

CLICK FULL SENSOR

SKU# 177093

Rated Voltage 220-240V~ 50Hz

Thank you for purchasing this quality MFL product. To ensure correct function and safety, please read and follow all instructions carefully before assembly, installation and use. Please keep instructions for future reference.

Warranty

- This sensor is covered by a 12 month warranty. The warranty is from date of purchase, not the date of installation.
- If the sensor is not assembled and installed by a licensed electrician the warranty will be void.
- Please retain proof of purchase and evidence of installation by a licensed electrician for any warranty enquiries.
- Warranty will be void if there is any damage due to improper usage or modification to the sensor.
- This sensor is not suitable for use with dimmer switches. Warranty will be void if the sensor is used on the same circuit which has a dimmer switch.
- Failure to comply with the instructions in this manual may increase the risk of damage or injury and will void warranty.

Installation Requirements

- This product must be assembled and installed by a licensed electrician.
- All wiring and installation of this product must adhere to the latest local and national wiring rules eg. AS/NZS 3000 Electrical installations.
- The rated load for the sensor depends on the lamp/luminaire used:
LED: Max. 200W
Fluorescent: Max. 400W
Incandescent: Max. 800W
- This product is suitable for indoor use only.
- This is a Class II product and must be maintained during wiring and installation.
- The sensor is not suitable to use with dimmer switches and must not be used with a circuit which has a dimmer.
- See the **Sensor Information** section in this instruction manual for additional information.
- Lay out all the components on a smooth surface and make sure there are no components missing before assembling. If parts are missing, return the complete product to the place of purchase for inspection or replacement.
- Check whether the fitting has been damaged during transport. Do not operate/install any product which appears damaged in any way. Return the complete product to the place of purchase for inspection, repair or replacement.
- Ensure power to the circuit you are working on has been switched OFF before commencing any electrical work.

Sensor Information

PIR (PASSIVE INFRA RED) SENSOR:

This product has a PIR (Passive Infra Red) sensing device which continuously scans the operating zone and immediately switches on when it detects movement in that area. While there is movement detected within the sensor range, the sensor, will remain on.

SENSOR LOCATION & INFORMATION:

To find a suitable location for installation, please take into consideration the following points:

- The ideal mounting height for this product is between 2.2m to 4m above the detection area. Fig.1
- The detection area is approximately 6 metre diameter at an angle of 360° wide. This may vary depending on the mounting height and location. Fig. 2
- The detection area may also alter at different temperatures. PIR sensors are more sensitive in cold weather than warm weather.
- The sensor has better sensitivity with movement across the detection area.
- The sensor has reduced sensitivity with movement towards and away from the detection area.
- If movement is made walking directly towards or away from the sensor and not across, the apparent detection range will be substantially reduced.
- To avoid false triggering, the sensor should be directed away from potential heat sources, such as barbecues, air conditioners, air vent, light etc.
- Avoid installing the product in close proximity or on the same circuit to any fluorescent light fittings or ceiling fans. RFI (Radio Frequency Interference) may cause the sensor to switch on unintentionally.
- Do not aim the sensor towards reflective surfaces, such as smooth white walls, mirrors etc.
- It is recommended that the sensor is installed on its own switch and does not interconnect with other lights on the same switch as it may cause false triggering.

