



CEILING DOWNLIGHT WITH MOTION SENSOR MODEL: MPES701

► INTRODUCTION

This downlight has a PIR (Passive Infra Red) sensing device within it, which continuously scans a preset zone and automatically switches the light on when it detects movement in that area. While there is movement within range of the unit the light will remain on. Once movement is detected within the range of the sensor the light will switch on automatically to illuminate corridor, hallway, hotel, store, or whatever area you have selected to light for reasons of safety, convenience or security.

► CHOOSE LOCATION FOR YOUR LIGHT

To have the sensor working well, we suggest you take the following points into account:

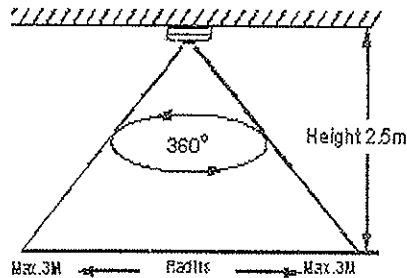


Fig. 1(A) Detection Area

- Ideally the Down Light Sensor should be mounted 1.8m – 5 metres in height (refer to Fig.1A).
- To avoid unit damage, do not aim sensor towards the sun.
- To avoid nuisance triggering, the sensor should be directed away from heat sources such as other outside lighting, Air-conditioners, barbecues, moving cars and flue vents.
- To avoid nuisance triggering, keep the unit away from areas of strong electromagnetic disturbance.
- Do not aim towards reflective surfaces such as smooth white walls, swimming pools, etc...
- The sensor scanning specifications may vary slightly

depending on the mounting height and location. The detection range of the unit may also alter with temperature change. Before selecting a place to install your lantern light you should note that movement across the scan area is more effective than movement directly toward or away from the sensor (refer Fig.1B). If movement is made walking directly towards or away from the sensor and not across, the apparent detection range will be substantially reduced. (refer to Fig. 1C)

► INSTALLING THE DOWN LIGHT

- Have the light installed by a licensed electrician and according to Australian wiring Regulations.
 - Switch electricity off and ensure that there is no power to the lines.
1. Cut out a hole of 100mm diameter in your ceiling
 2. After switching the electricity off, lead the power wires out from the ceiling hole
 3. Unscrew to open the wire box. Connect the main power wires to the terminal block (ref. to Fig. 2 A)
 4. Screw the box cover back and install the downlight into the ceiling hole by push the 2 springs upward (ref. to Fig. 2 B)
 5. Adjust the downlight's direction and switch electricity on

