

60W Multi PIR Bulkhead

Model: MLB98 – Black



Installation & Operating Instructions

1. General information:

The unit utilises passive infrared technology to detect heat radiation of moving human bodies.

Upon detection, the lamp will illuminate for a user-determined time period.

An integral daylight sensor ensures night-only operation.

Parts Included

- Luminaire c/w PIR Sensor unit.
- Instruction manual. Please keep safe for future reference.
- Accessory pack.

Tools & Parts Needed

- Electric/hand-held drill & bits.
- Terminal or Electricians screwdriver.
- Large slotted/philips screwdriver.
- Wire cutters.

Unit is for outdoor use only. Unit must be mounted on a non-flammable surface as a fixed luminaire, and is not suitable for portable use.

The unit can get very hot during use. Ensure the unit has cooled before handling.

Ensure adequate ventilation space is allowed between the unit and any object above, in front or to either side of the unit. Suggested space is 0.5m above, 0.3m to either side and 1.0m in front.

If in any doubt, consult a qualified tradesperson or electrician.

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2. Selecting the location:

The motion detector has a number of detection zones, at various vertical and horizontal angles as shown (see diagram A).

A moving human body needs to cross/enter one of these zones to activate the sensor.

The best all-round coverage is achieved with the unit mounted at the optimum height of 2.5m.

Careful positioning of the sensor will be required to ensure optimum performance.

See diagram A detailing detection range and direction.

The sensor is more sensitive to movement ACROSS its field of vision than to movement directly TOWARDS (see diagram B). Therefore position the unit so that the sensor looks ACROSS the likely approach path.

Avoid positioning the sensor where there are any sources of heat in the detection area (extractor fans, tumble dryer exhausts etc.).

Reflective surfaces (i.e. pools of water or white-painted walls) and overhanging branches may cause false activation under extreme conditions.

During extreme weather conditions the motion sensor may exhibit unusual behaviour. This does not indicate a fault with the sensor. Once normal weather conditions return, the sensor will resume normal operation.

3. Installation:

After choosing a suitable location (see previous section) install the unit as follows:

IMPORTANT

Switch off the electricity at the fuse box by removing the relevant fuse or switching off the circuit breaker before proceeding with the installation.

The unit is suitable for connection to a 230 V AC 50Hz electricity supply. It is suggested that 3-core round flexible cable of 1mm² gauge is used. A isolating switch should be installed to switch the power to the unit ON & OFF. This allows the sensor to be easily switched off when not required or for maintenance purposes. If an external load is connected select the cable size to match the total load.

Remove cover using a small screwdriver (diagram C) by gently easing the cover outwards.

Mark position of the fixing holes (diagram D).

Drill the holes. Insert the wall plugs into the holes.

Pierce the grommet and pass the cable through the grommet.

Clamp the cable to the rear of the unit before securing the unit to the wall.

Fit grommet into its location hole ensuring a good seal.

Fix the unit to the wall. Take care not to overtighten the screws to prevent damage to the unit.

If using a power screwdriver, use the lowest torque setting.

Connection

Remove the terminal cover (diagram D) to expose terminal block.

Connect the cable to the terminal block as follows (see connection diagram):

NEUTRAL (Blue) **N**

LIVE (Brown) **L**

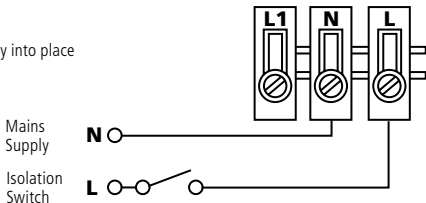
An earth connection is not required. Cut back or simply secure to an alternative earthing point

Ensure the connections are secure.

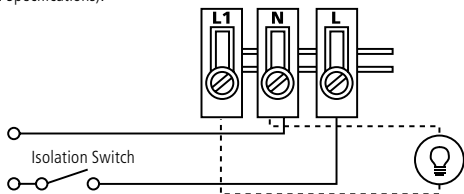
Replace terminal cover

Install the light bulb

Refit cover ensuring it clicks firmly into place



The diagram below also shows the required connections for the addition of slave luminaires. When adding slaves, be sure not to exceed the maximum switchable load (see Technical Specifications).



