



Microwave Sensor with Corridor Function Add On Module Installation Instructions

LTMS



IP20



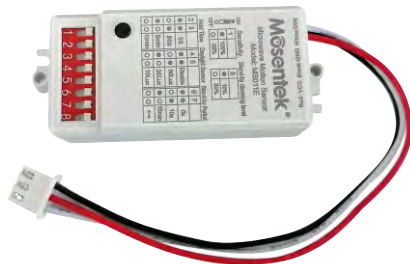
These instructions are in addition to the standard luminaire instructions that were supplied with the product you have purchased. Please read them carefully and install the luminaire as per instructions, then keep the instructions for future reference and maintenance.

IMPORTANT SAFETY INFORMATION

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE INSTALLATION CODES.

INSTALLATION PRECAUTIONS

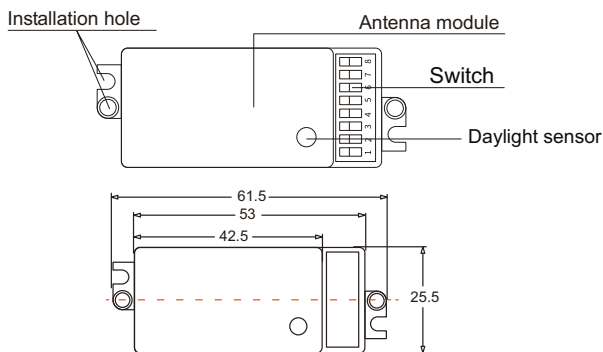
1. The luminaire should be installed as instructed in the Instructions sheet supplied.
2. POWER MUST BE TURNED OFF AT THE MAINS POWER PANEL OR FUSE BOX PRIOR TO INSTALLATION OR REPLACING THE LUMINAIRE.
3. It is recommended that luminaires are installed by a qualified electrician ensuring the installation complies to current IEE wiring regulations & local building control.
4. This sensor is to be connected to a 12V/DC power source.
Connecting to a different power source may create a hazard and will void the warranty.
5. The detected surface should not be shielded by metal objects.
6. Do not install next to large operating machines such as ventilator/ceiling fan to avoid false triggering by machine vibration.
7. Suitable for indoor installation to avoid false triggering due to external factors such as rain, wind or tree swings.
8. Do not attempt to open the unit housing. There are no serviceable parts inside.
9. We will not accept responsibility for any claims arising from a poor installation.



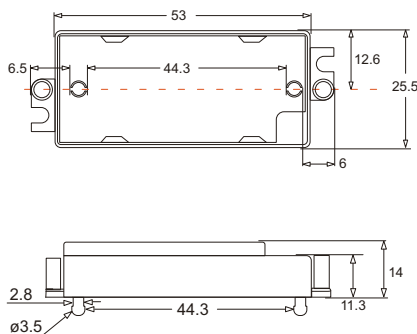
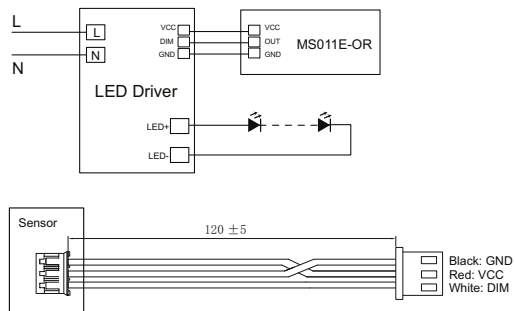
FEATURES

- » 12VDC input, PWM dimming output, daylight sensor build in.
- » Tri-level dimming control with corridor function.
- » DIP Switch setting.
- » Build in with sensor function override.
- » 5 years warranty.