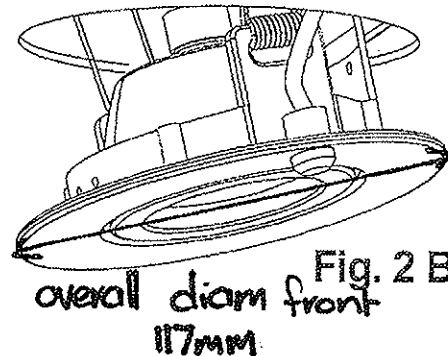


Fig. 2 B

overall diam front
117mm

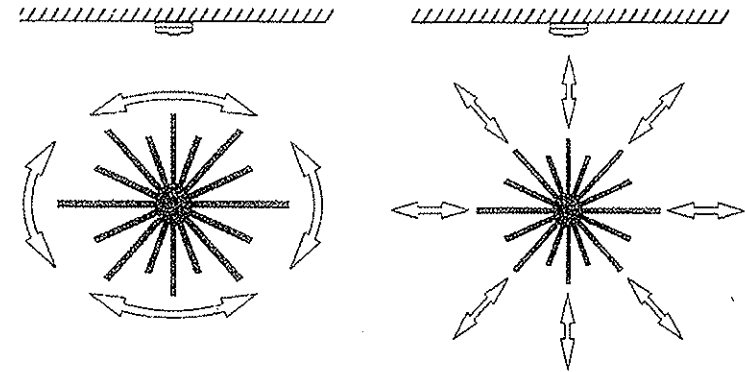


Fig. 1(B) Good

Fig. 1(C) Not Good

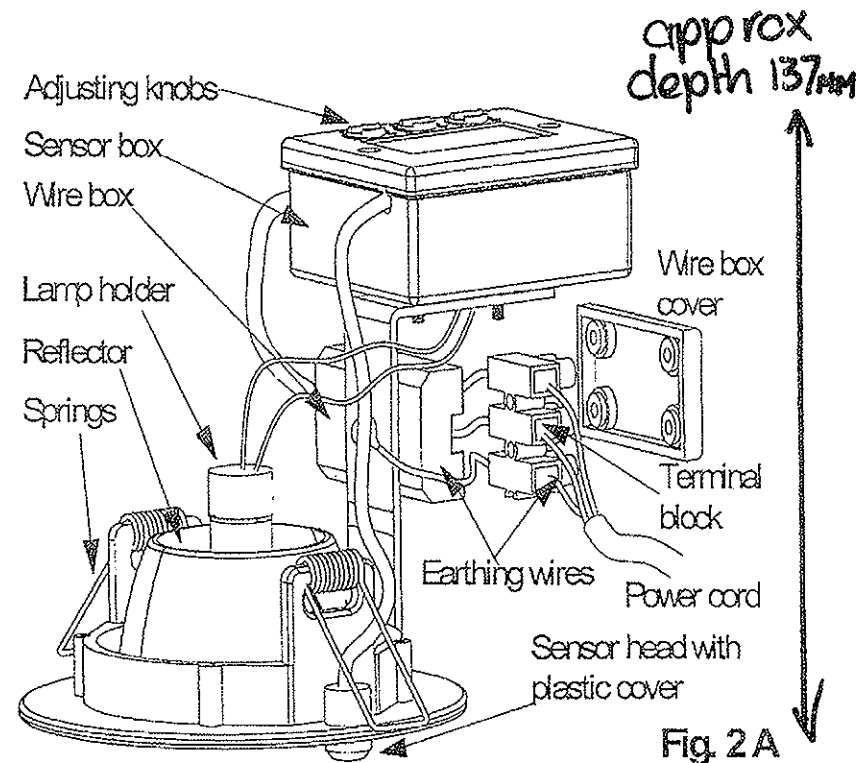


Fig. 2 A

Mpes 701

► **UNDERSTANDING THE CONTROLS** (ref. to the Fig.3)
ADJUSTING THE LUX (LIGHT) CONTROL LEVEL:

The unit has a built-in sensing device (photocell) that detects daylight and darkness. Rotating the LUX knob clockwise will set the lux control from dark (D) to light (*).

The (*) position denotes that the unit can work at day and night. The (D) position denotes that the unit will only work at night. (very dark conditions).

You can set the desired level by adjusting the LUX knob.

ADJUSTING THE DURATION TIME:

The duration time is "the length of time that sensor keeps the load 'on' after detection. The duration time can be adjusted from (10±5) seconds to (4±1) minutes. Rotate the TIME knob anti-clockwise to reduce the time (from + to -).

Note: Once the sensor has been triggered by movement, any subsequent detection will start the timed period again from the beginning.

ADJUSTING THE SENSITIVITY :

Sensitivity means the max. distance which PIR can detect. Turn the SENS knob from (-) to (+) will increase the sensitivity.

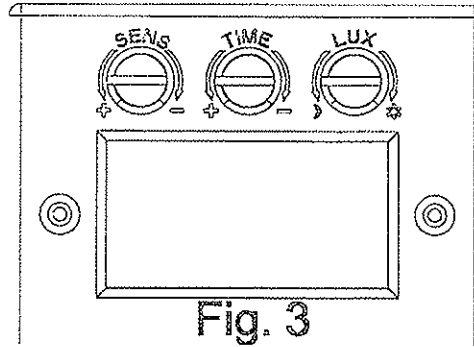


Fig. 3

► **SETTING THE CONTROLS**

1. Put the Lux control knob to light (*) position, turn the wall switch on and wait half a minute for the control circuit to stabilize. At this stage ensure that the TIME control knob is set at minimum duration time (-) position (Rotating the TIME knob clockwise to stop-position). The light will now switch on and remain on for about 30 seconds (within 60 seconds).
2. Carry out the WALKING-TEST to know the detection area. (refer Fig. 1B).
3. Adjust time control to required setting.
4. To set the Lux level at which the light will automatically switch "on" at night, turn the LUX

control knob from daylight (*) to night (D). If the light is required to switch on earlier, e. g. Dusk, wait for the desired light level, then slowly turn the LUX control knob towards daylight while someone walks across the center of the area to be detected. When the light switches on, release the LUX control knob. You may need to make further adjustments to achieve your ideal light level setting.

► **IMPORTANT:**

- 1) To avoid dust build-up and ensure proper functioning of the PIR Sensor, please wipe the sensor lens lightly with a damp cloth every 3 months.
- 2) NEVER modify the unit, there are no user serviceable parts inside.
- 3) All Passive Infra-Red (PIR) sensors are more sensitive in cold and dry weather than warm and humid weather.

► **SPECIFICATIONS**

- VOLTAGE: 240 VAC 50 Hz
- WATTAGE: Max. 50Watt Halogen GU10
- INSTALLATION HEIGHT: 1.8-5m
- DURATION TIME: (10±5) seconds to (4±1) minutes adjustable
- LUX CONTROL LEVEL: daylight to night adjustable