4. Operating and testing:

Walk Test Procedure

The sensor will rotate from left to right, and tilt forward or backward. Adjust the sensor to point in the required direction (see diagram B).

The unit can be set up in daylight or at night. The adjustment knobs are factory set. Lux is set to the 'moon' setting and Time is set to a minimum (fully anti-clockwise) see diagram E.

Turn the power to the unit on. The lamp will illuminate for approximately 30 seconds. This indicates the unit is wired correctly.

After approximately 30 seconds the light will turn off.

The unit is now in Test Mode.

Test Mode

The lamp will now illuminate for approximately 5 seconds every time movement is detected.

Walk across the detection area approximately 5 metres from the unit. Each time you are detected the lamp will illuminate. Now stand still until the lamp extinguishes (this should take approx. 5 seconds)

Start moving again, when you are detected again the lamp will illuminate.

Repeat the above, walking at various angles and distances to the unit. This will help you to establish the detection pattern.

If the detection area is too small for your requirements, try angling the sensor head up.

Angling the head downwards will reduce the detection area should a smaller range be required.

Setting Up for Automatic Operation

When walk tests are complete, the unit will be switch into Automatic Mode.

Simply cease movement within the detection area for approximately 60 seconds.

The unit will then switch to Automatic Mode.

The TIME setting controls how long the unit remains illuminated following activation and after all motion ceases.

(See diagram E the time adjustment knob is indicated by the "Clock" symbol).

The minimum time (fully anti-clockwise) is approx. 5 seconds, whilst the maximum time (fully clockwise) is approx. 18 minutes. Set the control to the desired setting between these limits*.

***When using compact fluorescent lamps set the ON time to a minimum of 10 minutes. This will increase the lamp life but will not detract from the energy saving from using this type of lamp.**

The DUSK control determines the level of darkness required for the unit to start operating. The setting is best achieved by the procedure below:

(See diagram E. the Dusk adjustment knob is indicated by the 'Moon' and 'Sun' symbols).

Set the DUSK control knob fully anti clockwise. Wait until darkness falls.

When the ambient light level reaches the level of darkness at which you wish the lamp to become operative (i.e. at dusk) SLOWLY rotate the control in a clockwise direction until a point is reached where the lamp illuminates. Leave the control set at this point.

At this position the unit should become operative at approximately the same level of darkness each evening. Observe the operation of the unit. If the unit is starting to operate too early (i.e. when it is quite light) adjust the control slightly anti-clockwise. If the unit starts to operate too late (i.e. when it is very dark). Adjust the control slightly clockwise.

Continue to adjust until the unit operates as desired.

Masking the Sensor Lens

To restrict the sensor coverage, preventing detection in unwanted areas, mask the sensor lens using the masking label provided in the accessory pack (see diagram F). For your information, the top section of the lens covers long range detection, the bottom covers short range. Similarly the left and right lens sections cover the left and right detection areas respectively.

Manual Override Mode

The light can be switched on for longer time periods by use of the Manual Override Mode. This can be activated at night by using the internal wall switch or circuit breaker.

Switch the internal wall switch/circuit breaker twice (OFF/ON, OFF/ON) within 2 seconds.

The unit will now illuminate continuously for the user defined time, between 1 – 8 hours, or until the unit is switched back into auto mode. The ON time can be set by rotating the centre adjustment knob as required. See diagram E. This time adjustment is factory set to 1 hour (Fully anti-clockwise is 1 hour, fully clockwise is 8 hours).

Note: If the light is still ON at dawn, before the set time expires, it will automatically switch OFF.

To switch the unit back into Auto Mode, flick the internal wall switch/circuit breaker OFF/ON once within 1 second. The unit will return to Auto Mode.

Holiday Mode

The benefit of Holiday Mode is that the user can program the unit automatically illuminate for a certain time, (1–8 hours) each night. At dusk the unit will illuminate for this set period after which it will extinguish. The unit will continue to operate normally when it senses movement until dawn.

At dusk the following night the process will be repeated, the unit will remain on for this set period (1–8 hours) then operate as a PIR unit until dawn.

Switch the internal wall switch/circuit breaker 3 times (OFF/ON OFF/ON OFF/ON) within 2 seconds.

