

2000W PIR LIGHT CONTROLLER

SLB2000-Black

SLW2000-White



INSTALLATION & OPERATING
INSTRUCTIONS

SLB2000

PIR LIGHT CONTROLLER - BLACK



3 YEAR

GUARANTEE

In the unlikely event of this product becoming faulty due to defective material or manufacture, within 3 years of the date of purchase, please return it to your supplier with proof of purchase and it will be replaced free of charge.

Should you encounter any difficulty please contact our helpline on 020 8450 0515.

SLW2000

PIR LIGHT CONTROLLER - WHITE

PIR SWITCHING
2000w
MAXIMUM

TIME ON

5sec ↔ 5min
ADJUSTABLE

DUSK TO DAWN

ADJUSTABLE

WEATHERPROOF

IP44

MANUAL ON/OFF

OVERRIDE

DETECTION ANGLE

140°
ADJUSTABLE

DETECTION RANGE

12m
ADJUSTABLE

3 YEAR
GUARANTEE

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SECTION ONE

GENERAL INFORMATION

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

Upon detection, the attached lighting load will illuminate for a user-determined time period.

An integral daylight sensor ensures night-only operation.

PARTS INCLUDED

- 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

This product is suitable for wall or ceiling mount.

Lighting loads connected must not exceed maximum 2000W tungsten halogen, 1000W incandescent or 500W fluorescent.

DO NOT USE THIS PRODUCT WITH COMPACT FLUORESCENT ENERGY SAVING LAMPS.

SECTION TWO

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 (ie 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.

SECTION THREE INSTALLATION

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

Remove the wiring box cover by gently pushing the side retaining lugs inwards and lift off.

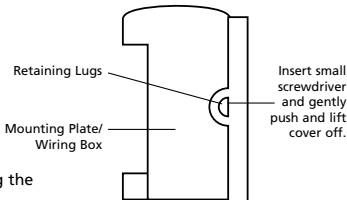
The unit is suitable for connection to a 230 V ac 50Hz electricity supply. It is suggested that 3-core round flexible cable of 1mm² gauge is used. A isolating switch should be installed to switch the power to the unit ON & OFF. This allows the sensor to be easily switched off when not required or for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

Mark the position of the fitting holes.

Drill the holes. Insert the rawl plugs into the holes.

PIERCE & PASS THE CABLE(S) THROUGH THE GROMMET(S) BEFORE PROCEEDING.

Fix the mounting plate to the wall. Take care not to overtighten the screws to prevent damage to the mounting plate. If using a power screwdriver, use the lowest torque setting.




*** 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.

CONNECTION

Connect the **mains supply cable** to the terminal block on the unit as follows (see connection diagram):

| | |
|----------------------|---|
| NEUTRAL (Blue) | N |
| EARTH (Green/Yellow) |  |
| LIVE (Brown) | L |

Connect the **cable from the lighting load** to the terminal block on the unit as follows (see connection diagram):

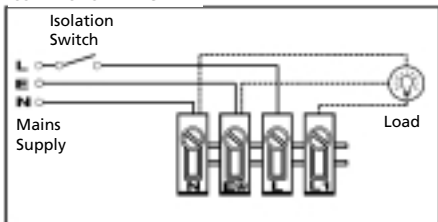
| | |
|----------------------|---|
| NEUTRAL (Blue) | N |
| EARTH (Green/Yellow) |  |
| LIVE (White) | L1 |

Ensure that all connections are secure.

Attach the wiring box cover, ensuring a weatherproof seal is obtained.

If the ceiling mount option is utilised, ensure the PIR head is rotated through 180° so that the adjustment controls are in a downward facing orientation.

CONNECTION DIAGRAM



SECTION FOUR

OPERATION 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.

The unit can be set up in daylight or at night.

Set the time adjustment to minimum (fully anti-clockwise).

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. This will increase the detection area. Angling the head downwards will reduce the detection area should a smaller coverage be required.

SETTING UP FOR AUTOMATIC OPERATION

When walk tests are complete, the unit can be automatically switched into Automatic Mode.

If you 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 C, 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. 5 minutes. Set the control to the desired setting between these limits.

