

CCT Select Polycarbonate Ceiling Light



Basic, Simple Sensor & Simple Sensor PLUS

Advantages

- 3 colour temperatures selection in one luminaire
- High lumen output, energy saving
- Slim and rigid body design



More advantages with Simple Sensor PLUS

- Energy Saving : The light come on only when it has been triggered which eliminates the need to keep your lights on all the time.
- More Convenience : You can have the lights on as soon as motion detected
- Improve Security : Lights switch on automatically when motion detected, can be a deterrent in the event of home intrusion.

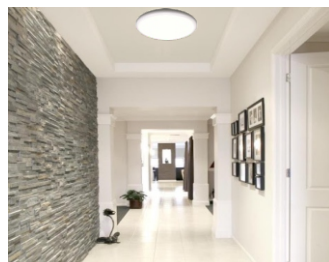


Features

- Ø250mm, Ø320mm
- 14W, 20W
- CRI>80
- **LUMILEDS** 2835 LED chips
- Built-in driver
- 3 Colour temperatures selection
- Non dim driver & PWM dimming driver
- Simple Sensor & Simple Sensor PLUS available as an option.
- Foyer, Corridor, Bed room, Toilet, Kitchen, Store room.



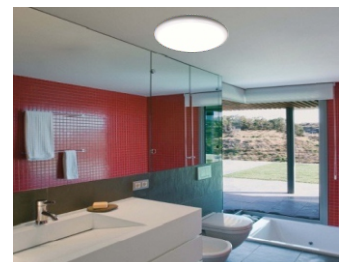
Kitchen



Corridor

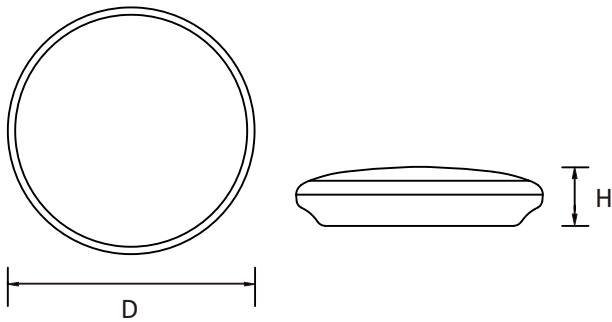


Living Room



Toilet

Dimensions

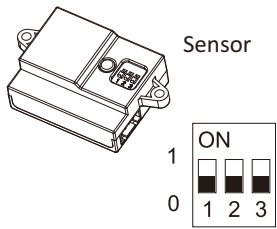


| Model | Diameter D(mm) | Height H(mm) |
|--|----------------|--------------|
| MC25PC14 / MC25PC14-EM MC25PC14-SS / MC25PC14-SS-EM MC25PC14-SP / MC25PC14-SP-EM | Ø250 | 60 |
| MC32PC20 / MC32PC20-EM MC32PC20-SS / MC32PC20-SS-EM MC32PC20-SP / MC32PC20-SP-EM | Ø320 | 60 |

