

IP65 Standard Weatherproof Batten

Basic, Simple Sensor & Simple Sensor PLUS



Advantages

- Good alternative to fluorescent tube lighting
- Long lifetime compare to traditional lamps
- Reduce energy consumption
- Low maintenance cost

Simple Sensor function

- With 5.8GHz microwave sensor and light sensor
- Time setting for motion detection
- Setting of sensing distance
- Standby brightness selection



Features

- 3 measurement for selection 600mm, 1200mm, 1500mm
- CRI>80
- High efficacy 120Lm/w
- Using **LUMILEDS** 2835 LED chips
- Long lifetime 50,000 hours
- Individual mount or continuous row for surface mounting and suspended mounting
- Connect and link up to 10 battens
- Ideal outdoor lighting solution such as metro stations, car park, corridor, stair case, production line, warehouse, workshops, garage



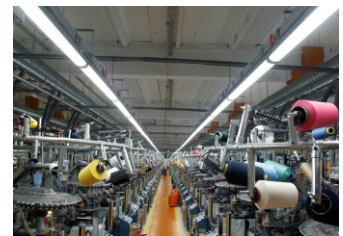
Garage



Car Park



Footbridge



Production Line

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www.mastertechholdings.com

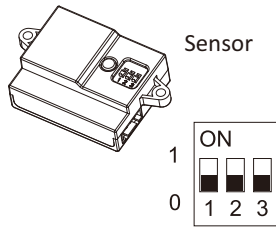
Head Office : Mastertec Holdings Limited
Address : 1812 Fo Tan Industrial Centre, 26-28 Au Pui Wan Street, Shatin, N.T.,
Factory : Guangdong Mage Intelligent Lighting Co. Ltd.
Address : Block2, Beishui Industrial Area, Beishui Intersection, Xingtan, Shunde, Foshan, Guangdong.



Key Specifications

Model	MB6WP10-P	MB6WP20-P	MB12WP20-P	MB12WP40-P	MB15WP30-P	MB15WP60-P
	Single Color					
Complete Fixture						
Max Power	10W	20W	20W	40W	30W	60W
Color Temperature	2700/3000/4000/5000K					
Dimension (H x W x H)	655x130x88mm		1265x130x88mm		1565x130x88mm	
Body	Grey polycarbonate (PC)					
Diffuser	Highly transmission frosted polycarbonate (PC)					
Geartray	Cold roll steel with epoxy powder coated					
IP Rating	65					
IK Rating	10					
Performance Data and Chips						
Lumen Output 2700/3000K	1,100Lm	2,200Lm	2,200Lm	4,400Lm	3,300Lm	6,600Lm
Lumen Output 4000/5000K	1,200Lm	2,400Lm	2,400Lm	4,800Lm	3,600Lm	7,200Lm
Luminous Efficacy	2700/3000K 110Lm/W and 4000/5000K 120Lm/W					
CRI	>80					
Chips Model	LUMILEDS 2835, 3Vdc, 0.5W					
Color Tolerance	≤5 SDCM					
Driver						
Type	PHILIPS Certa type fixed current, non ripple free, non dimmable driver					
Model No.	929001409506	929002141380	929002141380	929002141480	929002141380	929002141680
Class	II					
Input Voltage	220-240, 50Hz					
Input Current	43mA	86mA	86mA	174mA	130mA	260mA
Output Voltage	30-40Vdc					
Output Power	8W	18W	18W	36W	27W	54W
Output Current	300mA	500mA	500mA	1050mA	700mA	1400mA
Power Factor	>0.9					
THD	<30%					
Inrush Current	12.5A	13.6A		16.5A	13.6A	29.7A
Surge Protection	1KV	2KV				
Short Circuit Protection	Yes					
Overload Protection	Yes					
Over Power Protection	Yes					
Working Humidity	10 - 90%					
Ambient Temperature	-20 to 50°C					
Warranty	50,000 hours or 5 years whichever comes first					
Complete Set Approval						
Compliant	CE, RCM, RoHS					

Simple Sensor Functions (SS)



