LED LITE™
Energy Saving LED

Microwave Sensor Add On for use with LTWPLED Fittings Installation Instructions

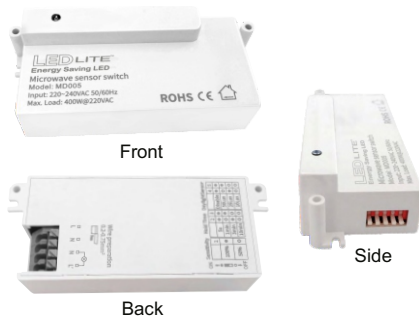# LTWPMW

UKCA   CE   IP20   RoHS

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.
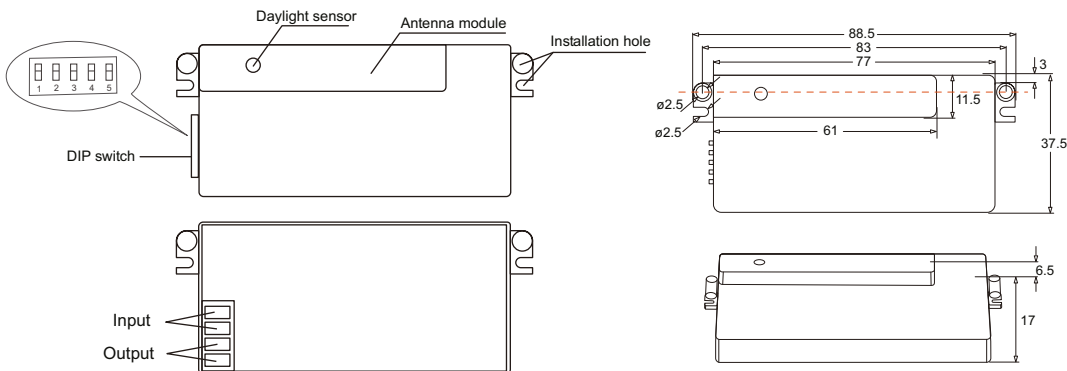
IMPORTANT SAFETY INFORMATION

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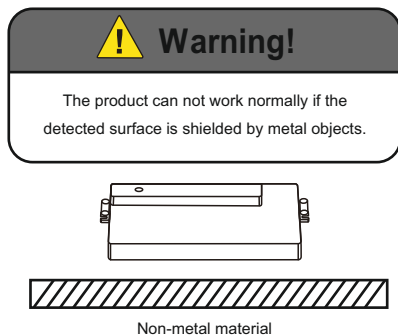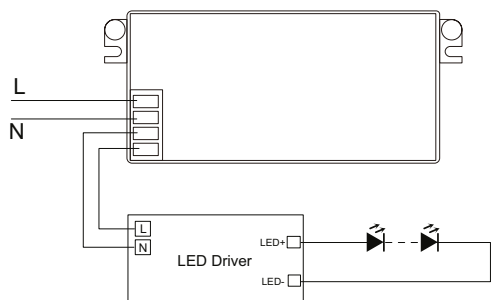
INSTALLATION PRECAUTIONS

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 230±10%V/AC, 50 or 60 Hz power source. Connecting to a different power source may create a hazard and will void the warranty.
5. Do not install next to large operating machines such as ventilator/ceiling fan to avoid false triggering by machine vibration.
6. Suitable for indoor installation to avoid false triggering due to external factors such as rain, wind or tree swings.
7. Do not attempt to open the unit housing. There are no serviceable parts inside.
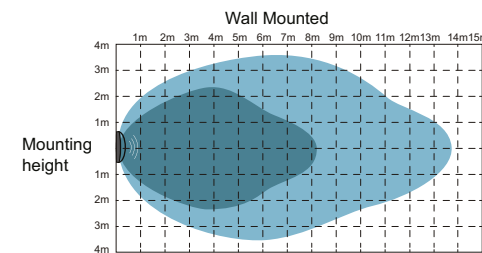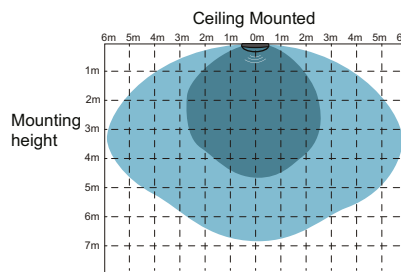8. We will not accept responsibility for any claims arising from a poor installation.

