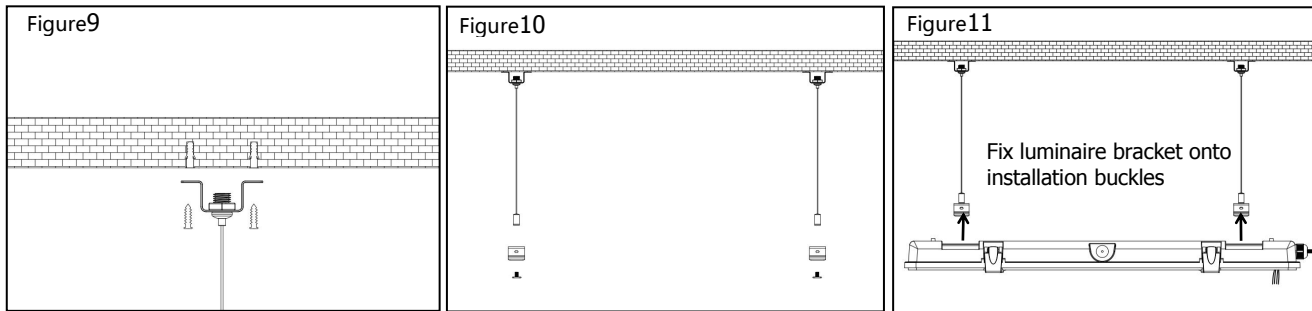
Step 6: Suspend the gear tray with the slings which prefixed, connect the earth wire connectors back(if has) and insert female connector into male connector on control gear(Figure 7).

Step 7: Install the gear tray to luminaire bracket, rotate the fixed knobs to fix gear tray, then install the diffuser back, fasten the clips.(Figure 8)



2. Suspend Mount (Additional purchase of accessories) :

- Step 1: Separate the diffuser and gear tray from the luminaire bracket, refer to the Step 1, 2 of Surface Mount.
- Step 2: Drill $\Phi 6\text{mm}$ holes on the ceiling in the corresponding positions according to disc holes position of hanging rope, insert M6 wall plugs into the holes, then fix hanging rope disc to ceiling with the provided M4 screws(Figure9).
- Step 3: Secure the installation buckles onto hanging rope with provided M4 flat screws(Figure 10).
- Step 4: Pull the power cable into the luminaire bracket from cable entry hole, then install the luminaire bracket onto the buckles(Figure 11).
- Step 5: Refer to the 5, 6, 7 Steps of Surface Mount.



Driver setting:

DIP switch on control gear allows luminaire working under Half Power Mode(Figure 12).

DIP switch at On position: half power Mode.

DIP switch at Off position: full power Mode.

Default: Off position.

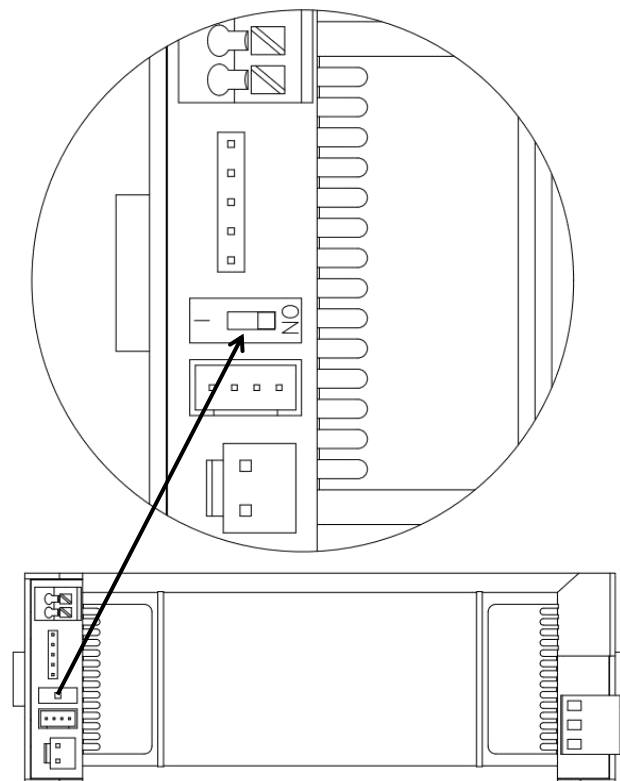


Figure 12

Emergency instruction(Figure 13)