Simple Sensor

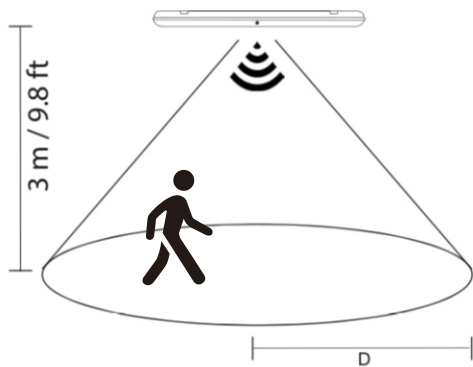
- With 5.8 GHz microwave sensor & light sensor

1. Dip Switch Setting

Function	Timer Setting	Sensing Distance	Standby Brightness
Dip switch	1	2	3
1	If no motion is detected in 10 mins, the luminaire will dim down to 50% brightness. If no motion is detected in another 5 mins, the luminaire will dim down to standby light mode.	<input checked="" type="checkbox"/> 10min (dim to 50%) <input type="checkbox"/> 5min (dim to standby)	<input checked="" type="checkbox"/> Far <input type="checkbox"/> 6m
0	If no motion is detected in 3 mins, the luminaire will dim down to 50% brightness. If no motion is detected in another 2 mins, the luminaire will dim down to standby light mode.	<input type="checkbox"/> 3min (dim to 50%) <input checked="" type="checkbox"/> 2min (dim to standby)	<input type="checkbox"/> 20% <input checked="" type="checkbox"/> Lights off

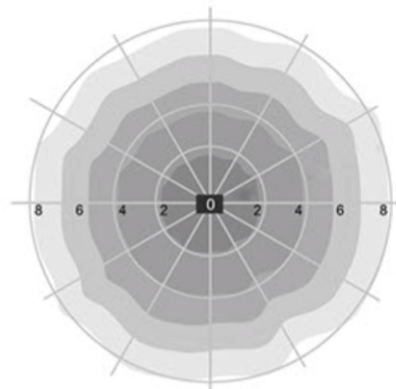


Sensing distance



Near (3m) / Far (6m)

Detection Patterns (Installed on the ceiling)



360°

2. Auto Test



Test mode to indicate the radar function is enabled

- Once switch ON the light, it will be turned off automatically after 5 sec. Any motion trigger the sensor will go back to normal function settings.
- This auto test will repeat the test function each time if the wall switch is switch off and on again.

3. Switching Microwave Sensor ON & OFF

Quickly switching the wall switch ON & OFF 3 times.



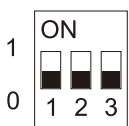
- Sensor **OFF** :

* luminaire flashes 2 times to indicate the sensor is **OFF**, lights will then stay **ON**

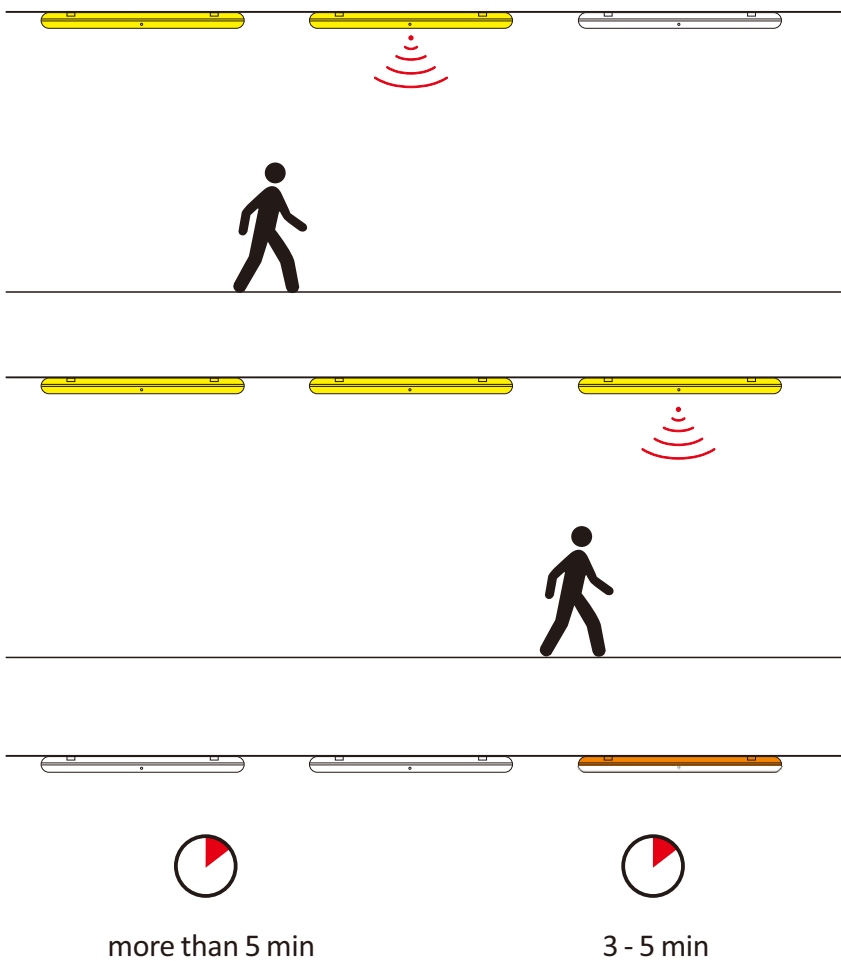
- Sensor **ON** :