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

Set the DUSK control knob fully anti clockwise (See diagram C, the DUSK adjustment knob is indicated by the "Moon" and "Sun" symbols).

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 (see diagram D). 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 until dawn or until switched back into Auto Mode. To switch the unit back into Auto Mode, flick the internal wall switch/circuit breaker once (off/on) within one second. The unit will return to its Auto mode and will operate as set up during the walk test period.

SECTION FIVE

TECHNICAL SPECIFICATIONS

| | |
|---------------------------------|--|
| Detection Range | Up to 12 metres |
| Detection Angle | 140° |
| Power Supply | 230 V AC ~ 50Hz |
| Maximum Switchable Load | 2000W (4 x 500W) Tungsten Halogen 1000W (10 x 100W GLS) Incandescent 500W Fluorescent |
| Time On Adjustment | 5 seconds - 5 minutes |
| Dusk Level Adjustment | Day & night or night only operation |
| Environmental Protection | IP44 (suitable for outdoor use) |
| EC Directives | Conforms to 73/23/EEC, 89/336/EEC |

Not suitable for energy saving lamps

**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.

SECTION SIX

TROUBLESHOOTING GUIDE

PROBLEM

SOLUTION

Lamp stays ON all the time at night.

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).

PIR keeps activating for no reason / at random.

You may not be allowing the unit time to complete its warm-up period. Stand well out of the detection range and wait (the warm-up period should never exceed 5 minutes). Occasionally, winds may activate the sensor. Sometimes passages between buildings etc. can cause a "wind tunnel" effect. Ensure the unit is not positioned so as to allow detection of cars/people using public thoroughfares adjacent to your property.

PIR sensor will not operate at all.

Check that the power is switched ON at the circuit breaker/internal wall switch.

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.

Check the lamp. If the lamp has failed, replace. Ensure that the lamp is seated correctly in the lampholder.

The PIR sensor will not operate at night.

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.

Unit activates during the daytime

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.

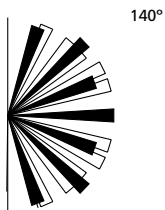
PIR coverage is poor/sporadic

Unit may be poorly located. See previous section - 'Selecting The Location' and re-locate the unit.

Detection range varies from day to day

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.

TOP VIEW



SIDE VIEW

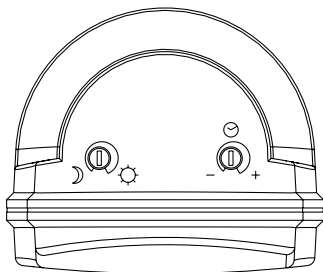
2.5m



A

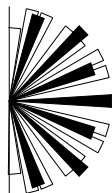
12m

C

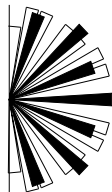


B

D

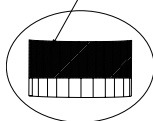


Less sensitive

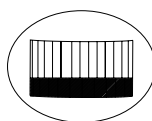


More sensitive

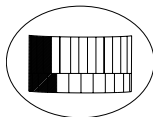
Lens Mask



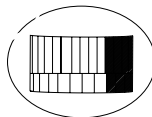
Restrict long detection



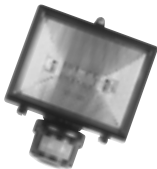
Restrict short detection



Restrict RHS detection



Restrict LHS detection

CONSUMER**PRODUCT RANGE**

SLB500
500W PIR
Halogen
Floodlight -
Black



SLW2000
2000W PIR
Light
Controller -
White



SLW500
500W PIR
Halogen
Floodlight -
White



SLB88
60W PIR
Bulkhead
Light -
Black



SLB150
150W PIR
Halogen
Floodlight -
Black



SLW89
60W PIR
Bulkhead
Light -
White



SLW150
150W PIR
Halogen
Floodlight -
White



SLB44
60W PIR
Lantern
Light -
Black



SLB2000
2000W PIR
Light
Controller -
Black



SLW45
60W PIR
Lantern
Light -
White

Helpline
020-8450-0515



For a product brochure please contact:

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London NW2 6ND
or email csc@timeguard.com