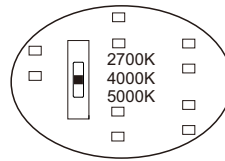
Key Specifications

| Model | MC25PC14 | MC32PC20 | MC25PC14-SS | MC32PC20-SS | MC25PC14-SP | MC32PC20-SP |
|-------------------------|---|----------|---|-------------|-------------------------|-------------|
| Type | Basic | | Simple Sensor | | Simple Sensor PLUS | |
| Complete Fixture | | | | | | |
| Colour Temperature | 2700/3000/4000K or 3000/4000/5000K(By selector switch) | | | | 2700K-5000K(By remote) | |
| Service Life | L80 B20 35,000 hours | | | | | |
| Light Source | LUMILEDS 2835 chips 0.5W | | | | | |
| Led Chips (pcs) | 120 x 2 | 180 x 2 | 120 x 2 | 180 x 2 | 120 x 2 | 180 x 2 |
| Mounting Method | Surface mount on the ceiling | | | | | |
| Connected Load | 14W | 20W | 15W | 21W | 15W | 21W |
| Rated Luminous Flux | 1300lm | 2000lm | 1300lm | 2000lm | 1300lm | 2000lm |
| Luminous Efficacy | 93lm/W | 100lm/W | 87lm/W | 95lm/W | 87lm/W | 95lm/W |
| Colour Rendering Index | 80 | | | | | |
| Colour Tolerance | ≤ 5 SDCM | | | | | |
| Luminaire Colour | Base & frame white RAL9016, Opal diffuser | | | | | |
| Material | Body Polycarbonate (PC) V0, diffuser PC V2 | | | | | |
| Beam Angle | 120° | | | | | |
| Class | II | | | | | |
| IP Rating | IP44 from front | | | | | |
| Glow Wire Test | Body 850°C, diffuser 650°C | | | | | |
| Ambient Temperature | -20 to 40°C | | | | | |
| Driver (Ripple free) | Non dimmable, Double insulation | | PWM driver, completed with Sensor Control | | | |
| Input Current | 61mA | 87mA | 61mA | 87mA | 61mA | 87mA |
| Input Voltage | 220-240Vac 50/60Hz | | | | | |
| Power Factor | >0.9 | | | | | |
| Output Power | 12W | 18W | 12W | 18W | 12W | 18W |
| Output Voltage | 36Vdc | | | | | |
| Output Current | 330mA | 500mA | 330mA | 500mA | 330mA | 500mA |

Simple Sensor Functions (SS)



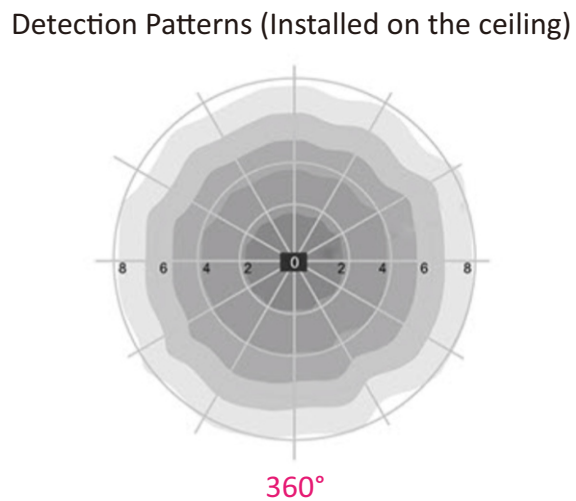
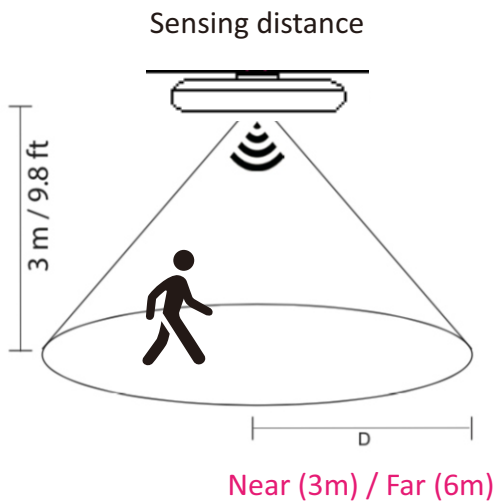
Simple Sensor
 - With 5.8 GHz microwave sensor & light sensor



CCT Changeable
 - Selector switch over LED plate

1. Dip Switch Setting

| Function | Timer Setting | Sensing Distance | Standby Brightness |
|------------|---|--|--|
| Dip switch | 1 | 2 | 3 |
| 1 | If no motion is detected in 10 mins, the luminaire will dim down to 50% brightness. If no motion is detected in another 5 mins, the luminaire will dim down to standby light mode. | <input checked="" type="checkbox"/> 10min (dim to 50%) <input type="checkbox"/> 5min (dim to standby) | <input checked="" type="checkbox"/> Far <input type="checkbox"/> 6m |
| 0 | If no motion is detected in 3 mins, the luminaire will dim down to 50% brightness. If no motion is detected in another 2 mins, the luminaire will dim down to standby light mode. | <input type="checkbox"/> 3min (dim to 50%) <input checked="" type="checkbox"/> 2min (dim to standby) | <input type="checkbox"/> 20% <input checked="" type="checkbox"/> Lights off |



2. Auto Test



Test mode to indicate the radar function is enabled

- Once switch ON the light, it will be turned off automatically after 5 sec. Any motion trigger the sensor will go back to normal function settings.
- This auto test will repeat the test function each time if the wall switch is switch off and on again.