* luminaire flashes 2 times to indicate the sensor is **ON**, and the lights will automatically go **OFF**

Example of Corridor Setting



- Time setting : 5min
- Sensing distance: Near
- Standby brightness: 0%

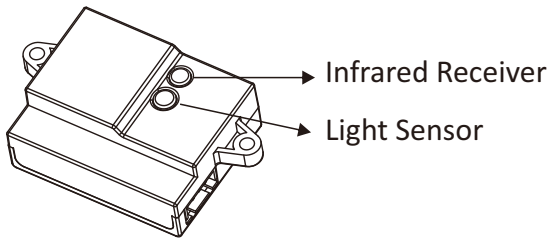


1. When motion sensor has been triggered, the luminaire turns to 100% brightness.

2. If there's no detection of motion, the controller will start count to 5 minutes delay time.

3. After 3 min, luminaire will dim down to 50% brightness, and switch OFF after 2 min.

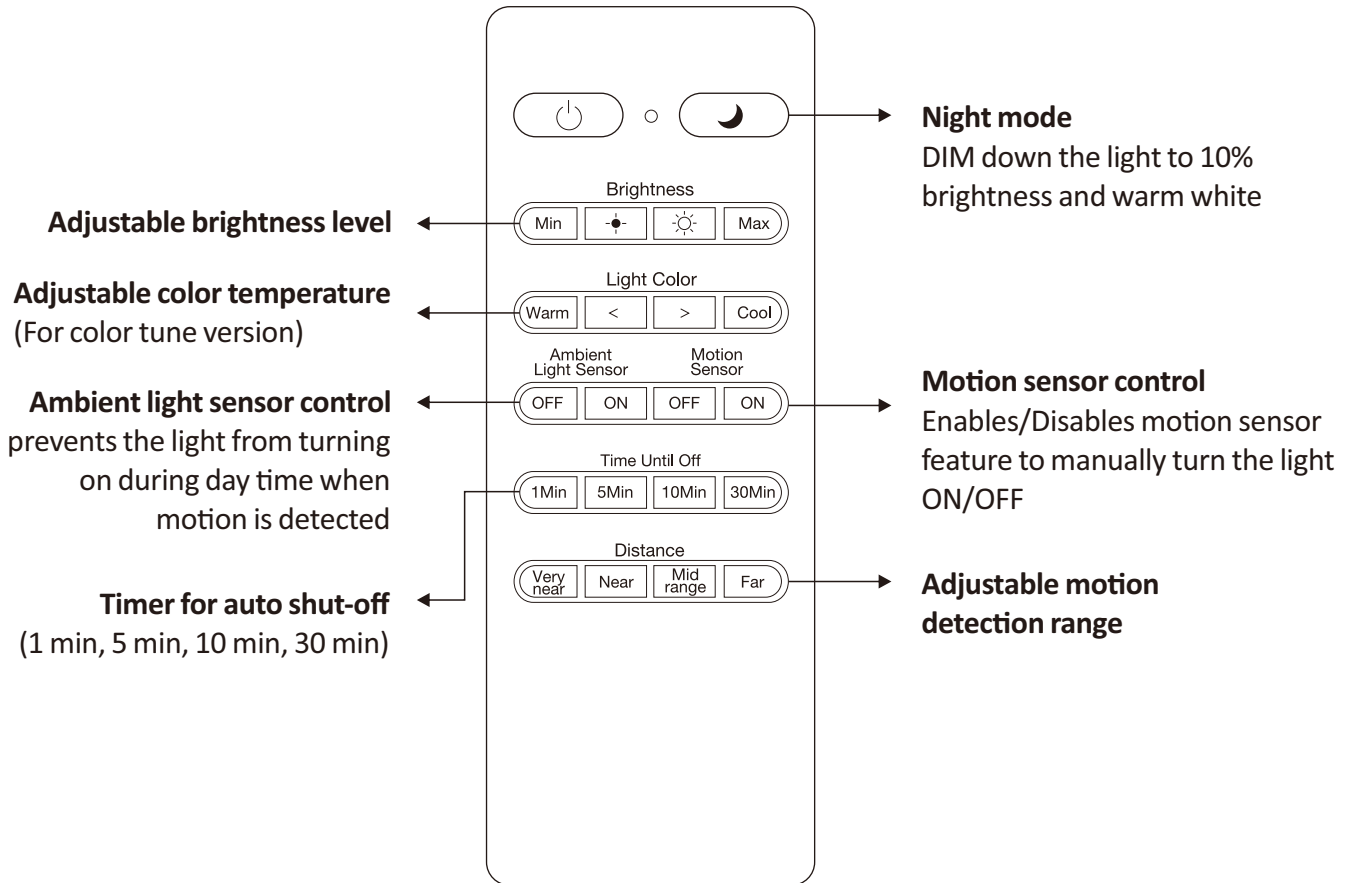
Simple Sensor PLUS Functions (SP)



