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MANUFACTURER'S EXTENDED WARRANTY

In addition to your statutory rights relating to this product it is also guaranteed by IQ (Europe) Limited ("IQ") for 12 months from the date of purchase against faulty materials or workmanship which affect its designed ability to detect or switch. During this period if the product has a defect of this nature it will be repaired or replaced free of charge by IQ with the same item, or a similar or a thicker genericing. ON CONDITION THAT one of higher specification, ON CONDITION THAT:-

The buyer takes advantage of any 'return to store' scheme operated by the seller from whom it is bought.

If the product has a defect outside the period of any seller's 'return to store' scheme it should be returned to IQ (Europe) Limited at Sandbeck Lane, Wetherby, W. Yorks LS22 7TW, England at the expense of the buyer together with evidence of the date of purchase (it is the responsibility of the buyer to prove delivery to IQ).

The product has been bought by the user.

The product has not been misused or handled carelessly, installed incorrectly, or used on a voltage supply other than that shown on it.

Repairs have not been attempted by anyone other than IQ's staff.

The product has been used for domestic purposes only.

The product has not been installed in any unusually exposed or harsh environmental conditions.

If the buyer is resident in the EU the product or its replacement will be returned to the buyer at the expense of IQ.

This guarantee excludes liability for discolouration of paint or plastic, or any user replaceable parts and in particular lamps, glass panels, or globes/lanterns. It does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage.

This guarantee is offered as an additional benefit and does not affect your statutory rights as a consumer.

This contract is subject to the laws of England and Wales.

*** IMPORTANT ***

As of 1 January 2005, changes to the Building Regulations affect domestic electrical installations in England and Wales. You don't need to be a qualified electrician to make changes to your home's electrical system, but the work must be done in accordance with the Regulations.

Where you employ an electrician who is a member of a competent person self-certification scheme, they will be able to certify the work complies with the Regulations. If you decide to carry out the work yourself we recommend that you make yourself aware of the Regulations before you begin and if you require any clarification you should contact your Local Authority Building Control Department.

Details of the Building Regulations can be obtained on the internet via the government website www.odpm.gov.uk/explanatory-booklet

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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

- 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 maximum 2000W tungsten halogen, 1000W incandescent or 500W fluorescent. If it is intended to use this product with compact fluorescent energy saving lamps, we suggest the TIME setting is set to a minimum of 3 minutes. 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.



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.) 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.

LIGHT POLLUTION

To reduce the risk of light pollution, consider the following when installing the any lights controlled by this unit.

Position the light to ensure that the light emitted does not encroach onto neighbouring properties. Angle the floodlight downward to focus the illumination onto the ground, not into the sky. Consider using a lower wattage bulb (200W, 300W) to save energy and reduce high light output if not required.

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SECTION THREE

After choosing a suitable location (see previous section) install the unit as follows: The unit is suitable for connection to a 240 V ac 50Hz electricity supply. It is suggested that 3-core round flexible cable of 1mm² 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.

This product is designed to be mounted on walls or under eaves, see diagram E. The sensor can be rotated through 180 degrees to direct detection where required, decide on your location before installation.

Remove the unit from its packaging.

Unscrew the wiring box fixing screw shown on diagram F. This screw is captive, do not fully remove.

Detach the wiring box from the Sensor body.

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

This unit features an installation aid. Simply hang the Sensor onto the wall plate by use of the clip arrangement on the wall plate. See diagram H. This allows you to use your hands to hold the screwdriver, and install the incoming cables with ease. Connect the incoming and outgoing cables 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.

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)	Ľ

Connect the $\ensuremath{\textbf{cable}}\xspace$ from the lighting load to the terminal block on the unit as follows (see

connection diagram):	
NEUTRAL (Blue)	N
EARTH (Green/Yellow)	٠
LIVE (Brown)	L1

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Ensure that all connections are secure.

Ensure the terminal block is attached to its mounting posts in the sensor body.

Un-hook the sensor unit from the wall plate and re-attach to the wall plate box as follows:-

Ensure no wires are trapped.

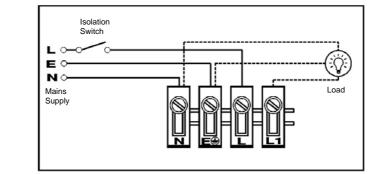
Align the sensor centrally over the wiring box and attach the top edge of the sensor to the wall plate. see diagram I. There will be an audible click indicating that the top clips are located into the wallplate.

Slowly rotate the sensor body downwards and and ensure no wires are trapped, the lower edge of the unit will locate into the wallplate.

Fully tighten the fixing screw. See diagram F.

Installation is complete.

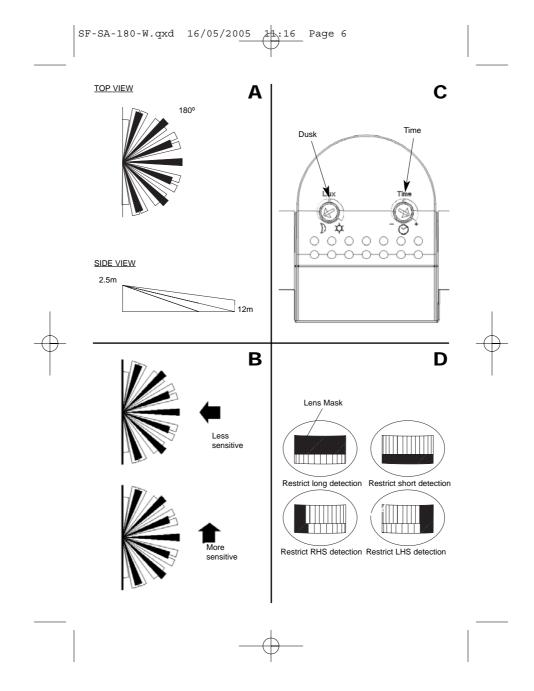




MANUAL OVERRIDE MODE The light can be switched on for longer time periods by use of the Manual Override Mode. This can be activated at night by using the internal wall switch or circuit breaker.

