



Description

This series of products features an integrated Slim Sensor, designed to enable Luminaire-Level Lighting Control (LLLC) functionality for panel lights, track lights, strip lights, wrap-around fixtures, and select architectural lighting fixtures. This compact unit combines daylight harvesting and microwave occupancy sensing technologies, transforming luminaires into intelligent lighting solutions.

Features

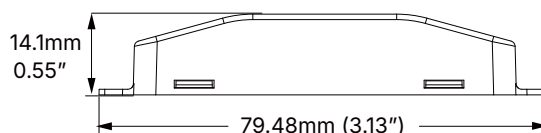
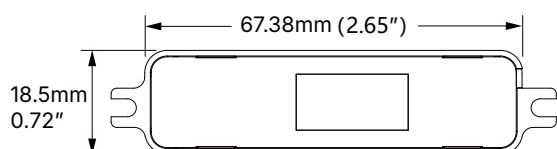
- 12VDC, 0-10V Dimming.
- With Daylight Harvesting and Photocell Function.
- Can be configured and controlled via the HSE WISE app.
- Square module part, with magnet for easy installation.



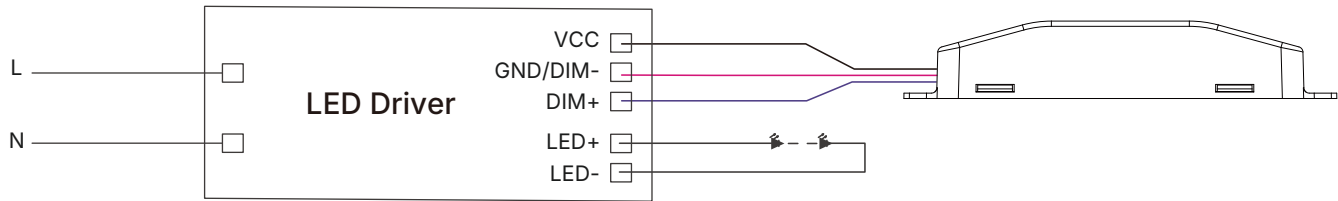
Specifications

Input Voltage	DC 10-15V
Input Current	<15mA
Stand-by Power	DC10V@<0.5W
Control Method	DIM 0-10V
Detection Angle	Fresnel Lens (Ceiling Mounted 360 ° Wall Mounted ≤120 °)
Mounting Height	<4m/13ft
Detection Range	Radius: 2-4m (6.56-13.12ft)
Control Device	HSE WISE APP
Bluetooth Transmit	30m / 98ft
Radio Frequency	2.4GHz (2402~2480MHz)
Bluetooth Version	5.4
Dim Level	Min Dim Level – 100% (The minimum value can be set in the zone settings panel)
Detection Area	High / Medium / Low
Max Dim	1%-100% Continuously Adjustable
Hold Time	5S/30S/1min-120min (Min Hold Time, Adjustment Range 1min)
Stanby Dim Level	1% - 100% (Adjustment Range 1%)
Standby Period	0S/5S/30S/1min - 120min (Adjustment Range 1min) / ∞
Daylight Threshold	Disable/50Lux - 2000Lux (Adjustment Range 50Lux)
Manually Dimming Play	Function supported, 10-100% in manual mode, 60%-100% in sensor mode.
Working Temp	-25°C to +60°C
IP Rating	IP20

