

# 2000W OVERDOOR LIGHT CONTROLLER

Cat No. SLOD2000



INSTALLATION & OPERATING  
INSTRUCTIONS

## Introduction

The SLOD2000 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.

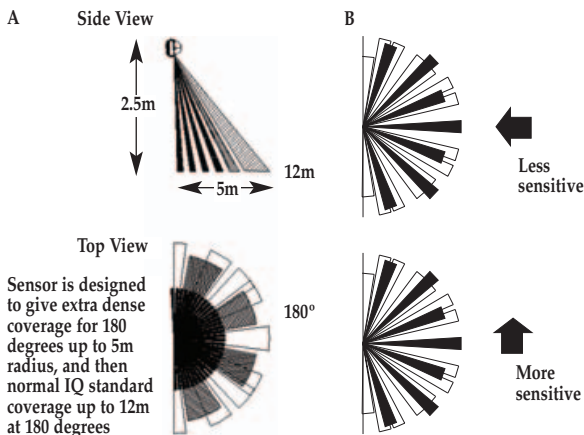
An integral daylight sensor ensures night-only operation.

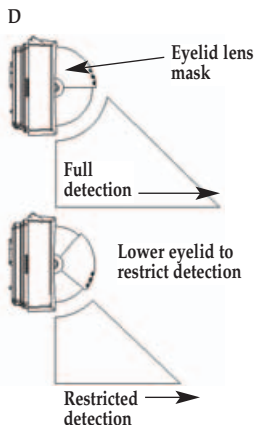
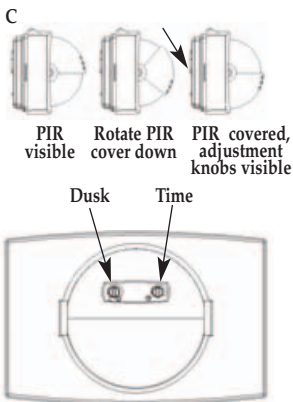
### Important Information: Light Pollution and Considerate Lighting

Please be aware of the annoyance over-lighting an area can cause to your immediate neighbours.

Light pollution caused by incorrectly installing a unit or over-lighting an area can be limited by carefully considering the location and position of your unit before installation. The light spread on all halogen floodlights can be reduced by angling the floodlight downwards on the mounting bracket. This will also concentrate the light on your property and limit the potential inconvenience of the light shining into your neighbours windows etc.

Please see Selecting a Location for information on choosing the optimum location for your security light.





## Parts included

- PIR Sensor unit.
- Instruction manual. Please keep safe for future reference.
- Accessory Pack.

## Tools and parts needed

- 3 core flexible cable.
- 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 2000W filament/incandescent, or 500W fluorescent/low energy lighting.

Do not attempt to install during wet weather, if you are suffering from nausea or dizzy spells or on medication with similar side effects. If in any doubt, consult a qualified tradesperson or electrician.

**Not suitable for discharge lighting.**

## Selecting a location

The motion detector has a number of detection zones, at various vertical and horizontal angles as shown (see diagram A). This unit is specifically designed to very dense coverage for a 5m radius. This makes it especially good over doors and windows and if sited correctly it can ensure excellent detection zones around sides of properties, with maximum protection against “creep zones” which could allow approach along the perimeter of your property.

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.) including opposite any other light sources such as other security lights.

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.

## Installation

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

The unit is suitable for connection to a 230 V ac 50Hz electricity supply. It is suggested that 3-core round flexible cable of 1 sq. mm gauge is used. An internal 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.

Remove the unit from its packaging.

Remove the decorative cover by lifting off the main body of the sensor. See diagram E.

Open the unit by inserting a terminal screwdriver into the two slots on the underside of the unit.

The front cover will open, hinged at the top and the cover can be opened to a point where it holds itself open for easy wiring box access. See diagram F.

Using the wall plate as a template, mark the position of the fitting holes. See diagram G.

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

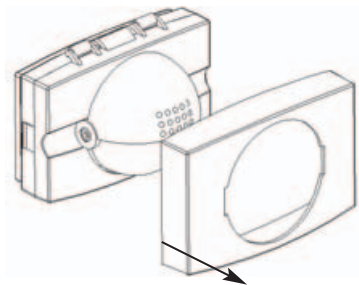
**PIERCE & PASS THE CABLE(S) THROUGH THE GROMMET(S) BEFORE PROCEEDING.**

It is recommended that the grommet is pierced with a screwdriver to ensure a better seal.

Attach the mounting plate to the wall using screws provided. Do not overtighten the mounting screws as this could damage the unit. If using a power screwdriver, use the lowest torque setting.

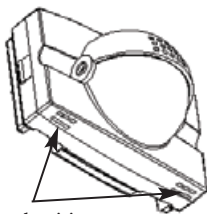
Connect the incoming and outgoing cables as follows:

E

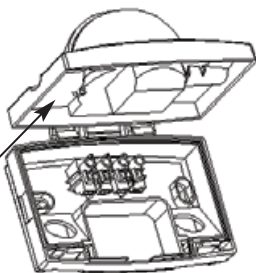


Decorative cover removed.

