

TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Lights won't come on	<ul style="list-style-type: none"> Power not on Wired incorrectly PIR not detecting movement <ul style="list-style-type: none"> Light conditions too bright 	<ul style="list-style-type: none"> Turn on indoor switch or check fuse Check wiring is the same as wiring diagram Adjust the angle and direction of the PIR. For best results walk across the beam Wait until light conditions are darker (at dusk or under 40 Lux) or turn the LUX control up.
Lights stay on	<ul style="list-style-type: none"> TIME set too high Wired incorrectly Frequent changes in heat are being detected 	<ul style="list-style-type: none"> Turn TIME control towards '-' end (10 secs to 5 min adjustable) Check wiring is the same as wiring diagram Check sensing area for possible heat sources (e.g. air vents, moving vehicles, moving trees) and re-position the sensor or alter the RANGE control downwards
Lights keep turning on and off (cycling)	<ul style="list-style-type: none"> Changes in heat are being detected from a fixed heat source Changes in heat are being detected from a moving object Light and heat are being reflected back onto the sensor Sudden temperature changes due to storms or high winds 	<ul style="list-style-type: none"> Check the sensing area for air vents, light fittings or fans and either re-position the sensor or adjust the aim Check the sensing area for moving vehicles, pedestrians, animals, moving trees and alter the aim of the sensor accordingly Alter aim of the sensor or paint the reflecting surface with a dull finish Turn sensor off until storm passes or install in a sheltered location
Sensing angle and distance appear incorrect	<ul style="list-style-type: none"> Angle of PIR sensor head is incorrect Sensitivity set too low 	<ul style="list-style-type: none"> Adjust the PIR sensor head to alter the sensing distance and angle Turn RANGE knob toward the maximum
Sensor operates differently in hot and cold conditions	<ul style="list-style-type: none"> Temperature differences are affecting the sensitivity of the sensor 	<ul style="list-style-type: none"> Turn the sensitivity (RANGE) control knob toward the '+' end for summer (hot conditions) and toward the '-' for winter (cold conditions). This compensates for the variations in temperature

Hylite tries to improve its products for the benefit of its customers. For this reason we reserve the right to make changes to any product at any time without notice.

Please note that this equipment and its components have no user serviceable parts. If you experience any difficulties installing this product please call our helpline or write to:

F4 Enterprises Limited
7 Abbey Square, Chester
CH1 2HU.
Tel: 01352 736120
www.f4enterprises.co.uk



Hylite
 eco lighting

LED SECURITY FLOODLIGHT WITH PIR

For:

HLF060 6W LED Floodlight with PIR
 HLF120 12W LED Floodlight with PIR
 HLF125 12W LED DUO Dusk to Dawn Floodlight with PIR



Assembly & Fitting Instructions

IMPORTANT SAFETY INSTRUCTIONS

PLEASE FOLLOW THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL AND OPERATE THIS LIGHT.

IMPORTANT INSTALLATION INSTRUCTIONS

- ⚠ THIS PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN.
- ⚠ ALL ELECTRICAL EQUIPMENT AND APPLIANCES MUST BE CHECKED TO ENSURE THEY ARE SAFE BEFORE OPERATING.
- ⚠ POWER SUPPLY LEADS, PLUGS AND ALL ELECTRICAL CONNECTIONS MUST BE REGULARLY CHECKED TO ENSURE THEY ARE NOT LOOSE, WORN OR DAMAGED AND CIRCUITS ARE WELL INSULATED.
- ⚠ WORN OR DAMAGED LEADS, PLUGS OR CONNECTIONS SHOULD NOT BE USED AND SHOULD IMMEDIATELY BE REPLACED OR REPAIRED BY A QUALIFIED ELECTRICIAN.
- ⚠ THE RISK OF ELECTRIC SHOCK SHOULD BE MINIMIZED BY THE INSTALLATION OF APPROPRIATE SAFETY DEVICES INCLUDING THE INCORPORATION OF AN RCCB (RESIDUAL CURRENT CIRCUIT BREAKER) INTO THE MAIN DISTRIBUTION BOARD.
- ⚠ DO NOT WIRE THIS FLOODLIGHT INTO THE LIGHTING CIRCUIT. USE A SWITCHED FUSED SPUR (FIG.3). CABLES SHOULD ALWAYS BE PROTECTED AGAINST SHORT CIRCUIT AND OVERLOAD. ENSURE THE VOLTAGE MARKED ON THE PRODUCT IS THE SAME AS THE ELECTRICAL POWER SUPPLY TO BE USED.
- ⚠ DO NOT PULL POWER CABLE ONCE INSTALLED AND DO NOT PULL POWER PLUGS FROM SOCKETS BY THE POWER CABLE.
- ⚠ DO NOT INSTALL THE LIGHT:
 - WHERE IT IS LIKELY TO BE KNOCKED OR HIT
 - IN HOT OR HUMID CONDITIONS SUCH AS BATHROOMS, SHOWER ROOMS OR SAUNAS
 - NEAR AN EXHAUST OUTLET E.G. BOILER FLUE, DRYER OUTLET