Dimensions



Wiring

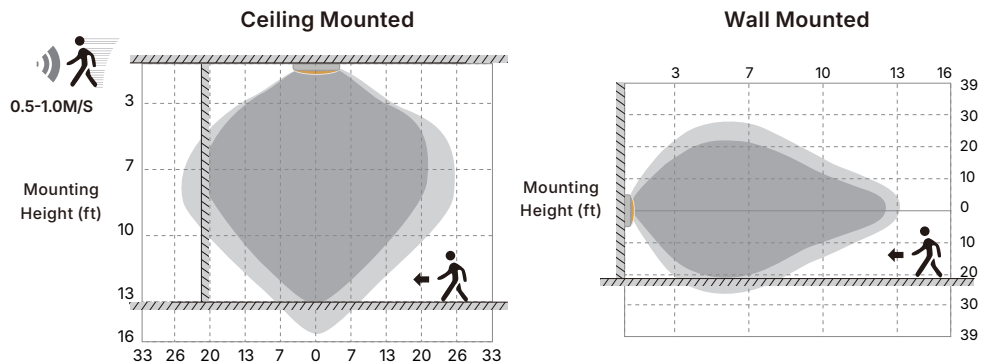


Detection Coverage

Highest mounting height is 4 m /13 ft

This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

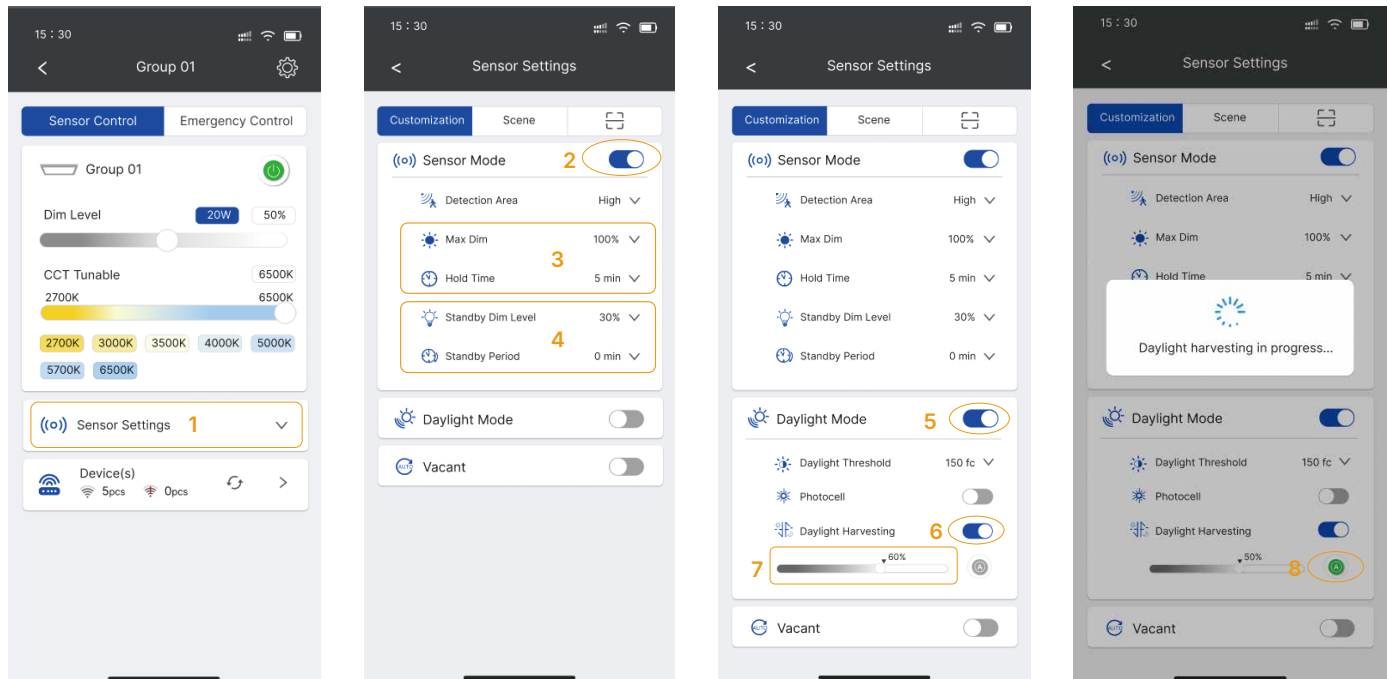
- Well Detected Area
- Possibly Detected Area



Performance

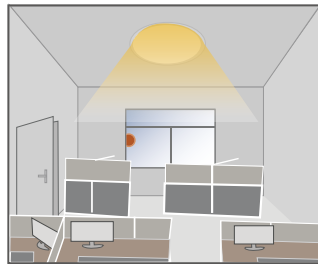
1.Daylight Harvesting

Please follow below setting steps to perform this function:



1. Tap "Sensor Settings" to open the control interface.
2. Enable the Sensor Mode.
3. Set the Max Dim and Hold Time parameters.
4. Set the Standby Dim Level and Standby Period.
5. Enable the Daylight Mode.
6. Enable the Daylight Harvesting.
7. Adjust the luminaire output to the desired comfort level.
8. Press the  Learn button to save the current ambient light level as the reference value.

