

Motion Sensor Module



Features

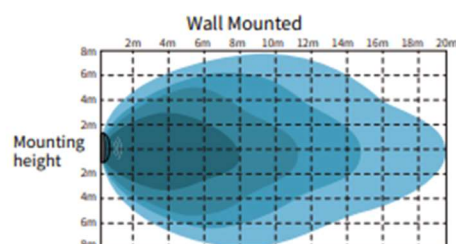
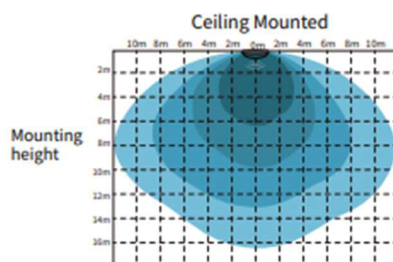
- » Tri-level dimming control, dual PD technology
- » 13m Detection range for Highbay Light Application
- » Remote control setting
- » MC094-S03 is a slow dim version design for motion trigger on and dim up/down.
- » 5 years warranty.

Technical data

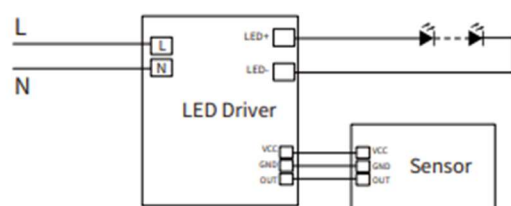
Input	Operating voltage	11-15V DC
	Operating current	22mA
Output	Output	0-10V
Sensor Parameters	Microwave frequency	5.8GHz \pm 75MHz
	Microwave power	<0.3mW
	Sensitivity	100%/75%/50%/25%
	Hold time	3s/30s/1min/3min/5min/10min/20min/30min
	Daylight threshold	2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable
	Stand-by period	0s/10s/30s/1min/5min/10min/30min/+ ∞
	Stand-by dimming level	10%/20%/30%/50%
	Mounting height	Max.12m (Ceiling mounted)
	Detection range	Max. 12m (Ceiling mounted 12m)
	Detection angle	30°-150°
	Operating temperature	-35°C-70°C
Note	Detail settings pls refer to remote controller MR009	

Detection coverage

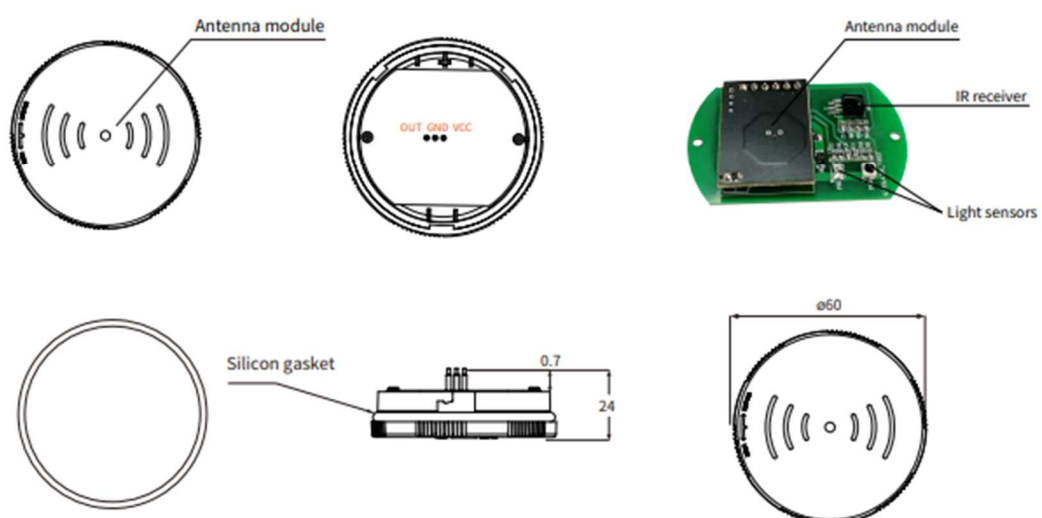
Sensitivity: 25% 50% 75% 100%



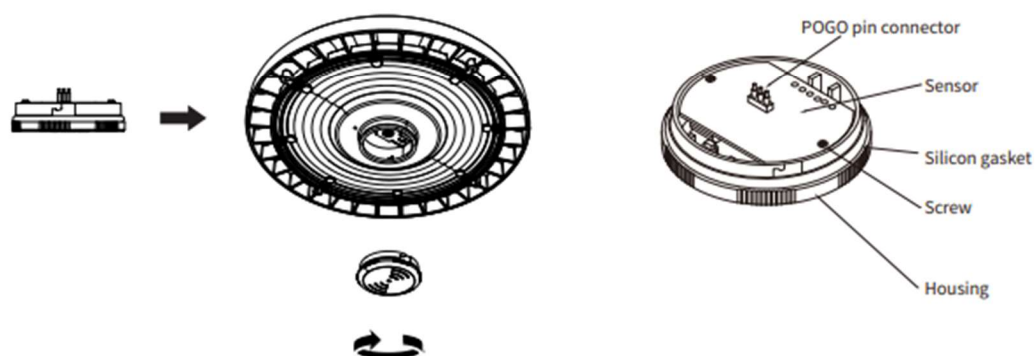
»»» Wiring diagram



»»» Dimension (Unit: mm)