DIMENSIONS (mm)

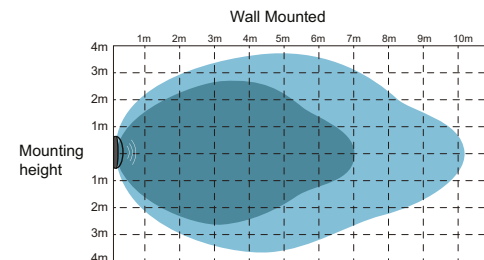
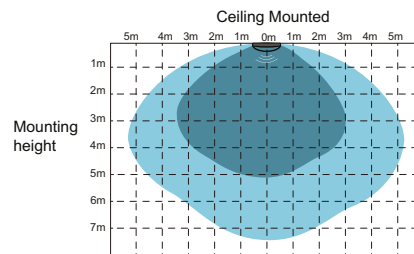


WIRING DIAGRAM



DETECTION COVERAGE

Sensitivity : 25% 50% 75% 100%



TECHNICAL SPECIFICATION

Input	Operating voltage	12VDC
	Operating current	22mA
Output	Output	10V PWM
Sensor Parameters	Microwave frequency	5.8GHz±75MHz
	Microwave power	<0.3mW
	Sensitivity	100%/50%
	Hold time	5s/90s/5min/10min
	Daylight threshold	Disable/50Lux/25Lux/10Lux
	Stand-by period	0s/10s/15min/+∞
	Stand-by dimming level	10%/30%
	Mounting height	Max.6m (Ceiling mounted)
	Detection range	Radius 6m (Ceiling mounted)
	Operating temperature	-35°C~70°C
	IP rating	IP20
	Size	L*W*H: 61.5*25.5*14(Max)mm
	Warranty	5 years

SENSOR SETTING

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 maximum 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 works everytime it detects motion regardless the ambient brightness.

Stand-by period

DIP switch	6	7
0s	○	●
10s	○	●
15min	●	○
+∞	○	○

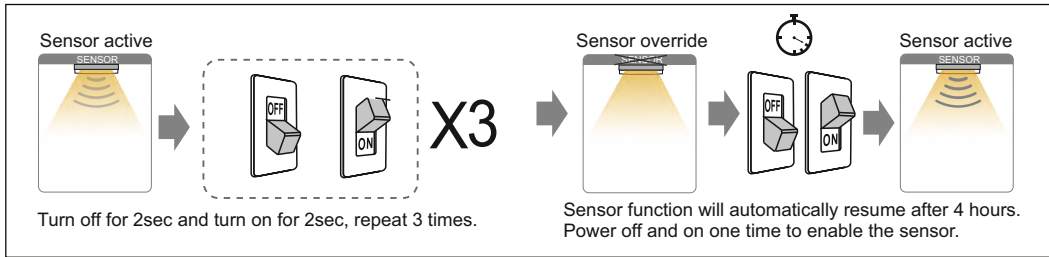
The period of light keeping low output before it's completely switched off. When it's preset as "+∞", the light always keep at low output if no movement in the detection area and doesn't turn off.

Stand-by dimming level

DIP switch	8
10%	●
30%	○

The dimming level in the standby period.

SENSOR OVERRIDE FUNCTION



Sensor Function: Override & Enable

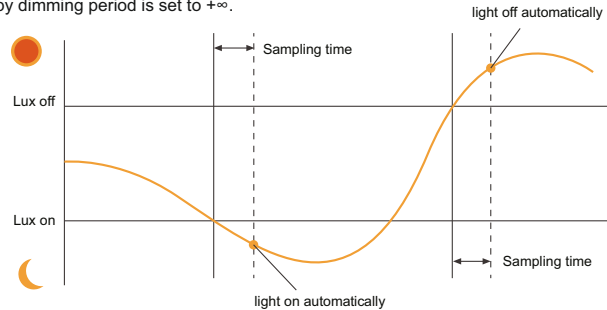
1. With the light powered on, turn off for 2s and turn on for 2s, repeat 3 times to disable the sensor. The light will stay on 100% for 4 hours.
2. After the light stays on 4 hours, the sensor will be enabled automatic, and light will work in sensor mode.
3. User can switch OFF/ON the light one time to enable the sensor during the 4 hours mode.
4. The sensor will turn off the light and turn on when it detect motion if sensor mode was enabled.

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 if no motion was detected. When the ambient light is up to the setting value, the sensor will switch off the light fixtures even if there is still motion.

NOTE: The Lux-on effect takes effect only when stand-by dimming period is set to +∞.

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

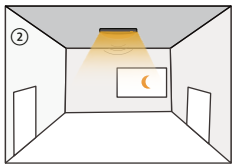


DAYLIGHT PRIORITY APPLICATION

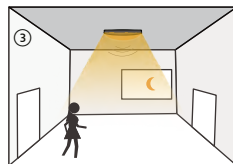
Lux-On function takes effect only when stand-by dimming period set at +∞.