Picture Diagram



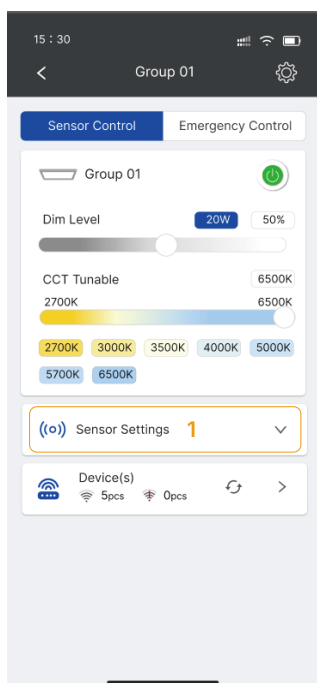
When ambient brightness is lower than preset lux level, Someone triggered ON light and keep dimming according to the change of the ambient brightness; when outside is getting darker, the inside will be brighter, and brighter darker.

Light OFF when ambient brightness becomes higher than the preset lux level.

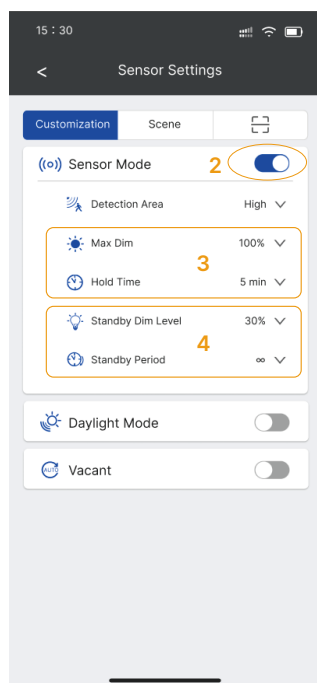
2. Dusk/Dawn function

The sensor is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

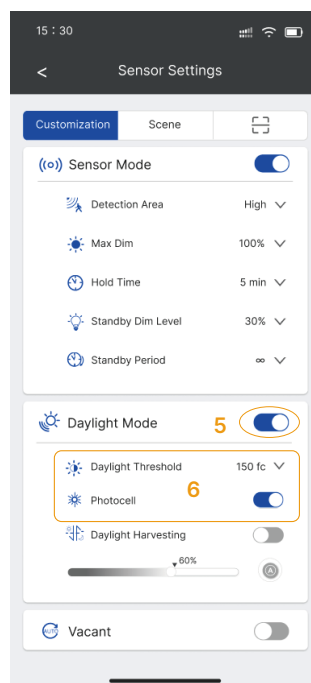
Please follow below setting steps to perform this function:



1. Tap "Sensor Settings" to open the control interface.

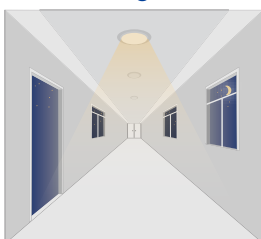


2. Enable the Sensor Mode.
3. Set the Max Dim and Hold Time parameters.
4. Set the Standby Dim Level and Standby Period MUST be set as INFINITE.

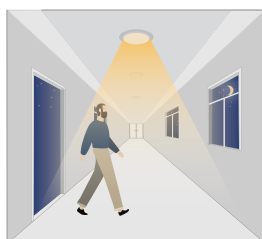


5. Enable Daylight Mode,
6. Set the Daylight Threshold, and then enable Photocell.

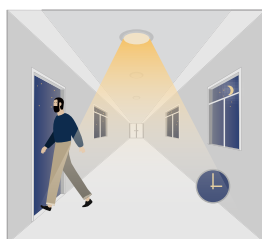
Picture Diagram



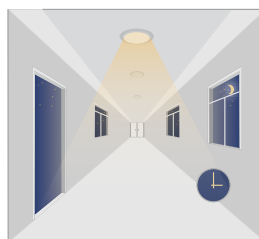
With insufficient ambient brightness, sensor turns on light and keeps it at standby dimming level even if there is no motion or persence.



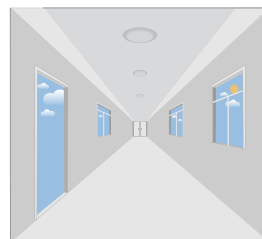
When sensor detects motion or presence it will bring the light level up to 100%.



After motion is no longer detected, fixture remains at 100% for hold time.

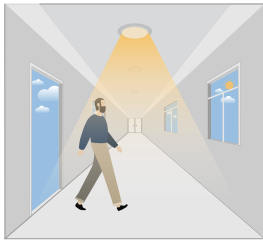


After pre-set hold time period it will dim light to standby dimming level again and always keep it.

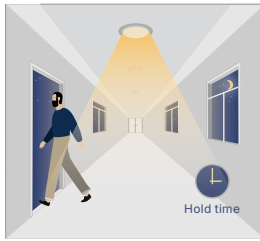


With sufficient ambient brightness, sensor will turn OFF light automatically.