Front

Back

Side

DIMENSIONS (mm)

Daylight sensor
Antenna module
Installation hole
DIP switch
Input
Output

88.5
83
77
61
ø2.5
ø2.5
11.5
3
37.5
6.5
17

WIRING DIAGRAM

L
N
LED Driver
LED+
LED-

⚠ Warning!

The product can not work normally if the detected surface is shielded by metal objects.

Non-metal material

DETECTION COVERAGE

Sensitivity: 50%   100%

Ceiling Mounted

Mounting height

Wall Mounted

Mounting height

TECHNICAL SPECIFICATION

Input	Operating voltage	220-240VAC 50/60Hz
	Maximum Load	Max. 400W @220VAC
	Stand-by power	<0.5W
Output	Operation Mode	ON/OFF
Sensor Parameters	Microwave frequency	5.8GHz±75MHz
	Microwave power	<0.3mW
	Sensitivity	100%/50%
	Hold time	5s/1min/3min/10min
	Daylight threshold	Disable/50Lux/25Lux/10Lux
	Mounting height	Max.5m (Ceiling mounted); 1.5-1.8m (Wall Mounted)
	Detection range	Radius Max.6m (Ceiling mounted 3m); Max.10m (Wall Mounted 1.8m)
	Detection Angle	30°-150°
	Operating temperature	-35°C~70°C
	IP rating	IP20
	size (L*W*H)	88.5*37.5*13.5mm
	Warranty	5 years

SENSOR SETTING

OFF   ON

Sensitivity	
DIP switch	1
50%	O
100%	●

Hold-time		
DIP switch	2	3
10min	O	O
3min	●	O
1min	O	●
5s	●	●

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

Detection Area
Detection area can be reduced by selecting the combination of DIP switches. 100% sensitivity means full detection range.
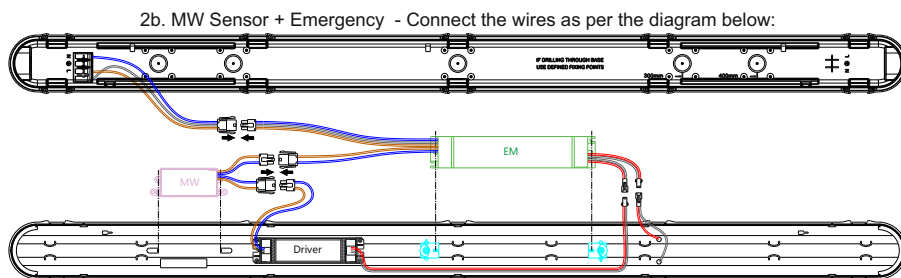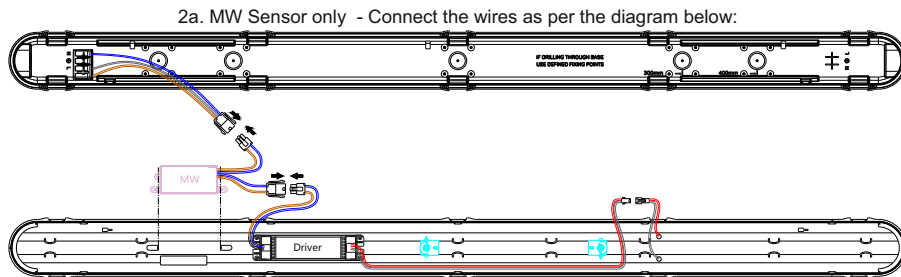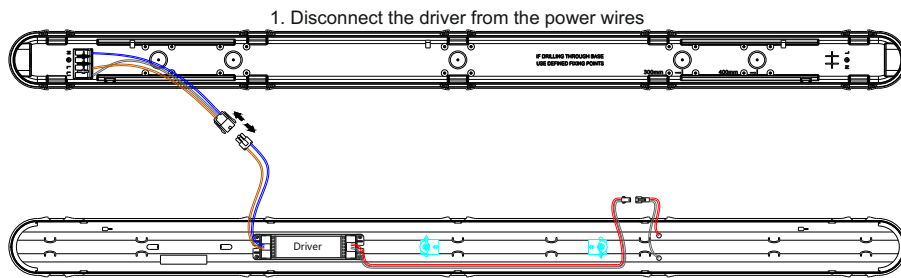
Hold Time
Refers to the time period the lamps remain at 100% brightness after no motion is detected.