»»» Installation Method



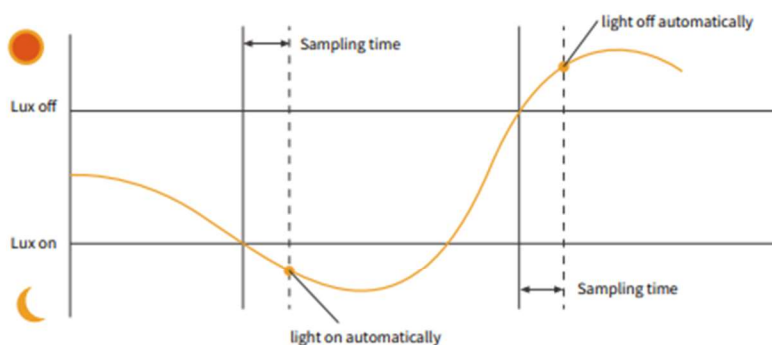
Daylight Priority

Thanks for the Dual-PD technology, The sensor can tell the difference between natural light and artificial LED light, the sensor will turn on your light fixtures when the ambient light is lower than the setting value even there is no any motion was detected. When the ambient light is higher than the setting value, the sensor will switch off the light fixtures even there is still motion.

Note: Lux-Off sampling time--10s;

Lux-On sampling time--10s;

Lux-On function takes effect only when standby dimming period set at $+\infty$.



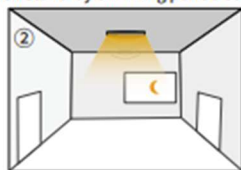
Application

Daylight priority:

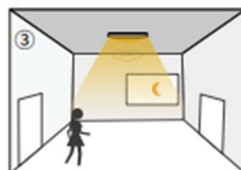
Lux-On function takes effect only when stand-by dimming period set at $+\infty$.



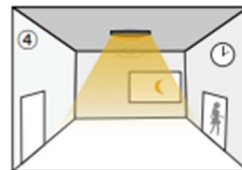
With sufficient daylight, even when motion detected, light remains OFF.



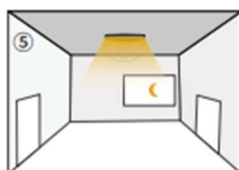
Light automatically on and dim to the stand-by dimming level when ambient brightness is lower than preset lux level.



With insufficient ambient brightness and when motion was detected, light will dim up to 100% from 20% (if stand-by level is less than 20%) in 2 seconds.



Light keeps on 100% within the holdtime.



Light dims down to standby level in 2 seconds if no motion detected after holdtime.



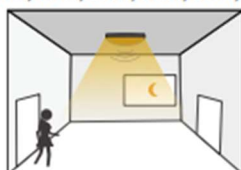
Light off when ambient lux level is higher than preset lux amount even there is still motion.

ON/OFF function:

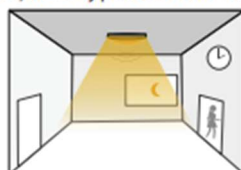
1. The daylight threshold is set to "2Lux/10Lux/30Lux/50Lux/80Lux/120Lux, Stand-by period is set to "0s".



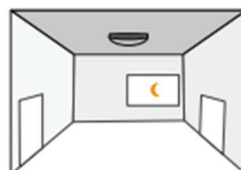
With sufficient daylight, even when motion detected, light remains OFF.



With insufficient ambient lux, light dims up to 100% in 3 seconds when motion was detected.

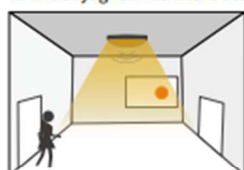


Light keeps on 100% within the holdtime.

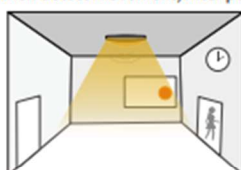


After the last detection and the preset hold time elapsed, light will turn off from 100% in 3 seconds.

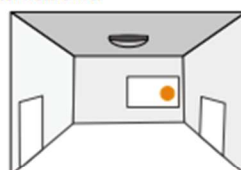
2. The daylight threshold is set to "Disable". Light on when detect movement, After people leave, Light off after hold time.



With insufficient ambient lux, light dims up to 100% in 3 seconds when motion was detected.



After people leave the detection area, light remains 100% brightness within hold time.



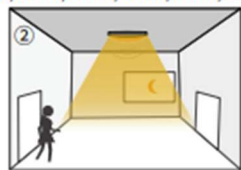
After the last detection and the preset hold time elapsed, light will turn off from 100% in 3 seconds.

Dimmable control/Corridor function:

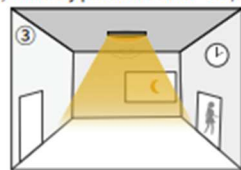
The daylight threshold is set to "2Lux/10Lux/30Lux/50Lux/80Lux/120Lux, stand-by period is set to "10s/30s/1min/5min/10min/30min".