3. Switching Microwave Sensor ON & OFF

Quickly switching the wall switch ON & OFF 3 times.



- Sensor **OFF** :

* luminaire flashes 2 times to indicate the sensor is **OFF**, lights will then stay **ON**

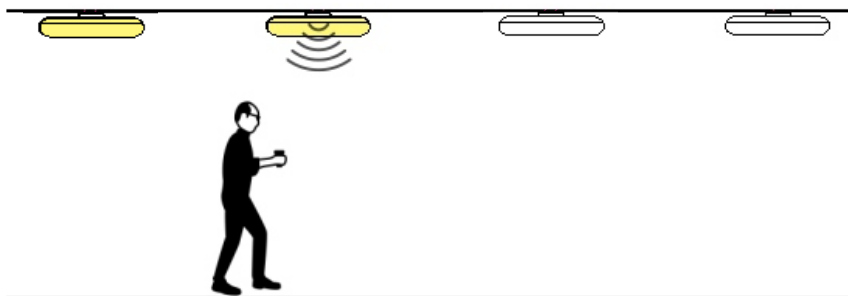
- Sensor **ON** :

* luminaire flashes 2 times to indicate the sensor is **ON**, and the lights will automatically go **OFF**

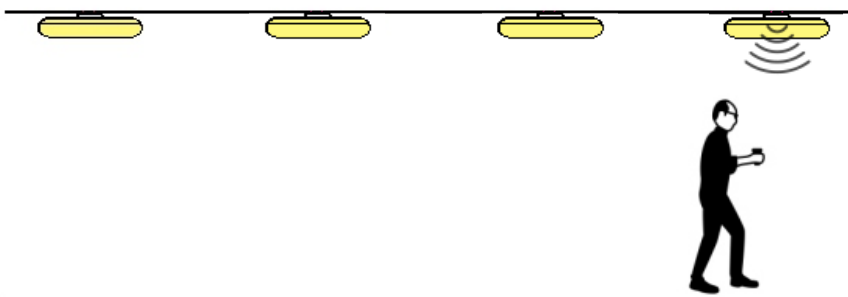
Example of Corridor Setting



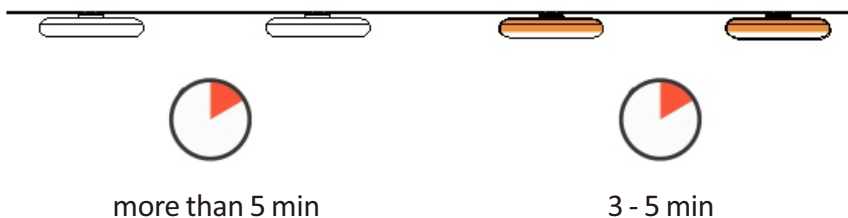
- Time setting : 5min
- Sensing distance: Near
- Standby brightness: 0%



