

Highbay 5.8GHz Microwave Motion Sensor



PRODUCT.: Highbay 5.8GHz Microwave Motion Sensor

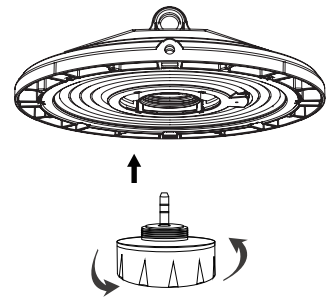
MODEL NO.: MS033C

SPEC NO.: _____

| R & D DEPARTMENT | | |
|------------------|---------|----------|
| WRITED BY | CHECKED | APPROVED |
| | | |

Product Features

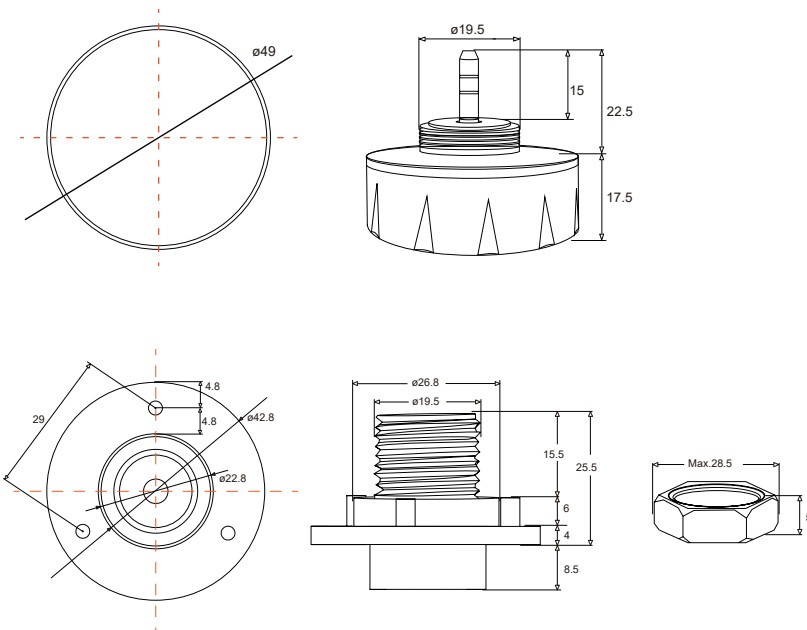
- » 13m detection range for highbay light application.
- » 0-10V dimming output build in with daylight sensor, lux on and lux off function available.
- » IP65, 3.5mm audio jack connector dedicated for highbay UFO.
- » Dedicated socket for fast pluggable installation or remove the sensor.
- » Remote control setting.
- » 5 years warranty.