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 Auto Mode.

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.



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SECTION FOUR **OPERATION AND TESTING**

WALK TESTING PROCEDURE

The sensor will adjust vertically through 180 degrees Adjust the sensor to point in the desired direction.

Set the two adjustment controls on the underside of the unit (diagram C) to the following TIME - Fully anti-clockwise positions: 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 minute 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.

If the detection area is too small for your requirements, try angling the sensor head up. This will increase the coverage distance. Angling the head downwards will reduce the range should a smaller coverage area be required.

SETTING UP FOR AUTOMATIC OPERATION.

When walk tests are complete, the unit can be switched to automatic operation :

The TIME setting controls how long the unit remains illuminated following activation & after all motion cases. 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. 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 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 restrict the sensor coverage, preventing detection in unwanted areas, mask the sensor lens using the masks provided in the accessory pack (see diagram H). 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.

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SECTION FIVE TECHNICAL SPECIFICATIONS

Detection Range	Up to 12 metres
Detection Angle	180º
Power Supply	240 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)
Warranty	12 months

Telephone the IQ Customer Helpline

0871 71 71 100 Weekdays 9.00am - 5.00pm support@iq-group.com www.iq-europe.co.uk

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

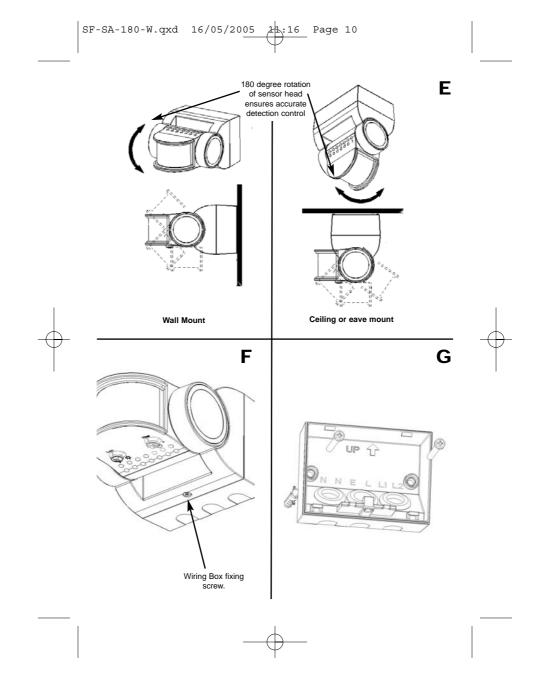
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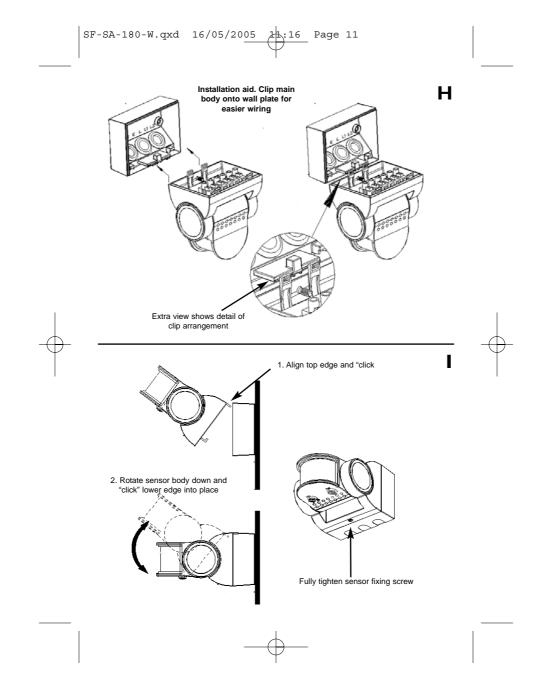
SECTION SIX TROUBLESHOOTING GUIDE

SOLUTION PROBLEM Cover PIR lens with a thick cloth. If the light turns out, check detection area for heat or reflective source. $_{\odot}$ Lamp stays ON all the time at night. If the light stays on, check wiring. See Section 3. o PIR keeps activating for no Reset unit. Leave for a maximum of 5 minutes. If light reason / at random. activates, check area for false activation from heat or reflective source. o PIR sensor will not operate at Check that the power is switched ON at the circuit all. breaker/internal wall switch. Turn OFF the power to the unit and check the wiring connections. 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. 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 o The PIR sensor will not operate at night. the lamp illuminates. Refer to previous section for more details. o Unit activates during the Adjust the setting anti-clockwise to lower the level of ambient daytime light required for activation. o PIR coverage is poor/sporadic Unit may be poorly located. See previous section - 'Selecting The Location' and re-locate the unit. o Detection range varies from PIR sensors are influenced by climatic conditions. The colder the ambient temperature, the more effective the sensor will day to day be. You may need to make seasonal adjustments to the

round.

sensor head position to ensure trouble-free operation all year





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DID YOU KNOW ...

IQ products are designed and manufactured to give many years of trouble-free service. The materials used during manufacture have been selected to allow the product to be easily recycled when no longer functional.

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

LIGHT POLLUTION & 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.