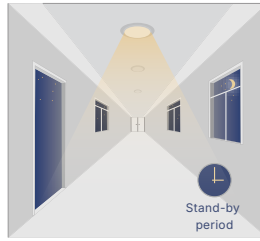
3. With Daylight Disable



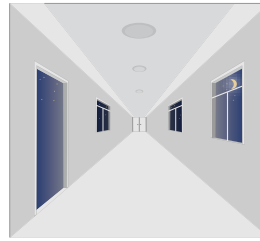
Sensor turns ON light when motion is detected.



Sensor keeps for a hold time period after motion leaves

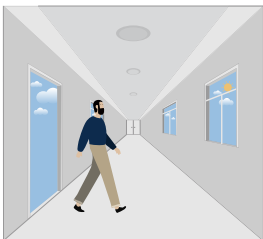


Sensor dims light to standby dimming level after hold time if there is still no motion

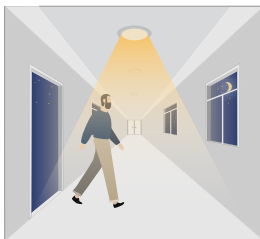


Sensor turns OFF light after standby period

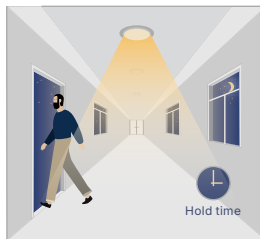
4. With Daylight Threshold



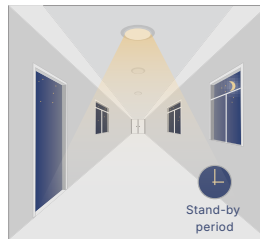
With sufficient daylight, the sensor keeps light OFF even motion gets detected



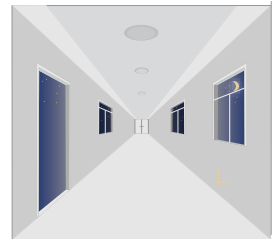
With insufficient daylight, the sensor turns light ON when motion gets detected



After there's no motion detected, the sensor keeps light ON 100% for holdtime.



After holdtime, sensor dims light to standby dimming level for standby period. if the standby period has been set as 0s, sensor turns light OFF automatically after holdtime.



The sensor turns OFF light automatically after the standby period when there's no motion detected.

Factory Settings

- | | |
|-------------------------|-------------------------------|
| 1. Sensor Mode: ON | 5. Standby Dimming Level: 20% |
| 2. Detection Area: High | 6. Standby Period: 10min |
| 3. Max Dim: 100% | 7. Daylight Mode: OFF |
| 4. Hold Time: 10min | |



Attention

1. The sensor should be installed by qualified electrician and ensure power is OFF before installation.
2. Please read the instruction carefully before using the product and keep it well for other users to read any time.
3. We reserve the right to modify any incorrect text, image and technical parameters.
4. Any unauthorized modification is forbidden. Otherwise all guarantees will be immediately invalid.
5. Product could be optimized without prior notice.

Application Notes

1. Suitable for indoor application, half/completely outdoor environment conditions might be captured as moving signals to trigger the sensor.
2. Suitable for ceiling mount installation, adjust sensitivity properly if it's installed on side-wall because it gets more sensitive.
3. Adjust sensitivity properly when the sensor is applied in small/narrow/metal-built/with metal spaces.
4. Microwave sensor can't be placed under/inside metal shell; Microwave module must directly face the detection area with edge lower than light fixture.
5. Keep the sensor away from vibration equipments, air-conditioning outlets, smoke extractors alike conditions to avoid unwanted trigger.
5. Not suitable environment if there's sudden changed temperature of airflow for PIR sensor.
6. Keep the sensor module away from AC input and DC output to avoid high/low frequency signal interference.
7. At least 2m/6.5ft distance between microwave sensors; 1.5m/4.9ft between the sensor and other wireless devices such as routers to avoid possible radio interference.
8. Daylight testing delivered in bright day without shadow or specially designed lampshade or lens.
9. Dimming performance differs when connected to different drivers; If the driver can't completely turn OFF, sensor can't either.
10. Input power voltage must be stable with float less than 10%.
11. The first time powered ON sensor, light will be ON 100% . The light then automatically dims to standby level or powers off.
12. Distance detection is delivered by testing person about 165cm in open area as reference, the result differs by size and speed of moving objects, mounting height and real-life situation.

App Download