Daylight Threshold
The sensor can be set to allow the fitting to illuminate below a defines ambient brightness threshold.
When set to Disable mode, the sensor will switch on the light when motion is detected regardless of ambient light level.
50 lux = Twilight operation.
10 lux = Darkness operation only.

1 Open the fitting by unclipping the steel fastening clips and lock them in 90° position.

2 Install the MW sensor at the position clearly marked (MW) on the geartray.

3 Lock the MW sensor in position by bending the metal tabs.

4 Plug in the wires as per the wiring diagrams below. (Sensor or EM + Sensor)
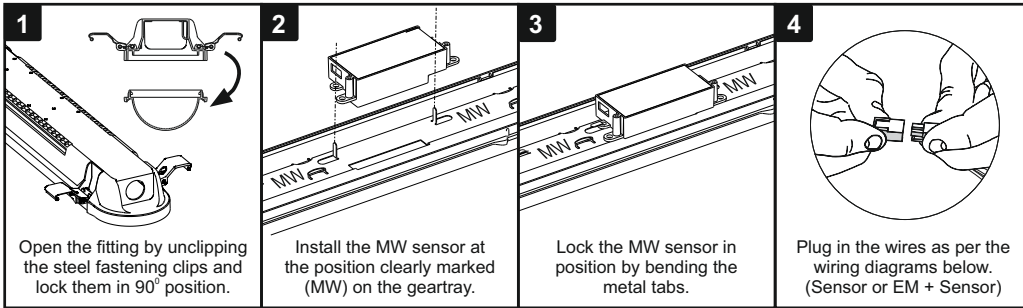
≫ PLUG & PLAY INSTALLATION INSTRUCTIONS

1. Disconnect the driver from the power wires

2a. MW Sensor only - Connect the wires as per the diagram below:

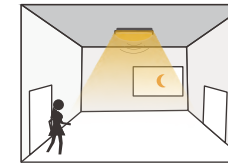### 2b. MW Sensor + Emergency - Connect the wires as per the diagram below:
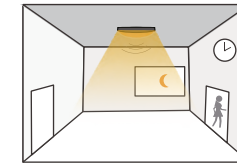

≫ AUTOMATICALLY ON/OFF FUNCTION

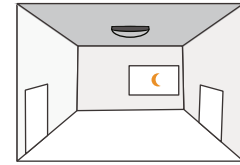≫ The daylight threshold is set to "10Lux / 25Lux / 50Lux"
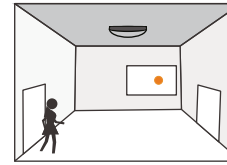
With sufficient daylight, even when motion is detected, light remains OFF.

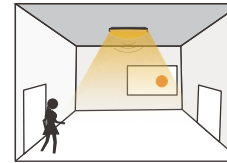With insufficient daylight, when motion is detected, light will turn ON.

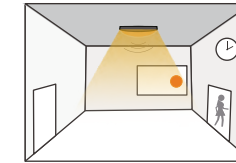After people leave the detection area, light remains at 100% brightness within hold-time.

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

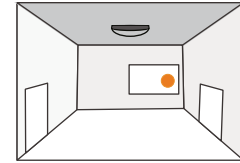≫ The daylight threshold is set to "Disable".
Light will turn on when movement is detected, light will turn off after hold-time if there is no movement.

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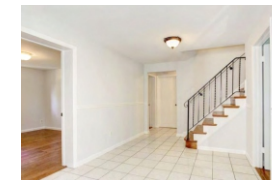
After the last detection and the present hold time elapsed, the light will turn OFF.

≫ APPLICATIONS

Corridor

Staircase

Parking

≫ 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

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