1. When motion sensor has been triggered, the luminaire turns to 100% brightness.

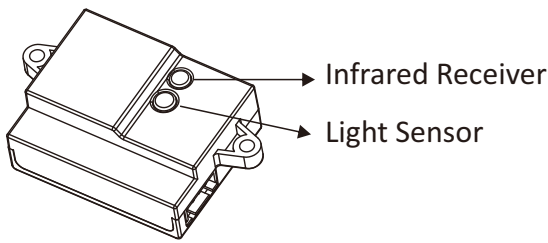


2. If there's no detection of motion, the controller will start count to 5 minutes delay time.



3. After 3 min, luminaire will dim down to 50% brightness, and switch OFF after 2 min.

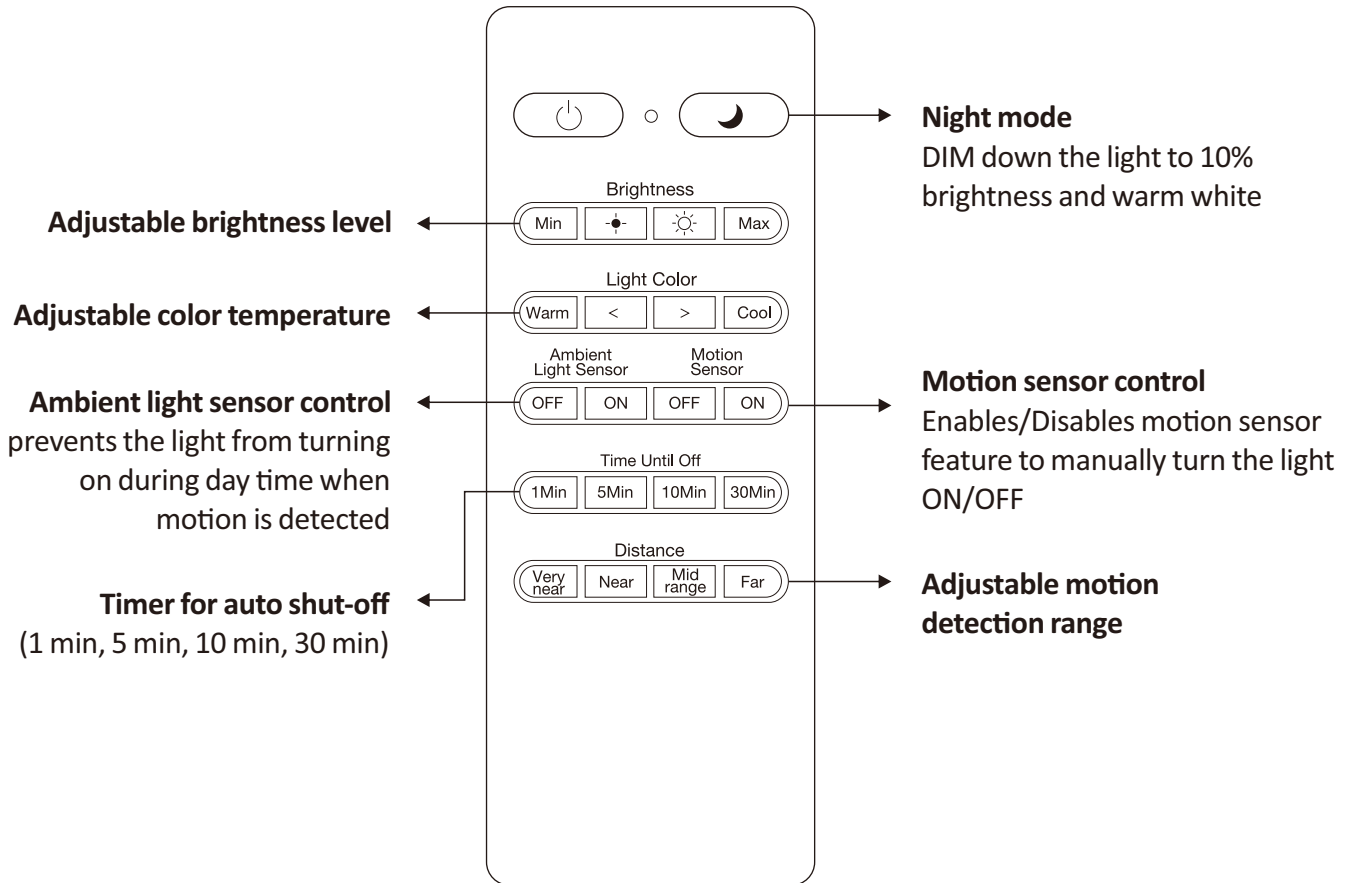
Simple Sensor PLUS Functions (SP)



Simple Sensor PLUS

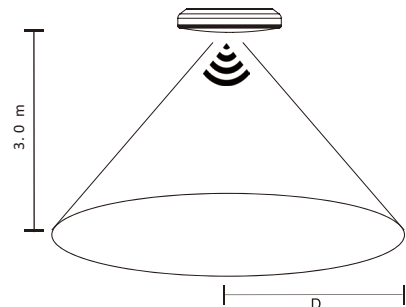
- With 5.8 GHz microwave sensor & Infrared Receiver & light sensor

Remote Settings



Distance

Distance is the maximum motion detection range. You can choose from various settings: Very near, Near, Mid-range and Far. The sensing distance would be ranged from around 1 m to 7 m. You may refer to the table below for the maximum sensing distance for the light installed at a height of 3.0 m.



| Setting | Maximum Sensing Distance (D) |
|-----------|------------------------------|
| Very near | 1 m - 2 m |
| Near | 2 m - 3.5 m |
| Mid-range | 3.5 m - 5 m |
| Far | 5 m - 7 m |

