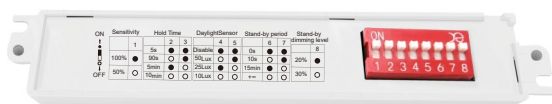


Super compact antenna Tri-level dimming 5.8GHz microwave motion sensor

MS007 (Front DIP switch)



MS007B (Back DIP switch)



MS007R (Remote control)





Features

- » Linear configuration antenna (only 11mm width), suitable for build in linear lighting fixture
- » Tri-level dimming control
- » Daul-PD technology, automatic lux on and lux off function
- » 3 types structures for selection: front side DIP switch:MS007; back side: MS007B; remote control: MS007R
- » 5 years warranty

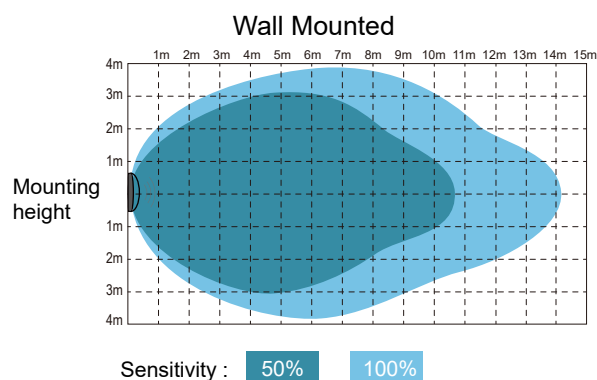
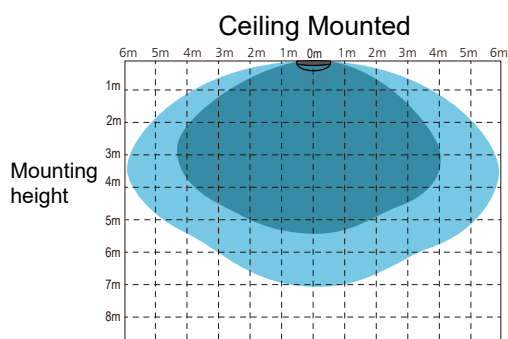


Technical data

Input	Operating voltage	12VDC
	Operating current	40mA
	Stand-by power	≤0.5W
Output	Output	10V PWM/ 0-10V
Sensor Parameters	Microwave frequency	5.8GHz±75MHz
	Microwave power	<0.3mW
	Sensitivity	100%/50%
	Hold time	5s/90s/5min/10min
	Daylight threshold	10Lux/25Lux/50Lux/Disable
	Stand-by period	0s/10s/15min/+∞
	Stand-by dimming level	20%/30%
	Mounting height	Max.5m (ceiling mounted); 1.5-1.8m (Wall Mounted)
	Detection range	Radius, Max.6m (ceiling mounted); Max.10m (Wall Mounted 1.8)
	Operating temperature	-25°C~70°C
Other	IP rating	IP20
	Size	(L*W*H) 112.5*19*15 mm
	Warranty	5 years
Note		



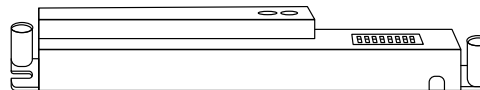
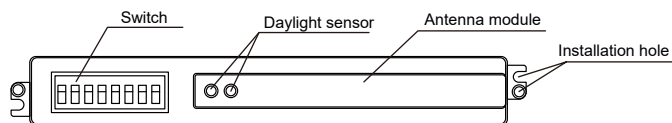
Detection coverage





Mechanical structure

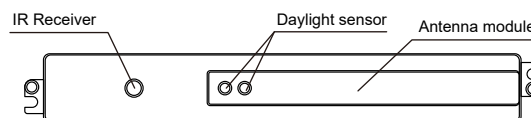
MS007 Front side DIP



MS007B Back side DIP

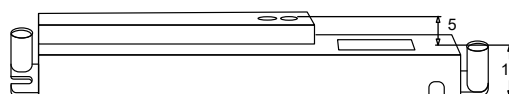
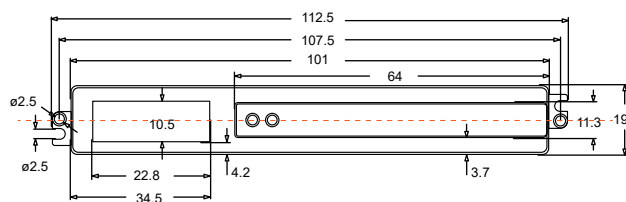