F

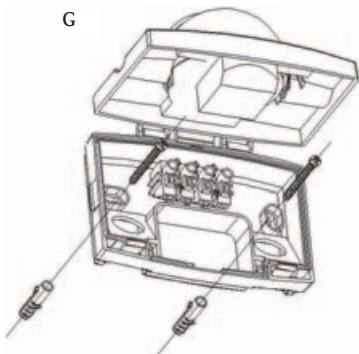


Insert electrician's terminal screwdriver into 2 x long slots as shown to release internal clips



sensor opens, hinged at top

G




## Connection

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

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 (Brown) L1

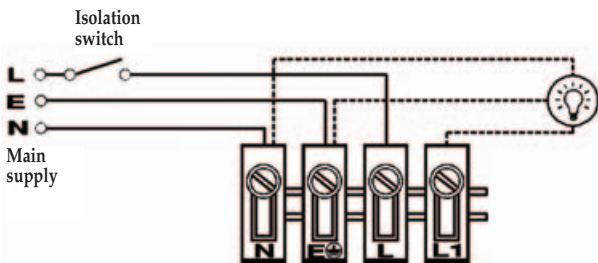
Ensure that all connections are secure.

Close the wiring box firmly so that the two sections snap together.

Ensure no wires are trapped.

Replace decorative cover.

Installation is complete.



## *Walk testing*

Set the two adjustment controls on the underside of the unit (diagram C) to the following positions:

TIME - Fully anti-clockwise

DUSK - Fully clockwise

The unit will now operate during daytime as well as at night, illuminating the lamp for approx. 5 seconds each time. This allows testing to be carried out to establish the best position for the sensor.

The lamp will immediately illuminate as the unit goes through its "warm-up" period. After approximately 1 - 2 minutes the lamp will extinguish. Try to remain outside the detection area during the warm-up period.

Walk across the detection area approx 5 metres from the unit. As you cross a detection "zone" the lamp will illuminate. Now stand still until the lamp extinguishes (this should take approx. 5 seconds).

Start moving again. As you cross each "zone" the lamp will illuminate.

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

## *Setting up for automatic operation*

When walk tests are complete, the unit can be switched to automatic operation. Simply cease movement within the detection area for approximately 60 seconds, ensure the lamp is not illuminated. The unit will then switch to automatic operation.

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

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. The unit will now start operating at dusk.

If you require the light to activate earlier, wait until the ambient light level reaches the level of darkness at which you wish the lamp to become operative, SLOWLY (a small step at a time) 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 (ie. when it is quite light), adjust the control slightly anti-clockwise. If the unit starts to operate too late (ie. dusk), adjust the control slightly clockwise.

Continue to adjust until the unit operates as desired.

## *Masking the sensor lens*

To reduce the sensor coverage, preventing detection in unwanted areas, simply adjust the "eyelid" sensor cover downwards, this will mask longer range detection. See diagram D.

## *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 it is switched back into Detection Mode.

To switch the unit back into Detection Mode, flick the internal wall switch/circuit breaker off/on once within 1 second. The unit will return to Detection Mode.

## Troubleshooting guide

Problem	Solution
<ul style="list-style-type: none"><li>• <b>Lamp stays ON all the time at night.</b></li></ul>	Cover PIR lens with a thick cloth. If the light turns out, check detection area for moving heat or reflective source. If the light stays on, check wiring. See Section 3.
<ul style="list-style-type: none"><li>• <b>PIR keeps activating for no reason/ at random.</b></li></ul>	Turn unit off, leave for 30 seconds and turn back on again. Leave for approximately 18 minutes. If light activates, check area for false activation from moving heat, wind or reflective source.
<ul style="list-style-type: none"><li>• <b>PIR sensor will not operate at all.</b></li></ul>	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.
<ul style="list-style-type: none"><li>• <b>The PIR sensor will not operate at night.</b></li></ul>	Check the lamp. If the lamp has failed, replace. Ensure that the lamp is seated correctly in the lampholder. Please note that the unit will not detect through glass. (e.g. in a glazed porch). 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.
<ul style="list-style-type: none"><li>• <b>Unit activates during the daytime.</b></li></ul>	Adjust the setting anti-clockwise to lower the level of ambient light required for activation.
<ul style="list-style-type: none"><li>• <b>PIR coverage is poor/ sporadic.</b></li></ul>	Unit may be poorly located. See previous section - 'Selecting A Location' and re-locate the unit.
<ul style="list-style-type: none"><li>• <b>Detection range varies from day to day.</b></li></ul>	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.

## *Technical specifications*

Detection Range:	Up to 12 metres
Detection Angle:	180°
Power Supply:	230 V AC ~ 50Hz
Maximum Switchable Load:	2000W (e.g. 4 x 500W halogen floodlights) Filament/incandescent lighting or 500W Fluorescent/low energy lighting
	<b>Not suitable for use with discharge lighting</b>
Time On Adjustment:	5 seconds - 18 minutes
Dusk Level Adjustment:	Day & night or night only operation
Environmental Protection:	IP44 (suitable for outdoor use)
Warranty:	3 years
Conforms to Directives:	73/23/EEC and 89/336/EEC

## *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 in the first year with proof of purchase and it will be replaced free of charge.

For the second and third years or any difficulty in the first year telephone the helpline on **020 8450 0515**.



HELPLINE  
**020-8450-0515**



For a product brochure please contact:

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