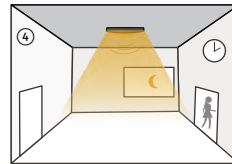
With sufficient daylight, even when motion is detected, light remains OFF.



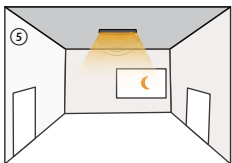
Light turns automatically on and dim to the stand-by dimming level when ambient brightness is lower than preset lux level.



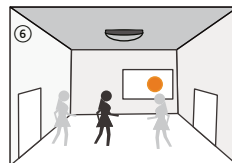
With insufficient ambient brightness, light dims to 100% when motion was detected.



Light stays at 100% within the holdtime.



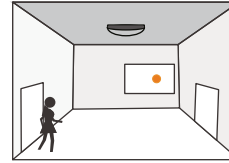
Light dims to standby level if no motion is detected after holdtime.



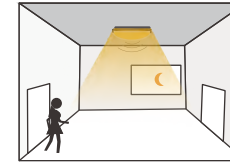
Light off when ambient lux level is higher than preset lux amount even if there is still motion.

AUTOMATICALLY ON/OFF FUNCTION

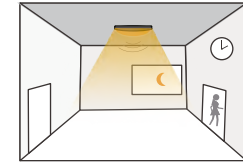
» The daylight threshold is set to "10Lux / 25Lux / 50Lux", Stand-by period is set to "0".



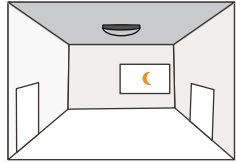
With sufficient daylight, even when motion is detected, light remains OFF.



With insufficient daylight, when motion is detected, light will turn ON.



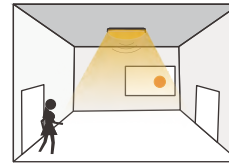
After people leave the detection area, light remains at 100% brightness within hold-time.



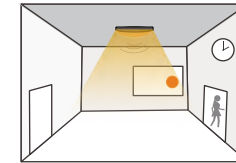
After the last detection and the preset hold-time elapsed, the light will turn OFF.

» The daylight threshold is set to "Disable".

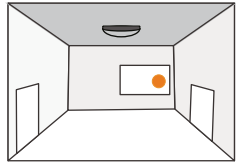
Light will turn on when movement is detected, light will turn off after hold-time if there is no movement.



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



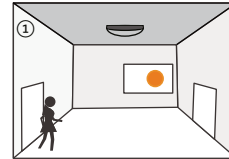
After people leave the detection area, light remains at 100% brightness within hold-time.



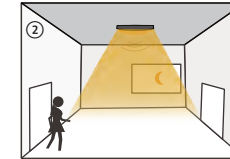
After the last detection and the present hold time elapsed, the light will turn OFF.

DIMMABLE CONTROL / CORRIDOR FUNCTION

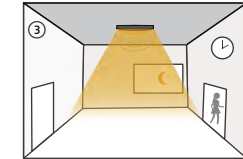
» The daylight threshold is set to "10Lux / 25Lux / 50Lux", Stand-by period is set to "10s/15min".



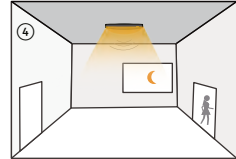
With sufficient daylight, even when motion is detected, light remains OFF.



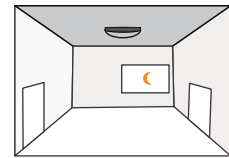
With insufficient ambient brightness, light dims to 100% when motion is detected.



Light keeps on 100% within the holdtime.



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



After the stand-by period, light turns OFF.



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

TROUBLESHOOTING

Q1: Does not function at all

- Make sure the power switch (if applicable) is ON and check if the wiring is correct.
- Check that the circuit breaker, fuse, and main circuit breaker or main power switch are ON.
- Should the light level be too bright it may be necessary to increase the LUX setting.

Q2: The sensor light is always ON

- Movement occurred, but not identified by the sensor (movement behind wall, movement of a small object in immediate sensor vicinity etc.).

For further information visit www.tlc-direct.co.uk