MS007R Remote control

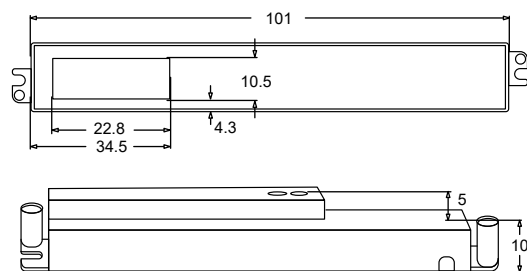


Dimension (Unit: mm)

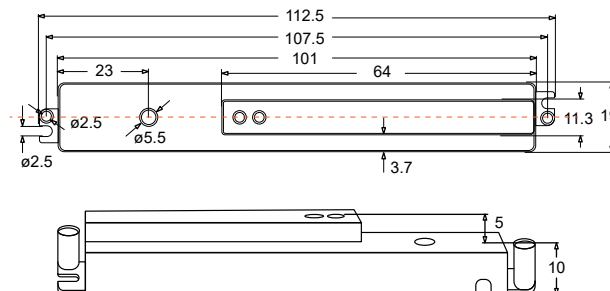
MS007 Front side DIP



MS007B Back side DIP

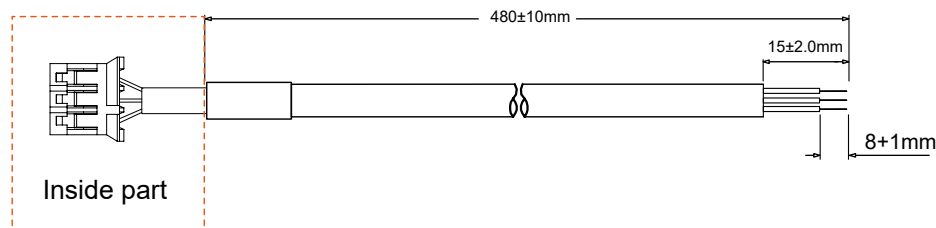


MS007R Remote control

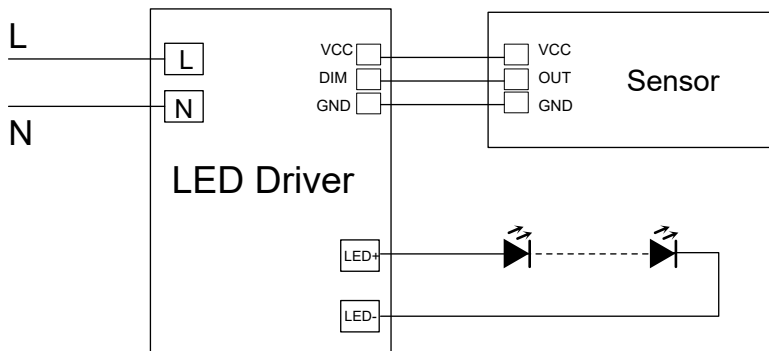


Connection cable description

Wire type: 26AWG



Red: VCC
White: DIM
Black: GND



Settings

ON (Solid black circle) **OFF** (Open circle)

Sensitivity	
DIP switch	1
100%	●
50%	○

In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strong sensitivity.

Hold-time		
DIP switch	2	3
5s	●	●
90s	○	●
5min	●	○
10min	○	○

The period of light keeping 100% brightness after moving objects leave the detection area.

Daylight threshold		
DIP switch	4	5
Disable	●	●
50Lux	○	●
25Lux	●	○
10Lux	○	○

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.

Stand-by period		
DIP switch	6	7
0s	●	●
10s	○	●
15min	●	○
+∞	○	○

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.

Stand-by dimming level	
DIP switch	8
20%	●
30%	○

The dimming level in the standby period.