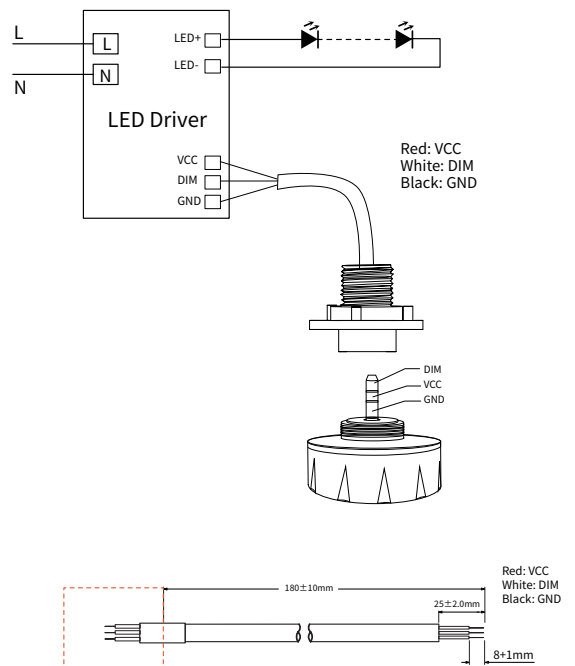
Technical data

| | | |
|-------------------|------------------------|--|
| Input | Operating voltage | 11-15V DC |
| | Operating current | ≤22mA |
| Output | Output | 0-10V |
| | Microwave frequency | 5.8GHz±75MHz |
| Sensor Parameters | Microwave power | <0.3mW |
| | Sensitivity | 100%/75%/50%/25% |
| | Hold time | 3s/30s/90s/3min/5min/15min/20min/30min |
| | Daylight threshold | 5Lux/15Lux/50Lux/100Lux/300Lux/Disable |
| | Stand-by period | 0s/5s/30s/3min/5min/15min/45min/+∞ |
| | Stand-by dimming level | 10%/20%/30%/50% |
| | Mounting height | Max.13m (Ceiling mounted) |
| | Detection range | Radius 6m (Ceiling mounted 13m) |
| | Detection Angle | 30°-150° |
| | Operating temperature | -35°C~70°C |
| | IP rating | IP65 |
| | Note | The sensor setting pls refer t o remote controller MR003 |

Dimension (Unit: mm)



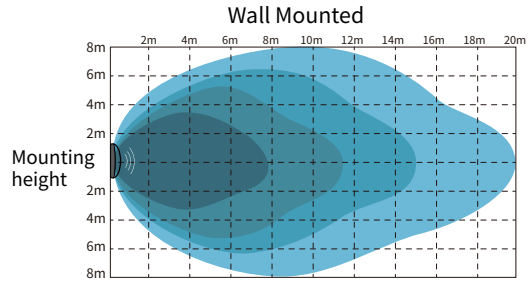
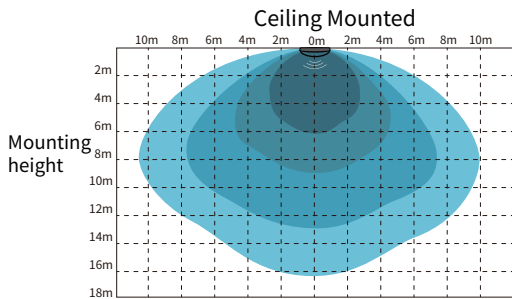
Wiring diagram





Detection coverage

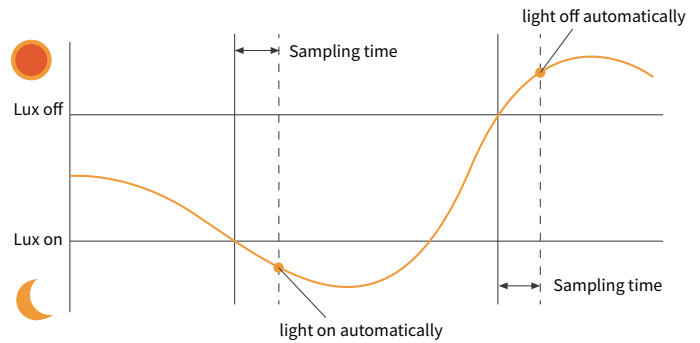
Sensitivity : 25% 50% 75% 100%



Daylight Priority

MS033C was built in with daylight sensor it 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 lux value even there is no any motion was detected. When the ambient light is higher than the setting lux value, the sensor will switch off the light fixtures even there is still motion.

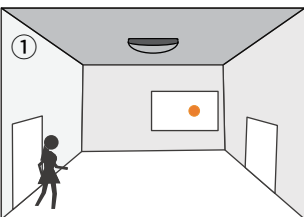
Note: Lux-Off sampling time--10s;
Lux-Off sampling time--10s;
Lux-On function takes effect only when standby dimming period set at +∞.



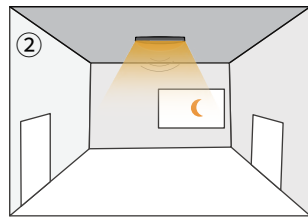
Application

1. Daylight priority:

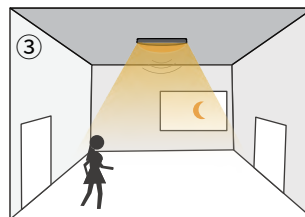
Lux-On function takes effect only when stand-by dimming period set at +∞.