(For Partial Models Only, See Model Description):

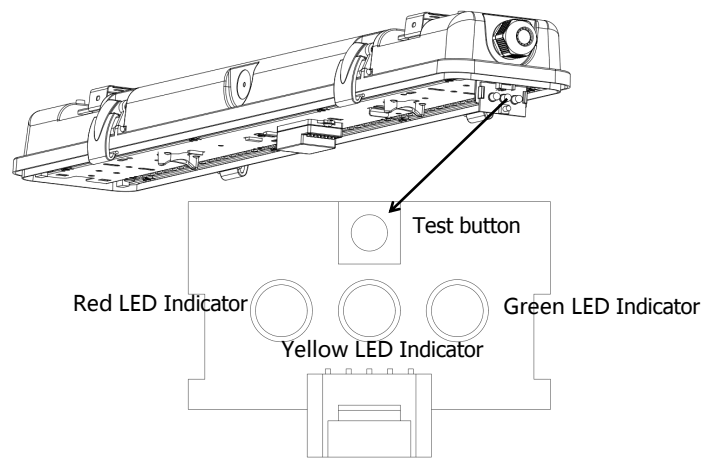


Figure13

1, Green LED Indicator

LED On: Main supply on

LED Off: Main supply off

2, Red LED Indicator

LED On: Battery is in charging

LED Off: Battery was full charged or Main supply off or battery disconnected.

3, Yellow LED Indicator(fault indication)

LED continuously on: indicates work normal.

LED slow flash: indicates self-test carried out recently within 6 days and passed.

LED fast flash: indicates latest self-test carried out recently and failed.

LED off: Main supply off.

1) Slow flash(4 seconds ON, 1 second OFF) indicates self-test carried out within 6 days and self-test passed. This state will keep 6 days after last self-test finished. Then change to continuous on.

2) Fast flash(0.5 second ON, 0.5 second OFF) indicates latest self-test failed. This state will keep until next self-test passed.

4, Simulated emergency testing function:

Press the test button and hold on more than 1.5 seconds, the luminaire will simulate main supply failed and enter into emergency mode. Release test button, the luminaire will back to previous status.

5, Force self-test:

Press the test button and hold on more than 10 seconds,the luminaire will work under self-test mode.

Release test button,the luminaire will back to previous status until self-test finished.Force self-test result will be indicated by Yellow LED indicator.

6, Reset to pre-settings:

(operation with caution for non-specialists, default parameters was set by Parameters ①)

Press the test button 3 times within 3 seconds,three indicators will flash 3 time synchronously and the luminaire enter into default setting mode.Green and Red indicators will flash synchronously.

Flash Pattern as below. Each flash pattern will keep 3 times, if no test button pressed then back to normal mode. If press test button one short time during any flash pattern, it will change to another next flash pattern. Different flash pattern shows different parameters was set.

Flash once(2 seconds ON, 1second OFF):

Parameters ① be reset to: a) disable self-test; b) Time standard 90 minutes; c) Yellow LED indicator continuously on.

Flash twice(2 seconds ON, 1 second OFF):

Parameters ② be reset to: a) every 6 months do self-test once; b) Time standard 90 minutes; c) Yellow LED indicator continuously on.

7, Switch off luminaire when under emergency mode:

Within 30minutes after main power failed, press the test button 3 times in 3 seconds, the luminaire will switch off.

Color Temperature Change Instruction:

(For Partial Models Only,See Model Description)

The DIP switch with three positions on the luminaire body can adjust CCT of the luminaire in three choices(Figure14).