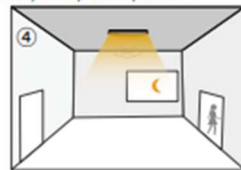
With sufficient daylight, even when motion detected, light remains OFF.



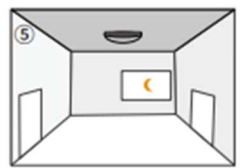
With insufficient ambient brightness and when motion was detected, light will dim up to 100% from 20% (if stand-by level is less than 20%) in 2 seconds.



Light keeps on 100% within the holdtime.



Light dims down to standby level in 2 seconds if no motion detected after holdtime.



After the stand-by period, light OFF.



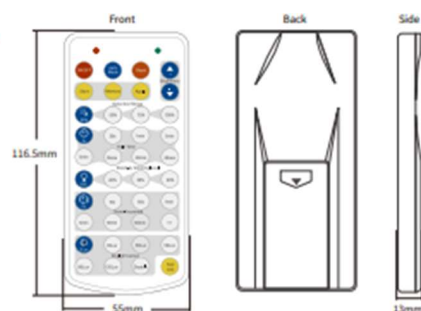
Light off when ambient lux level is higher than preset lux amount even there is still motion.



Programmable IR Remote Controller User Manual

Key	Function	Performance
	ON/OFF	1. Switch ON/OFF the light. 2. Turn on the light as permanent on without sensor mode.
	Auto Mode	Switch to sensor mode and all sensor settings will recovery to the latest setting.
	Reset	Reset the sensor to default mode: 100% brightness, hold time 2S, no stand-by time, 100% sensitivity.
	+/- Brightness	1. To adjust brightness 20%-100% in on/off mode. 2. To adjust highest brightness 60%-100% in sensor mode.
	Program Mode	Press "Start" to customize scene, users can change detection range, daylight threshold, holdtime, standby dimming level and standby period.
	Save Setting	1. Press "Memory" to save all the settings. 2. The settings remained as the last time if not get resetted values.
	One Key Apply	1. Press "Apply" to deliver the saved setting. 2. Press "Apply" without "memory" will make all the setting one-time operation. 3. Settings should be done within 30S, otherwise it exits memory mode.
	Detection Range	Detection range (Press to define detection area 100%/75%/50%/25%)
	Hold time	Hold time (Press to define holdtime 5s/30s/1min/3min/5min/10min/20min/30min)
	Stand-by dimming level	Stand-by dimming level (Press to define stand-by dimming level 10%/20%/30%/50%.)
	Stand-by period	Stand-by period (Press to define stand-by period 0s/10s/30s/1min/5min/10min/30min/+∞.) Note: "0s" means no standby period; "+∞" means unlimited standby period.
	Daylight threshold	Daylight threshold (Press to define daylight level 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable.) Note: Disable means light will be turned on once sensor detects motion no matter what ambient lux.
	Test (2s)	Sensor turn to test mode: 100% sensitivity, 100% brightness, hold time 2S, no standby. Sensor will not save the test mode, it will withdraw the test mode after 1 minute and return to the latest setting. All buttons are disabled within the test mode time.

Size (L*W*H): 116.5*55*13mm
Please use two AAA batteries



Sensor Setting (Test sensor and single sensor setting) :

1. Press ON/OFF button to turn on the sensor.
2. Press Reset or Auto Mode turn to sensor mode.
3. Select the parameters in the function area (Detection range/Hold time/Standby dimming level/Standby period/Daylight threshold)
4. When press any button, the light will flash one time, means setting was saved and done.

Programmable and One Key Commission:

1. Press ON/OFF button to turn on the sensor.
2. Press Reset or Auto Mode turn to sensor mode.
3. Press the "Start" button to start program your settings.
4. Select the parameters in the function area (Detection range/Hold time/Standby dimming level/Standby period/Daylight threshold)
5. After finish step 4, press the "Memory" button to save the settings.
6. Press "Apply" to send the settings to sensor (when press "Apply", the green light will flash)
7. Use the "Apply" button can set mass sensors in one time

Press Dim:

1. Press ON/OFF button to turn on the sensor.
2. Press Brightness+/Brightness- can dim up or dim down the light, dimming level is 20%-100% in no sensor mode.
3. Press Reset or Auto Mode turn into sensor mode, press Brightness+/Brightness- dim up or dim down the light, dimming level is 60%-100% when in sensor mode.
4. Long press the Brightness+ and hold for 3S, to turn the light to 100% no matter in sensor mode or On/OFF (no sensor) mode.

Manual dimming:

1. ON/OFF button to turn on the light
2. Press +/- Buttons on the right top corner to manually dim up or dim down the light.
3. Press Tset(2s) button to test if the sensor has been well connected; it will keep light ON for 2s only.

Trouble Shooting:

Q: No response when press any buttons.

A: Please check if the battery was installed correctly and if battery power enough, change the batteries.

Q: Sensor settings can not save after power on/off.

A: Please don't press the ON/OFF button to turn off the light after setting, just switch power off.