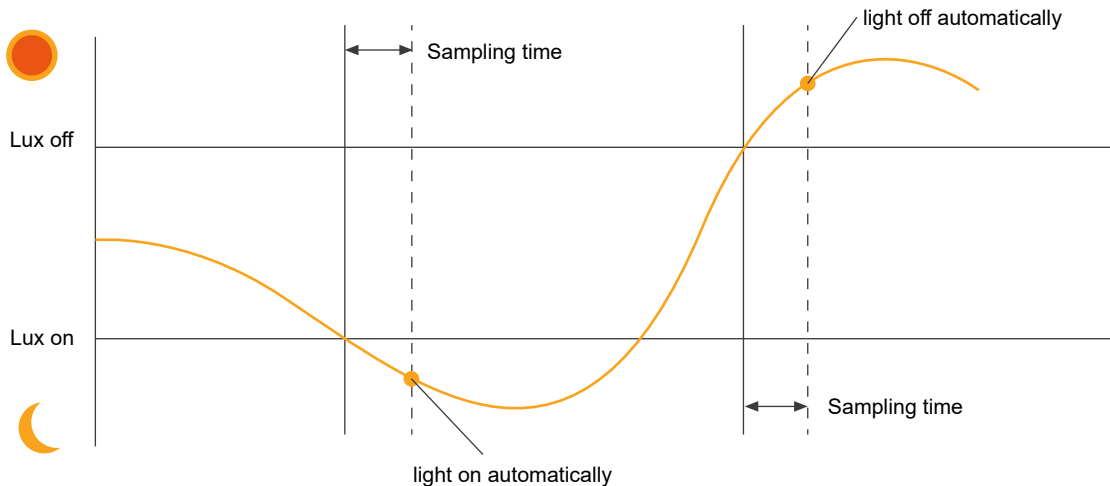
Daylight Priority

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 up to the setting 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;

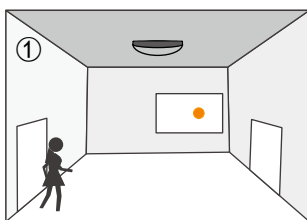
Lux-On function takes effect only when standby dimming period set at $+\infty$.



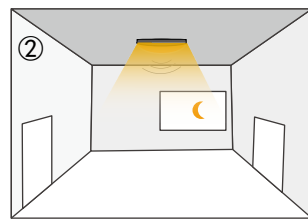
Application

Daylight priority

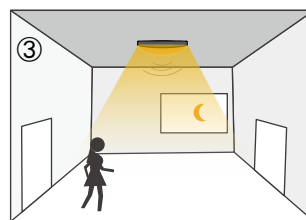
» Lux-On function takes effect only when stand-by dimming period set at $+\infty$.



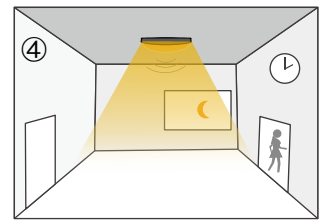
With sufficient daylight, even when motion detected, light remains OFF.



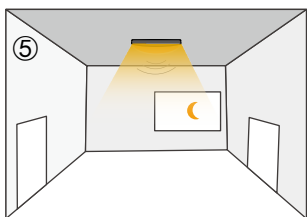
Light automatically on and dim to the stand-by dimming level when ambient brightness is lower than preset lux level.



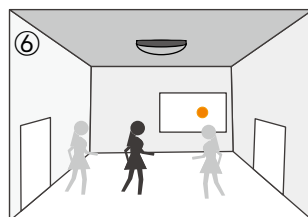
With insufficient ambient brightness, light dims to 100% when motion was detected.



Light keeps on 100% within the holdtime.



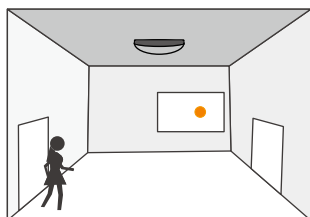
Light dims to standby level if no motion detected after holdtime.



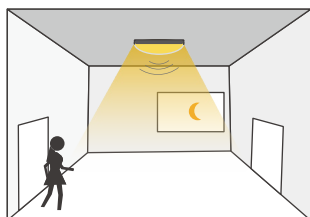
Light off when ambient lux level is higher than preset lux amount even there is still motion.