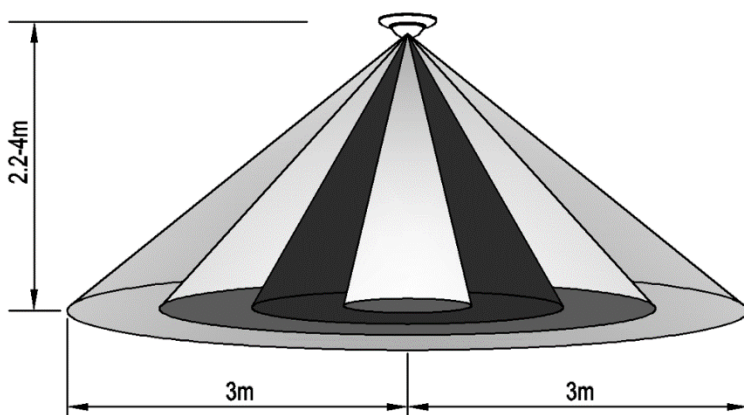


Fig. 1

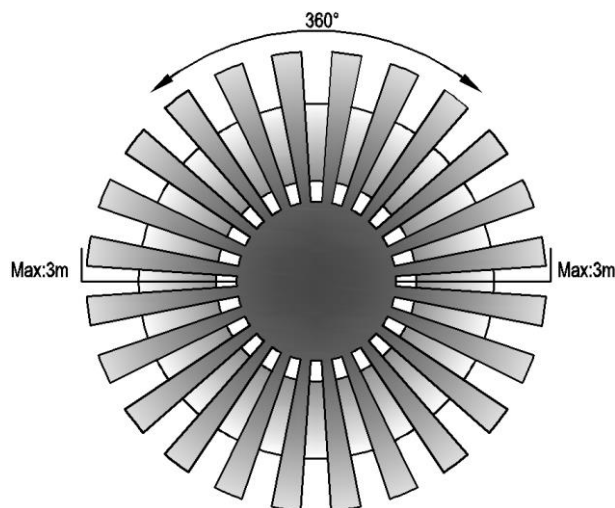


Fig. 2

Installation Directions

Remove all packaging material from the product and be careful not to throw away accessories that may be hidden within the packaging material.

TRIM INSTALLATION

1. Cut an installation hole of Ø 92mm into the ceiling. Fig.1
2. Press the springs (C) up and in towards the frame (B) and install the frame (B) into the cut-out hole. Fig.2
3. Remove the PIR sensor (D) from the inner frame (F) by loosening the grub screws with an allen key. Fig.3
4. Remove the lens (E) from the sensor (D) by rotating it anti-clockwise. Fig. 3 & 4

SENSOR SETTINGS:

DURATION TIME: Adjust the duration time by turning the “TIME” knob, the length of time the switch will remain on after activation can be adjusted from 10secs ±5 to 15mins ±2. The duration time is pre-set to 3 minutes;

NOTE: Once the sensor has been triggered by the PIR sensor, any subsequent detection will start the timed period again from the beginning, the sensor will remain on until there is no movement detected.

LUX LEVEL: Adjust the LUX level by turning the “LUX” knob to change the LUX level from 3 lux to 2000 lux. The sensor will switch on when the ambient light is lower than the setting LUX level. The LUX lever is pre-set to 30 lux.

5. Reinstall the lens on to the sensor and the sensor back in to inner frame.
6. Remove the terminal block cover by loosening the screw. Connect the mains supply wire to the terminal block. Fig. 5

Mains Supply Wire

Neutral – Blue

Live – Brown

Terminal Block Label

N (Neutral)

L (Live)

Connect the luminaire wires to the terminal block.

Luminaire Wire

Neutral – Blue

Live – Brown

Terminal Block Label

N (Neutral)

A (Live)