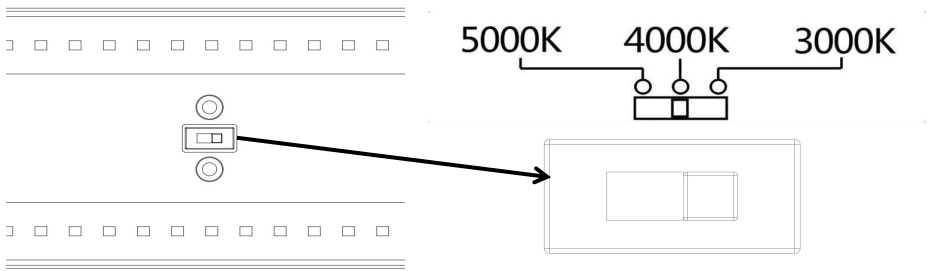


Figure14

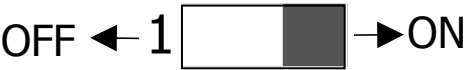
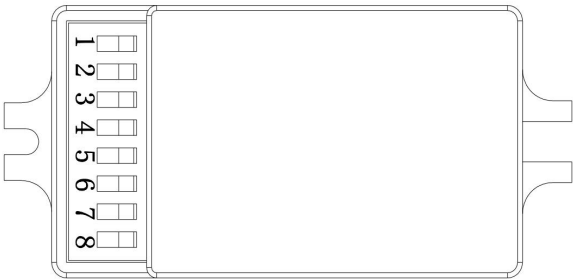
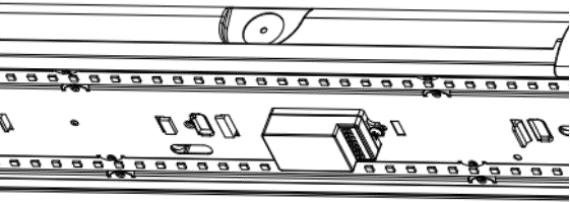


Figure15

Examples for typical a setting applications:

1. Luminaire brightness at 100%--twilight mode

	1	2	3	4	5	6	7	8
ON	●	●		●	●	●		
OFF			●				●	●

Luminaire will always keep 20% brightness after 30 seconds if no movement detected.

2. Luminaire brightness at ON--OFF mode

	1	2	3	4	5	6	7	8
ON	●	●		●	●	●	●	●
OFF			●					

Luminaire will always keep OFF after 30 seconds if no movement detected.

3. Luminaire brightness at 100%--twilight--OFF mode

	1	2	3	4	5	6	7	8
ON	●	●		●	●	●		●
OFF			●				●	

The luminaire will switch to 20% brightness after 30 seconds when no movement detected, then Luminaire will switch OFF after 90 seconds if still no movement detected at 20% brightness state. If any movement was detected, luminaire will switch to 100% brightness.

4. Luminaire brightness always 100% ON mode (disable sensor)

	1	2	3	4	5	6	7	8
ON	●	●	●	●				
OFF					●	●	●	●

Luminaire will always keep 100% brightness whatever movement detected or not.

Sensor Setting:

(For Partial Models Only, See Model Description) **(Figure 15)**

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.

Detection Area			
	1	2	
I	ON	ON	100%
II	OFF	ON	75%
III	ON	OFF	50%
IV	OFF	OFF	20%

Detection area(Sensitive)

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

Default value(100%, 8-12m)

Hold Time			
	3	4	
I	ON	ON	5S
II	OFF	ON	30S
III	ON	OFF	3min
IV	OFF	OFF	10min

Hold time(Delay time)

Refers to the time period the luminaire remain sat 100% illumination after no motion detected.

Default value(30s)

Twilight Ratio			
	5	6	
I	ON	ON	20%
II	OFF	ON	40%
III	ON	OFF	60%
IV	OFF	OFF	100%

Twilight Ratio

Refers to the twilight illumination value after no motion detected.

Default value (20%)

Twilight Time			
	7	8	
I	ON	ON	0S
II	OFF	ON	90S
III	ON	OFF	3min
IV	OFF	OFF	+∞

Twilight Time(Hold time)

This setting is for 2-step dimming sensor.

100% --> twilight(default value 20%) --> Switch off 0%.
Refers to the time period the luminaire remains at twilight illumination after no motion detected.

Default value(+∞, always keep twilight)