ON/OFF function

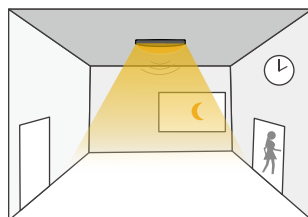
» The daylight threshold is set to "10Lux/25Lux/50Lux, Stand-by period is set to "0s".



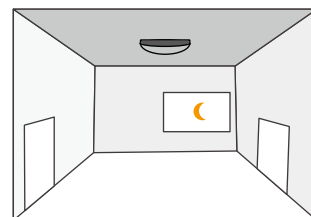
With sufficient daylight, even when motion detected, light remains OFF.



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

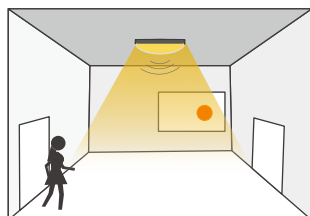


Light keeps on 100% within the holdtime.

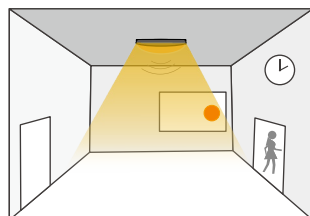


After the last detection and the preset hold time elapsed, light OFF.

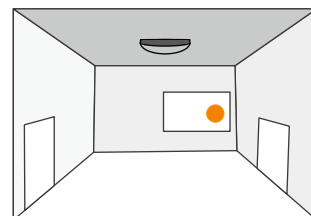
» The daylight threshold is set to "Disable". Light on when detect movement, After people leave, Light off after stand-by period.



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



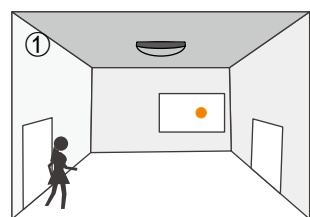
After people leave the detection area, light remains 100% brightness within hold time.



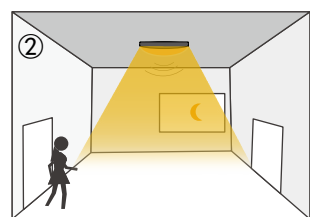
After the last detection and the present hold time elapsed, light OFF.

Dimmable control/Corridor function

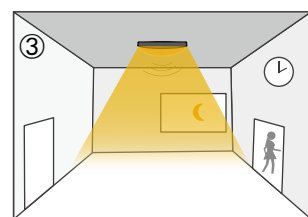
» The daylight threshold is set to "10Lux/25Lux/50Lux, stand-by period is set to "10s/15min".



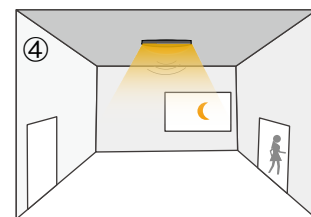
With sufficient daylight, even when motion detected, light remains OFF.



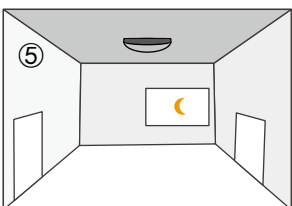
With insufficient ambient brightness, light dims to 100% when motion was detected .



Light keeps on 100% within the holdtime.



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

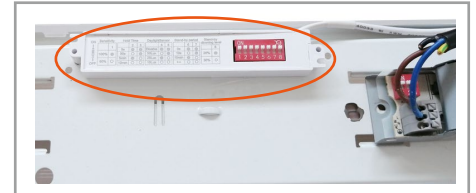
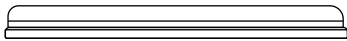
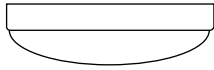


After the stand-by period, light OFF.



Application

- » Train station, Airport, etc.
- » Industrial Lighting: Factory, Warehouse, etc.
- » Commercial Lighting: Office, Supermarket, etc.
- » Public Lighting: Residence, Hospital, School, Metro station



Corridor



Warehouse



Parking



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.

Caution:

This device complies with Part 15 of the FCC rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or change to this equipment. Such modifications or change could void the user's authority to operate the equipment.

This radio transmitter (identify the device by certification number or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement.

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

5G

For 5725-5875 frequency band,

Operations in the 5725-5875 band are restricted to indoor usage only.