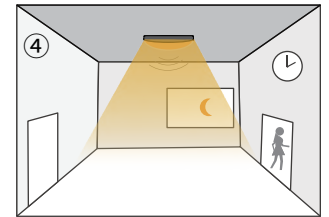
With sufficient daylight, even when motion was detected, light remains OFF.



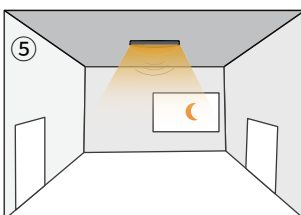
Light automatically turn on and dim to the stand-by dimming level when ambient brightness is lower than preset lux level.



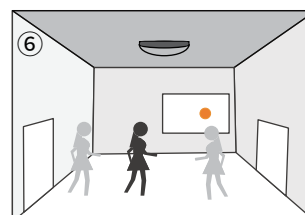
With insufficient ambient brightness, light dims to 100% when motion was detected .



Light keeps on 100% within the holdtime.



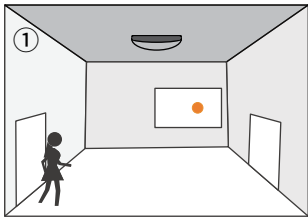
Light dims to standby dimming level if no motion was detected after the holdtime.



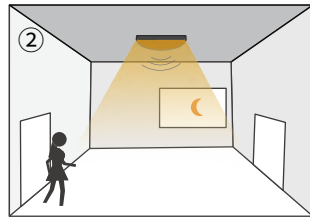
Light turn off when ambient lux level is higher than preset lux amount even there is still motion.

2. ON/OFF function:

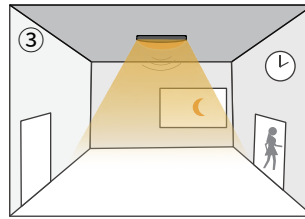
1.) The daylight threshold is set to "5Lux/15Lux/50Lux/100Lux/300Lux, Stand-by period is set to "0s".



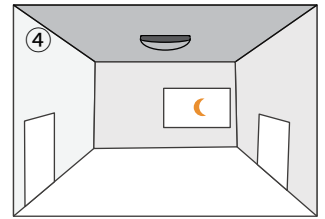
With sufficient daylight, even when motion was detected, light remains OFF.



With insufficient ambient brightness, light dims to 100% when motion was detected .

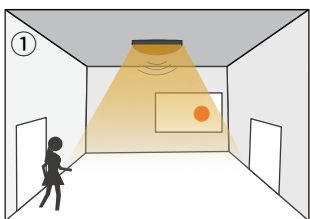


Light keeps on 100% within the holdtime.

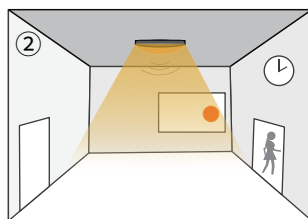


After the last detection and the preset hold time elapsed, light OFF.

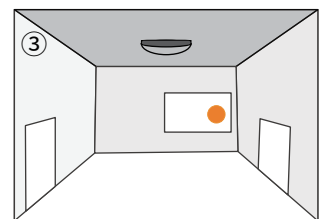
2.) The daylight threshold is set to "Disable". Light on when detect movement, After people leave, Light off after Hold time.



When motion is detected, the sensor will switch on the light to 100% brightness.



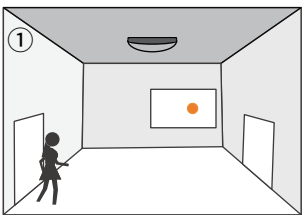
After people leave the detection area, light remains 100% brightness within hold time.



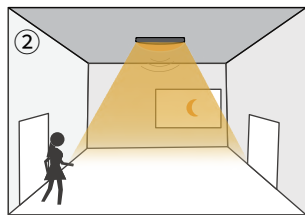
After the last detection and the present hold time elapsed, light OFF.