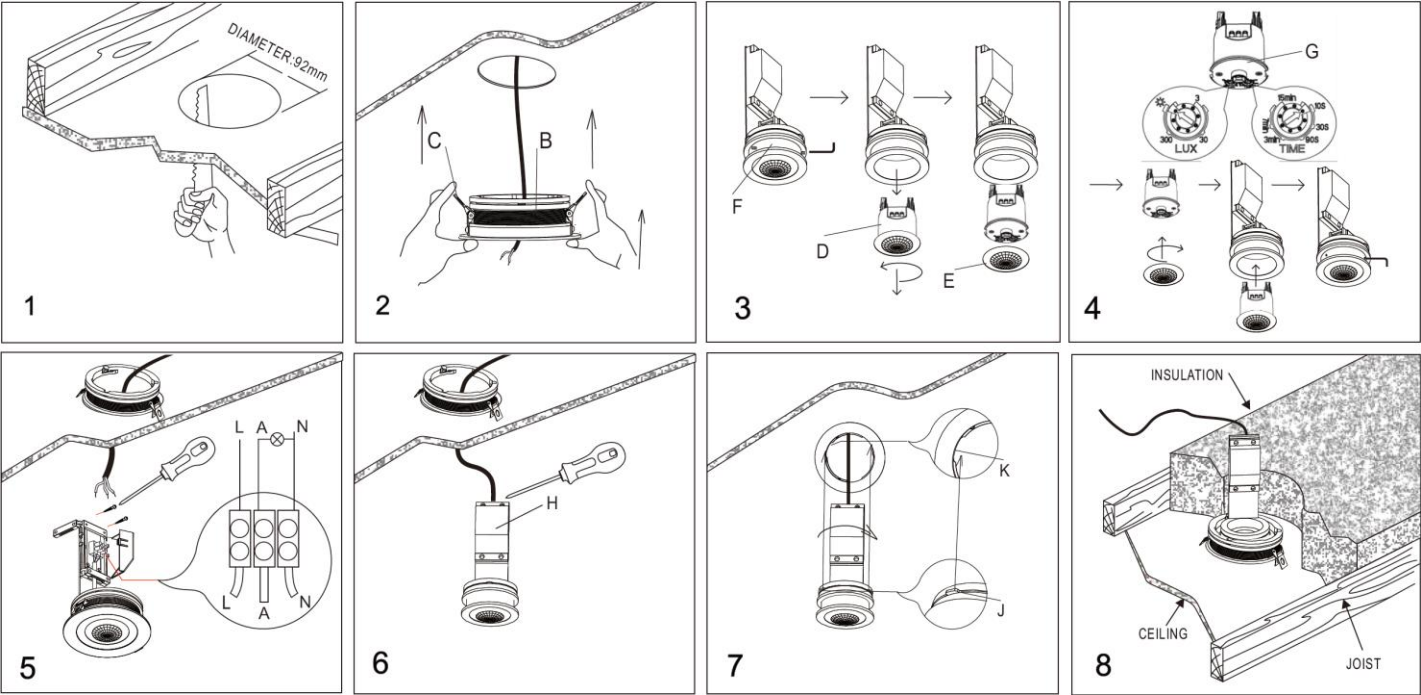
7. Ensure that the wires are secure and no bare wires are exposed. Secure the mains supply wire and luminaire wires with the cord anchorage by tightening the screws. Fig. 6
8. Install the cover back onto the terminal block and secure with the screw. Fig. 6
9. Insert the sensor assembly (H) into the frame (B) and secure it by rotating the tabs (J) into the grooves (K) until it locks into position. Fig.7
10. Sensor function:

AUTO MODE: Switch on the wall switch to the sensor, the light connected to the sensor will be on-off-on, after 12 seconds the sensor will be in the auto mode. The sensor will switch the lights on and off automatically.

MANUAL MODE: While in auto mode, switch the wall switch OFF-ON-OFF-ON within 3 seconds, the sensor will be continuously on for 8 hours (manual mode). After 8 hours, the sensor will return back to the auto mode.

RESET: To return the sensor to auto mode during manual mode, turn the switch OFF for at least 20 seconds and ON again. The sensor will now be in auto mode.

TRIM INSTALLATION DIAGRAM



TRIMLESS INSTALLATION

SKU# 177092 - Trimless Frame Kit is required for installation, this is sold separately and contains Parts C & D.