Simple Sensor PLUS

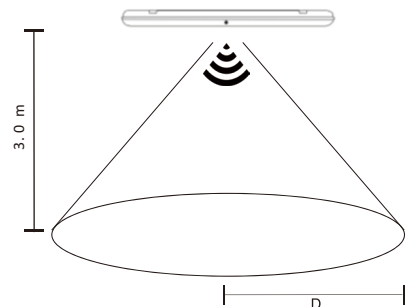
- With 5.8 GHz microwave sensor & Infrared Receiver & light sensor

Remote Settings



Distance

Distance is the maximum motion detection range. You can choose from various settings: Very near, Near, Mid-range and Far. The sensing distance would be ranged from around 1 m to 7 m. You may refer to the table below for the maximum sensing distance for the light installed at a height of 3.0 m.



Setting	Maximum Sensing Distance (D)
Very near	1 m - 2 m
Near	2 m - 3.5 m
Mid-range	3.5 m - 5 m
Far	5 m - 7 m

Key Specifications

Model	MB6WP10-SS MB6WP10-SP	MB6WP20-SS MB6WP20-SP	MB12WP20-SS MB12WP20-SP	MB6WP10-SS MB6WP10-SP	MB6WP20-SS MB6WP20-SP	MB12WP20-SS MB12WP20-SP
Complete Fixture	Single color with Simple sensor & Simple sensor PLUS					
Max Power	10W	20W	20W	40W	30W	60W
Color Temperature	2700/3000/4000/5000K					
Dimension (H x W x H)	655x130x88mm		1265x130x88mm		1565x130x88mm	
Body	Grey polycarbonate (PC)					
Diffuser	Highly transmission frosted polycarbonate (PC)					
Geartray	Cold roll steel with epoxy powder coated					
IP Rating	65					
IK Rating	10					
Performance Data and Chips						
Lumen Output 2700/3000K	1,100Lm	2,200Lm	2,200Lm	4,400Lm	3,300Lm	6,600Lm
Lumen Output 4000/5000K	1,200Lm	2,400Lm	2,400Lm	4,800Lm	3,600Lm	7,200Lm
Luminous Efficacy	2700/3000K 110Lm/W and 4000/5000K 120Lm/W					
CRI	>80					
Chips Model	LUMILEDS 2835, 3Vdc, 0.5W					
Color Tolerance	≤5 SDCM					
Driver						
Type	PWM driver, completed with Sensor Control					
Model No.	929001409506	929002141380	929002141380	929002141480	929002141380	929002141680
Class	II					
Input Voltage	220-240, 50Hz					
Input Current	43mA	86mA	86mA	174mA	130mA	260mA
Output Voltage	30-40Vdc					
Output Power	8W	18W	18W	36W	27W	54W
Output Current	300mA	500mA	500mA	1050mA	700mA	1400mA
Power Factor	>0.9					
THD	<30%					
Inrush Current	12.5A	13.6A		16.5A	13.6A	29.7A
Surge Protection	1KV	2KV				
Short Circuit Protection	Yes					
Overload Protection	Yes					
Over Power Protection	Yes					
Working Humidity	10 - 90%					
Ambient Temperature	-20 to 50°C					
Warranty	50,000 hours or 5 years whichever comes first					
Complete Set Approval						
Compliant	CE, RCM, RoHS					