The unit will now illuminate for a user defined time between 1 and 8 hours. The time can be set by rotating the centre adjustment knob as required. (See diagram E, the adjustment knob is identified by the letter T inside a circle).

This time adjustment is factory set to 1 hour.

Please note: Fully anti-clockwise is 1 hour, fully clockwise is 8 hours.

After the defined period has elapsed, the unit will return to Automatic Mode and operate as previously set up.

Holiday Mode will NOT reset to Automatic Mode at dawn, it will repeat each night until reset by the user.

To cancel Holiday Mode, switch the internal wall switch/circuit breaker once (OFF/ON) within one second. The unit will turn to Automatic Mode.

5. Technical specifications:

| | |
|---------------------------------|--|
| Detection Range | Up to 12 metres |
| Detection Angle | 200° |
| Power Supply | 230 V AC ~ 50Hz |
| Maximum Switchable Load | 3000W Filament/Incandescent or 500W Fluorescent/Low Energy /10W LED |
| Lamp Type | 60W ES or max 25W CFL (also suitable for low energy Halogen lamps – max 40W, LED lamps – max 10W) |
| Time On Adjustment | 5 seconds – 18 minutes |
| Dusk Level Adjustment | Day & night or night only operation |
| Environmental Protection | IP55 (suitable for outdoor use) |
| EC Directives | Conforms to current EC Directives |

**If you experience problems refer to Troubleshooting Guide.
If problems still exist, do not immediately return the unit to store.
Telephone the Timeguard Customer Helpline**

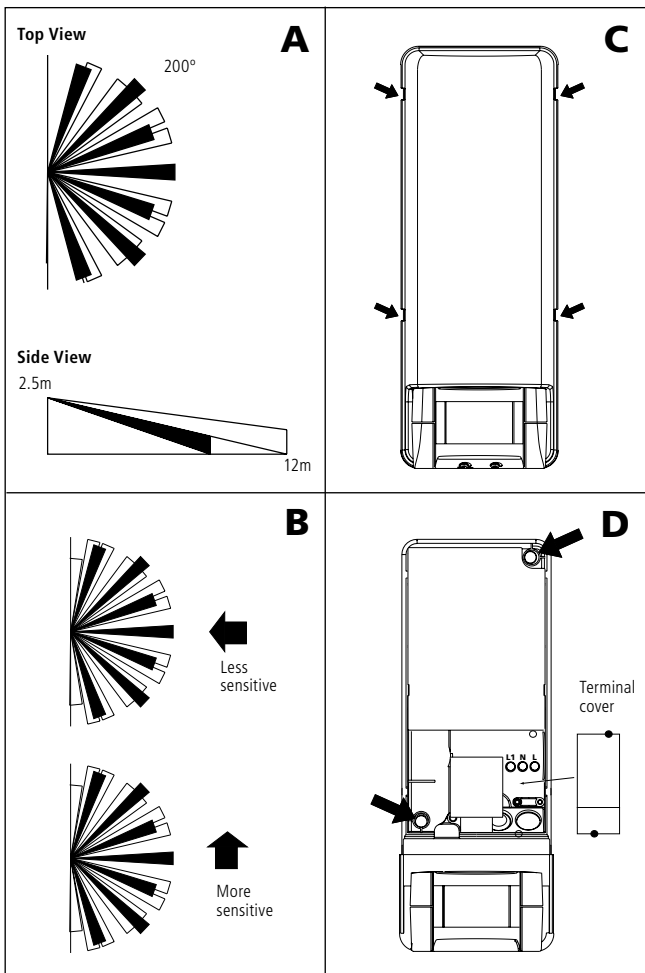
020 8450 0515

**Qualified Customer Support Co-ordinators will be on-line to assist
in resolving your query.**

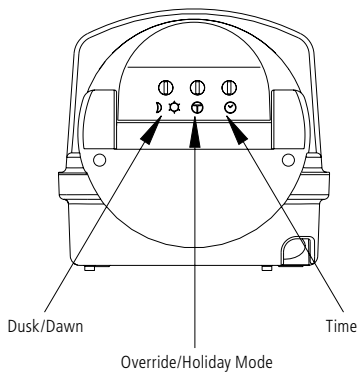
6. Trouble shooting guide:

| Problem | Solution |
|--|---|
| <ul style="list-style-type: none">Lamp stays ON all the time at night. | <p>The unit may be suffering from false activation. Cover the sensor lens completely with a thick cloth. This will prevent the sensor from 'seeing' anything. If the unit now switches off after the set time duration and does not re-activate, this indicates that the problem was caused by false activation. The problem may be solved by slightly adjusting the direction/angle of the sensor head (see previous section).</p> <p>The unit is in Manual Override Mode and will illuminate until dawn or until reset to Automatic Mode.</p> <p>To reset to Automatic Mode, switch the internal switch/circuit breaker off/on within one second.</p> <p>Holiday Mode has been selected. Switch the internal wall switch/circuit breaker off/on with one second and the unit will return to Automatic Mode. The light will illuminate only when motion is detected.</p> |
| <ul style="list-style-type: none">PIR keeps activating for no reason/ at random. | <p>You may not be allowing the unit time to complete it's warm-up period. Stand well out of the detection range and wait (the warm-up period should never exceed 5 minutes).</p> <p>Occasionally, winds may activate the sensor. Sometimes passages between buildings etc. can cause a "wind tunnel" effect.</p> <p>Ensure the unit is not positioned so as to allow detection of cars/people using public thoroughfares adjacent to your property.</p> |
| <ul style="list-style-type: none">PIR sensor will not operate at all. | <p>Check that the power is switched ON at the circuit breaker/internal wall switch.</p> <p>Turn OFF the power to the unit and check the wiring connections as per the diagram (see previous section 3). Ensure no connections are loose.</p> <p>Check the lamp. If the lamp has failed, replace. Ensure that the lamp is seated correctly in the lamp holder.</p> |
| <ul style="list-style-type: none">The PIR sensor will not operate at night. | <p>The level of ambient light in the area may be too bright to allow operation at the current DUSK setting. During the hours of darkness, adjust the DUSK control slowly clockwise until the lamp illuminates. Refer to previous section for more details.</p> |

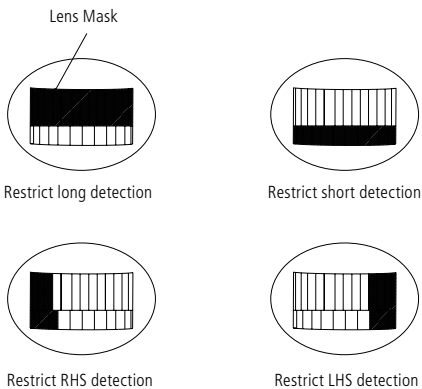
| Problem | Solution |
|--|--|
| <ul style="list-style-type: none">• Unit activates during the daytime • PIR coverage is poor/sporadic • Detection range varies from day to day | <p>The level of ambient light in the area may be too dark for the current DUSK setting. During daylight, adjust the DUSK control slightly anti-clockwise. When the lamp load extinguishes, enter the detection area. If the PIR still activates, the setting is still too high. Repeat the above procedure until the PIR does not activate when you enter the detection area. Refer to previous section for more details.</p> <p>Unit may be poorly located. See previous section – ‘Selecting The Location’ and re-locate the unit.</p> <p>PIR sensors are influenced by climatic conditions. The colder the ambient temperature, the more effective the sensor will be. You may need to make seasonal adjustments to the sensor head position to ensure trouble-free operation all year round.</p> |



E



F





5 Year Guarantee

In the unlikely event of this product becoming faulty due to defective material or manufacture, within 5 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge. The lamp supplied is not included in the warranty. For years 2 to 5 or any difficulty in the first year telephone our helpline on **020 8450 0515**.

Note: A proof of purchase is required in all cases.

For all eligible replacements (where agreed by Timeguard) the customer is responsible for all shipping/postage charges outside the UK. All shipping costs are to be paid in advance before a replacement is sent.

For assistance with the product please contact:

HELPLINE
020 8450 0515

or email helpline@timeguard.com



For a product brochure please contact:

Timeguard Limited.

Victory Park, 400 Edgware Road,
London NW2 6ND

Sales Office: 020 8452 1112
or email csc@timeguard.com

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