1. Remove the trim (B) from the frame body (A). Install the trimless frame (D - not included, sold separately) and the ring (C - not included, sold separately) onto the frame body (A). Fig.1
2. Cut an installation hole of Ø 92mm into the ceiling. Fig.2
3. Insert the trimless frame assembly (A, C, D) into the ceiling and align with the installation hole. Fig.3
4. Secure the trimless frame (A,C ,D) by installing two screws through the ceiling and allow the head to countersink into the plasterboard. Fig. 4 The screw heads should be countersunk into the plasterboard by 1-2mm. Fig. 5
5. Adjust the ring (C) so it is 1-2mm above the plaster board level.
6. Plaster the ceiling to cover the screw heads and the ring (C). Wait for it to dry Fig. 6 Sand back the plaster until the surface is smooth Fig. 7 Repaint the ceiling Fig. 8
7. Remove the PIR sensor (F) from the inner frame (E) by loosening the grub screws with an allen key. Fig.9
8. Remove the lens (G) from the sensor (F) by rotating it anti-clockwise. Fig.9 & 10

SENSOR SETTINGS:

DURATION TIME: Adjust the duration time by turning the “TIME” knob, the length of time the switch will remain on after activation can be adjusted from 10secs ±5 to 15mins ±2. The duration time is pre-set to 3 minutes;

NOTE: Once the sensor has been triggered by the PIR sensor, any subsequent detection will start the timed period again from the beginning, the sensor will remain on until there is no movement detected.

LUX LEVEL: Adjust the LUX level by turning the “LUX” knob to change the LUX level from 3 lux to 2000 lux. The sensor will switch on when the ambient light is lower than the setting LUX level. The LUX lever pre-set to 30 lux.

9. Reinstall the lens on to the sensor and the sensor back in to inner frame.
10. Remove the terminal block cover by loosening the screw. Connect the mains supply wire to the terminal block. Fig.11

Mains Supply Wire

Neutral – Blue

Live – Brown

Terminal Block Label

N (Neutral)

L (Live)

Connect the luminaire wires to the terminal block.

Luminaire Wire

Neutral – Blue

Live – Brown

Terminal Block Label

N (Neutral)

A (Live)