3. Dimmable control/Corridor function:

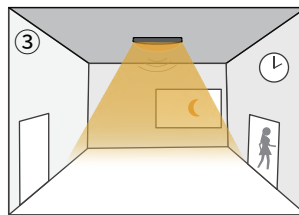
The daylight threshold is set to "5Lux/15Lux/50Lux/100Lux/300Lux, stand-by period is set to "5s/30s/3min/5min/15min/45min".



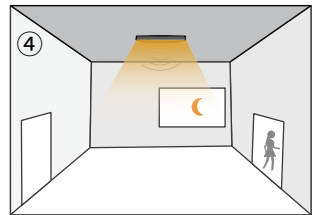
With sufficient daylight, even when motion detected, light remains OFF.



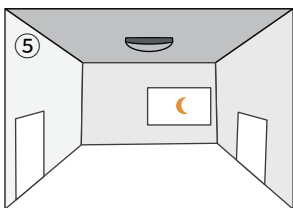
With insufficient ambient brightness, light dims to 100% when motion was detected .



Light keeps on 100% within the holdtime.



Light dims to standby level if no motion detected after holdtime.



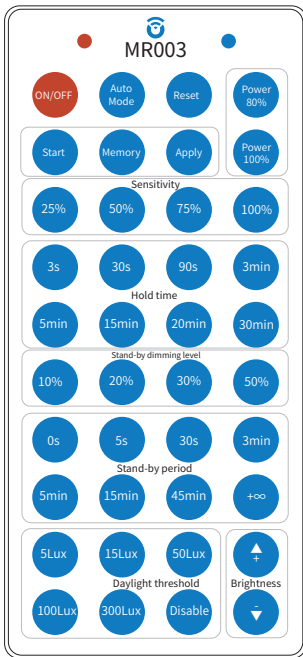
After the stand-by period, light OFF.



Installation precautions

- » Wiring must be strictly in accordance with the wiring diagram to avoid short circuit.
- » The detected surface cannot be shielded by metal objects.
- » Microwave sensor can be installed in any lamp except the one with full metal shell.
- » Should be kept away from the driver to avoid interference generation and lamp flashing.
- » Shall not be installed next to large operating machines such as ventilator/ceiling fan to avoid false triggering caused by machine vibration.
- » Suitable for indoor installation to avoid false triggering due to external factors such as rain, wind or tree swing.

MR003 Programmable one key commission remote controller



| Key | | Function |
|------------------------|---------------|---|
| ON/OFF | | Setting the light permanent ON or OFF without motion mode |
| Auto | | Switch to sensor mode and restore the latest sensor setting |
| Reset | | Turn the sensor in a default setting (3s hold time, 0s stand-by period, lux disable, 100% sensitivity). |
| Power (80%/100%) | | Quick setting the power output in 80% or 100% |
| Brightness (+/-) | | Long press this button to set the power from 20% to 100%, available in permanent ON mode or in sensor mode. |
| Start | Program Mode | 1. Press Start to program mode, then select the ①Sensitivity② Holdtime③Standby dimming level④Standby period⑤Daylight threshold to setting 2. Press Memory to save the parameters ①-⑤ had selected in step 1 3. Press Apply to transmit the ①-⑤ parameters to the target sensor Remark: After press Start, you need to press any of ①-⑤ parameter button within 30S, the time window between press any button is 30S, it will quit program mode if no any button is pressed within 30S. |
| Memory | Save Setting | |
| Apply | One Key Apply | |
| Sensitivity | | In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strongest sensitivity. |
| Hold time | | The period of light keeping 100% brightness after moving objects leave the detection area. |
| Stand-by dimming level | | The dimming level in the standby period. |
| Stand-by period | | The period of light keeping low output before it's completely switched off. When it's preset as "+∞", the light always keep at low output if no movement in the detection area and doesn't turn off. |
| Daylight threshold | | Definition of the ambient brightness; only when the ambient brightness is lower than the preset specific lux amount, the sensor will work; when it's preset as "disable", the sensor will detects motion regardless the ambient brightness. |

Remote Setting Tips: When press any button, if the light is flickering one time, means the setting is successful.

Size (L*W*H): 116.5*55*13mm
7 battery is recommended

