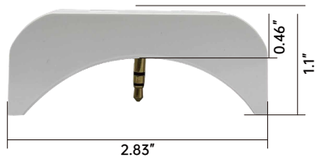


J-ST04-MS



(Purchase separately)
J-RC06R





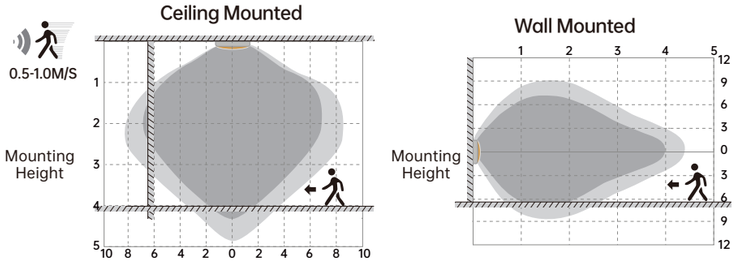
J-ST04-MS

- NLC/DLC Qual ed Product.
- Tiny Microwave Sensor with/out Bluetooth-Mesh, PIR Version Interchangeable.
- 0-10V Dimming, with Daylight Harvesting.
- Suitable for Indoor Lighting, Panel, Troffer etc.

Parameters

Voltage Range	10-15VDC
Current	⩾40mA
Stand-by Power	<0.5W
Frequency	5.8GHz±75MHz
Microwave Power	<0.3mW
Installation Height	4m/13.12 Max.
Detection Distance	⩾3m/9ft
Detection Angle	30-150° Without Glass Cover)
Detection Area	25% / 50% / 75% / 100%
Holdtime	5s/ 30s/ 1min/ 2min/ 3min/ 5min/ 10min/ 15min/ 20min/ 25min/30min/ 45min/ 60min/ 90min/ 120min
Daylight Threshold	Disable/400Lux/350Lux/300Lux/250Lux/200Lux/120Lux/80Lux/50Lux/30Lux/10Lux/2Lux
Standby Period	0s/5s/30s/1min/2min/3min/5min/10min/15min/20min/25min/30min/45min/60min/+∞
Standby Dimming Level	10%/ 20%/ 30%/ 50%
Working Temp	-20℃~+60℃
IP Rating	IP65
Factory Setting	Detection Area: **100%** Holdtime: **10min** Daylight Threshold: **Disable** Stand-by Dimming Level: **20%** Stand-by Period: **10min**

Detection Coverage



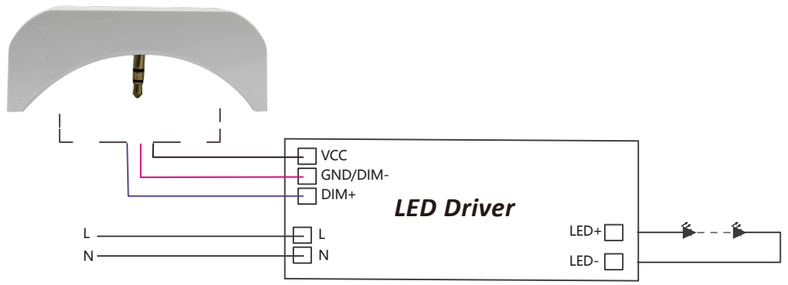
Highest mounting height is 4m

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

Well Detected Area

Possibly Detected Area

Wiring Diagram



Black White +12V 12VDC input
Pink GND 0/1-10V DIM
Purple DIM+ 0/1-10V DIM+

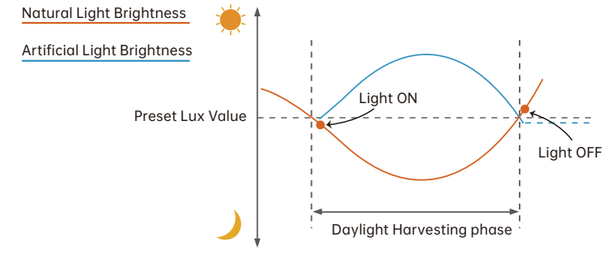
Performance

1.Daylight Harvesting

Please follow below setting steps to perform this function:

1. Stay in SENSOR MODE
2. STANDBY PERIOD as 0S
3. DAYLIGHT as any of 50Lux / 80Lux / 120Lux / 200Lux / 250Lux / 300Lux / 350Lux / 400Lux
4. Press DAYLIGHT HARVESTING button to ON







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

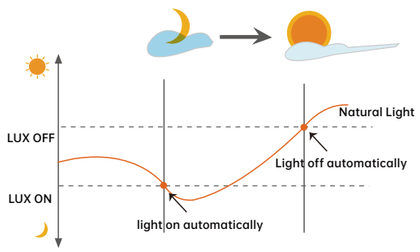
Light OFF when ambient brightness becomes higher
than the preset lux level.

2.Dusk/Dawn function

J-ST04-MS 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:

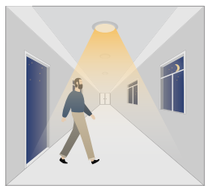
1. STANDBY DIM LEVEL as any of 10% 20% 30%
2. STANDBY PERIOD as infinite
3. DAYLIGHT as any of 30Lux / 50Lux / 80Lux / 120Lux / 200Lux / 250Lux / 300Lux / 350Lux / 400Lux



3. With Dusk/Dawn function



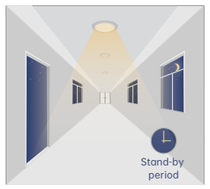
With insufficient ambient brightness, sensor turns on light and keeps it at standby dimming level even if there is no motion or persence.



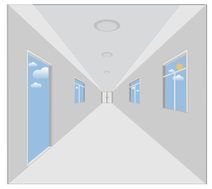
When sensor detects motion or presence it will bring the light level up to 100%.



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

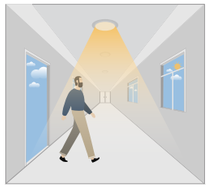


After pre-set hold time period it will dim light to standby dimming level again and always keep it.



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

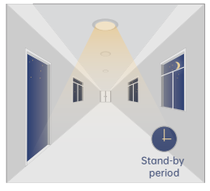
4. Without daylight disabled



Sensor turns ON light when motion is detected.



Sensor keeps for a hold time period after motion leaves

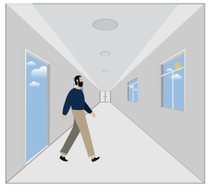


Sensor dims light to standby dimming level after hold time if there is still no motion



Sensor turns OFF light after standby period

5. 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 Os, sensor turns light OFF automatically after holdtime.



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

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.

* When ambient temperature approaches the human body classic temperature range(36℃ ~37℃/96.8~98.6℉), PIR sensor's detecting performance will significantly weaken or non-re sponsive.

* When ambient temperature stays higher then 40℃/104℉, PIR sensor's detecting perfor mance will significantly weaken.

Application Notes

1. Suitable for indoor application, half/completely outdoor environment conditions might 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. PIR sensor can't be placed inside any material, fresnel lens must completely exposed in air.

4. Fresnel lens of the PIR sensor must be lower than light fixture.

5. Not suitable environment if there's sudden changed temperature of airflow for PIR sensor.

6. Not suitable environment if there's shelves blocking between the sensor and presence area.

7. Detection area options may NOT working obviously because it works depends on fresnel lens, it's physically defined.

8. Detection distance performance works better when moving parallelly than moving towards to the sensor.

9. Daylight testing delivered in bright day without shadow or specially designed lampshade or lens.

10. Dimming performance differs when connected to different drivers; If the driver can't completely turn OFF, sensor can't either.

11. Input power voltage must be stable with float less than 10%.

12. The first time powered ON sensor, light will be ON 100% for about 45S then dims to standby level or OFF.

13. Distance detection is delivered by testing person about 165cm in open area as reference, the result differs by size and speed of moving objects, mountng height and real-life situation.