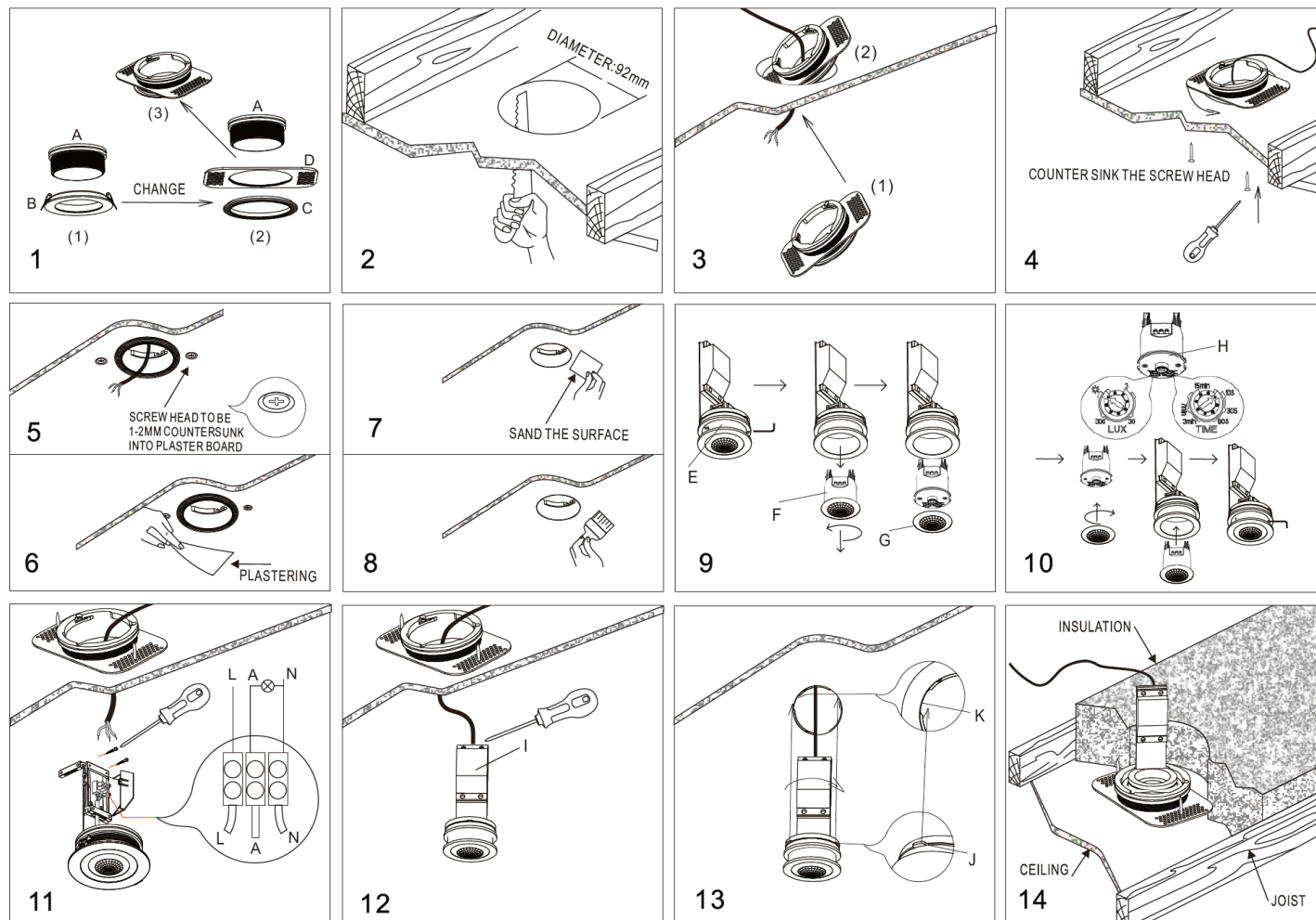
11. Ensure that the wires are secure and no bare wires are exposed. Secure the mains supply wire and luminaire wires with the cord anchorage by tightening the screws. Fig. 12
12. Install the cover back onto the terminal block and secure with the screw. Fig. 12
13. Insert the sensor assembly (I) into the frame (A) and secure it by rotating the tabs (J) into the grooves (K) until it locks into position. Fig.13
14. Sensor function:

AUTO MODE: Switch on the wall switch to the sensor, the light connected to the sensor will be ON-OFF-ON, after 12 seconds the sensor will be in the auto mode. The sensor will switch the lights on and off automatically.

MANUAL MODE: While in auto mode, switch the wall switch OFF-ON-OFF-ON within 3 seconds, the sensor will be continuously on for 8 hours (manual mode). After 8 hours, the sensor will return back to the auto mode.

RESET: To return the sensor to auto mode during manual mode, turn the switch OFF for at least 20 seconds and ON again. The sensor will now be in auto mode.

TRIMLESS INSTALLATION DIAGRAM



Safety Tips

- Always ensure the power is OFF before performing any maintenance, cleaning or making any adjustment to the sensor.
- To avoid injury or damage to the sensor, ensure that power leads and screws are secure before connecting the power.
- Select a suitable location away from liquids and hazards.
- Ensure that the sensor does not come in contact with corrosive chemicals/solvents or abrasive cleaners etc.
- To clean, wipe with a soft damp cloth. Do NOT soak or immerse the sensor in water or other liquids.

Specifications

SKU #	177093
Rated Voltage	220-240V~ 50Hz
Rated Wattage	LED load: Max. 200W Fluorescent load: Max. 400W Incandescent load: Max. 800W
Protection Class	Class II
Weight	0.2kg
Dimensions	H:145mm Dia:100mm
Cutout size	Ø 92mm