Sensor Specification

| | | |
|------------------------------------|--|--|
| Model | MC25PC14-SS / MC25PC14-SS-EM MC32PC20-SS / MC32PC20-SS-EM | MC25PC14-SP / MC25PC14-SP-EM MC32PC20-SP / MC32PC20-SP-EM |
| Electrical Parameters | | |
| Input Voltage | DC5V | |
| Input Current | 20-25mA | |
| Standby Power | <0.9W | |
| Output Voltage | DC 5V(PWM) | |
| Microwave Sensor Parameters | | |
| Microwave Frequency | 5.8GHz ± 75MHz | |
| Transmission Power | <0.5m W | |
| Colour Changeable | By dip switch | By IR remote |

Emergency Model Technical Data

| | | | | | | |
|--------------|-------------|-------------|----------------|----------------|----------------|----------------|
| Model | MC25PC14-EM | MC32PC20-EM | MC25PC14-SS-EM | MC32PC20-SS-EM | MC25PC14-SP-EM | MC32PC20-SP-EM |
| Total Rating | 14W | 20W | 15W | 21W | 15W | 21W |

| | | | |
|---------------------------|-------------------------------------|----------------------|---------------------|
| Inverter | | Battery | |
| Input Voltage | 220-240Vac, 560Hz | Type | 2 x 18650 Li-Fe Po4 |
| Output Voltage | 36Vdc, SELV | Voltage | 6.4Vdc |
| Monthly and Annual Test | Self testing per month and per year | Capacity | 1500mAH |
| System | Auto test | Minimum Lumen Output | 180Lm 2W > 3 hours |
| Type | Maintained | | 270Lm 3W > 2 hours |
| Max charging time to 100% | < 6 hours | | 450Lm 5W > 1 hours |

| | | |
|--------------------------|-----------------------|---|
| Approval Standard | | |
| CE | CE-LVD | EN 60598-1:2015/A1:2018,EN 60598-2-1:1989,EN 62031:2008+A1:2013+A2:2015, EN 62493:2015 EN 61347-2-7 |
| | CE-EMC | EN 55015:2013+A1:2015,EN 61000-3-2:2014,EN 61000-3-3:2013,EN 61547:2009 |
| | CE-RED | ETSI EN 301 489-1 V2.2.0: 2017,ETSI EN 301 489-3 V2.1.1: 2017 ETSI EN300 440 V2.2.0: 2017,EN 62479: 2010 |
| RoHS | RoHS 2.0 (EU)2015/863 | |

| | | |
|------------------------|-------------------|--------------------------------|
| Packing Details | | |
| Inner Box | Inner Packing | 4 color printed box |
| | Instruction Sheet | One color printed |
| Outer Cartoon | Qty Per Cartoon | 10 |
| | Type of Box | 3 layer corrugated cartoon box |

With Emergency

The Need for Emergency Lighting

The tragedies in the past bring us more focus on the importance of life safety, emergency lighting and compliance. Emergency lighting serve as an example of continuing needs on safety means allow egress/escape for building occupants during emergency situations including:



- a. When utility power failure, utility power voltage reduction (brownout) below the minimum required standards or
- b. Power interruptions in the building, including total power loss or individual phase or branch circuit failure, fire and/or smoke in the building, and
- c. Natural disaster including earthquake, tornado, hurricane, flood.

Every commercial, industrial, and institutional building is required to be equipped with various types of life safety equipment.

In short, general life safety concerns with increasing insurance and liability considerations, make it incumbent upon everyone involved.

Emergency lighting should be treated as life safety equipment.

Emergency Advantages :

Provide safe and constant lighting for people within the premises to evacuate calmly when the main power is cutoff. When the main power being cutoff for some reason, you can reduce the amount of expensive hours lost to non-productivity. When a fire occurs and there is a blackout, emergency lighting will make it easier to leave the building safely and calmly for everyone.

Features:

Self-diagnostics System

Under the law, emergency lighting systems need to be regularly tested and maintained in full working order.

In order to avoid the high manpower cost and disruption of manual testing, automatic test systems should be considered.

Autotest is a stand alone self-test system, designed for use with self-contained emergency lighting, the testing module self calibrates and carries out testing at predetermined intervals.



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