Sensor Specification

Model	MBxWPx-SS, MBxWPx-SS-EM		MBxWPx-SP, MBxWPx-SP-EM
Electrical Parameters			
Input Voltage	DC5V		
Input Current	20-25mA		
Standby Power	<0.9W		
Output Voltage	DC 5V(PWM)		
Microwave Sensor Parameters			
Microwave Frequency	5.8GHz ± 75MHz		
Transmission Power	<0.5m W		
Remote Controller	N.A.		IR remote

Emergency Model Technical Data

Model	MB6WPS20-SS-EM MB6WPS20-SP-EM		MB12WPS40-SS-EM MB12WPS40-SP-EM		MB15WPS60-SS-EM MB15WPS60-SP-EM
Total Rating	20W		40W		60W
Inverter			Battery		
Input Voltage	220-240Vac, 50Hz		Type	2 x 18650 Li-Fe Po4	
Output Voltage	36Vdc, SELV		Voltage	6.4Vdc	
Monthly and Annual Test	Self testing per month and per year		Capacity	1500mAH	
System	Auto test		Minimum Lumen Output	180lm 2W > 3 hours	
Type	Maintained		Max charging time to 100%	< 6 hours	
Approval Standard					
Compliant	CE, RCM, RoHS				
Packing Details					
Inner Box	1 color printed end cover				
Outer Cartoon	6PCS Per Cartoon, 3 layer corrugated cartoon box				

Installation Method



Ceiling Mounted
Good for most installation environment.



Pendant Mounted
This installation method is good for high ceiling taller than 3m.

With Emergency

The Need for Emergency Lighting

The tragedies in the past bring us more focus on the importance of life safety, emergency lighting and compliance. Emergency lighting serve as an example of continuing needs on safety means allow egress/escape for building occupants during emergency situations including:



- a. When utility power failure, utility power voltage reduction (brownout) below the minimum required standards or
- b. Power interruptions in the building, including total power loss or individual phase or branch circuit failure, fire and/or smoke in the building, and
- c. Natural disaster including earthquake, tornado, hurricane, flood.

Every commercial, industrial, and institutional building is required to be equipped with various types of life safety equipment.

In short, general life safety concerns with increasing insurance and liability considerations, make it incumbent upon everyone involved.

Emergency lighting should be treated as life safety equipment.

Emergency Advantages :

Provide safe and constant lighting for people within the premises to evacuate calmly when the main power is cutoff. When the main power being cutoff for some reason, you can reduce the amount of expensive hours lost to non-productivity. When a fire occurs and there is a blackout, emergency lighting will make it easier to leave the building safely and calmly for everyone.

Features:

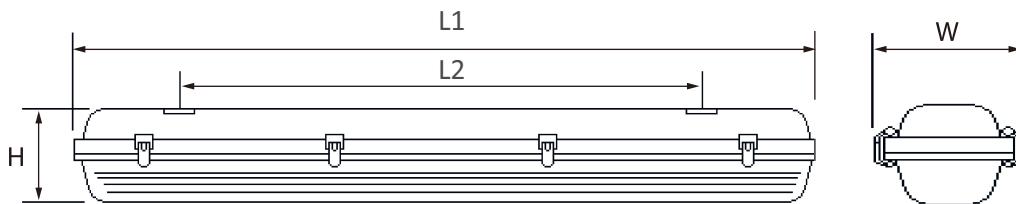
Self-diagnostics System

Under the law, emergency lighting systems need to be regularly tested and maintained in full working order.

In order to avoid the high manpower cost and disruption of manual testing, automatic test systems should be considered.

Autotest is a stand alone self-test system, designed for use with self-contained emergency lighting, the testing module self calibrates and carries out testing at predetermined intervals.

Dimensions



Model	Length L1(mm)	Length L2(mm)	Width W(mm)	Height H1(mm)
MB6WP20	655	420	130	88
MB12WP40	1265	905	130	88
MB15WP60	1565	905	130	88