IMPORTANT OPERATION AND MAINTENANCE INSTRUCTIONS

- ⚠ THE LIGHT BECOMES VERY HOT DURING USE. THEREFORE DO NOT TOUCH THE LIGHT WHEN OPERATING, AND ALLOW TO COOL BEFORE TOUCHING.
- ⚠ THE LIGHT SHOULD NOT BE USED NEAR FLAMMABLE OR COMBUSTIBLE MATERIALS (SUCH AS WOOD, CLOTH, PAPER) OR NEAR FLAMMABLE, COMBUSTIBLE OR EXPLOSIVE LIQUIDS, SOLIDS, GASES OR EQUIPMENT.
- ⚠ DO NOT DIRECT THE LIGHT INTO A PERSONS EYES. THIS UNIT HAS A VERY INTENSIVE LIGHT OUTPUT, WHICH IF INCORRECTLY USED COULD CAUSE EYE DAMAGE.
- ⚠ DO NOT USE THE LIGHT WITHOUT THE FRONT GLASS SHIELD. AVOID TOUCHING THE GLASS SHIELD AS HANDLING MAY REDUCE ITS SERVICEABLE LIFE AND CAUSE THE GLASS TO CRACK.
- ⚠ THE MAINS POWER SUPPLY MUST BE DISCONNECTED BEFORE SERVICING OR PERFORMING ANY MAINTENANCE.
- ⚠ THE LIGHT SHOULD BE MAINTAINED IN GOOD CONDITION WITH REPAIR ONLY BE UNDERTAKEN BY A QUALIFIED ELECTRICIAN.
- ⚠ REPAIRS SHOULD ONLY BE CARRIED OUT USING GENUINE PARTS. NON-AUTHORIZED PARTS MAY BE DANGEROUS AND WILL INVALIDATE THE WARRANTY.

PARTS INCLUDED

- 1 x LED floodlight with PIR and mounting bracket
- 1 x Fixing kit (4 x wall plugs, 4 x No.8 masonry screws)
- 1 x Instruction manual (please keep safe for future reference)

TOOLS REQUIRED

- Electric / hand-held drill
- No.8 masonry drill bit
- Electricians screwdriver
- Large screwdriver
- Wire cutters

This product is suitable for wall mounting.

TECHNICAL SPECIFICATION

	HLL060 6W LED Floodlight with PIR	HLL120 12W LED Floodlight with PIR	HLL125 12W DUO Dusk till dawn LED Floodlight with PIR
Power Supply	230V AC - 50Hz	230V AC - 50Hz	230V AC - 50Hz
LED Light	6W LED	12W LED	12W LED
Detection Range	8-10 Metres @15-20°C	8-10 Metres @15-20°C	8-10 Metres @15-20°C
Detection Angle	120°	120°	120°
Time On Adjustment	15 secs - 5 mins	15 secs - 5 mins	15 secs - 5 mins
Dusk Level Adjustment	Day/Night or Night Only operation	Day/Night or Night Only operation	Day/Night or Night Only operation
Environment Protection	IP44	IP44	IP44
Power	6W	12W	12W (on PIR detection) 6W (Dusk till Dawn)

CHOOSING A MOUNTING LOCATION

- Mount the floodlight onto solid brickwork, 3 - 5m above the ground (Fig. 1).
- The sensor should be mounted horizontal to ensure the detection area is maximized by being even from side to side.
- Installation under eaves is acceptable but radiated and convected heat from the fitting must be taken into account.
- Avoid pointing the PIR sensor at trees & shrubs, hot ventilator ducts, air conditioners street lighting or traffic which may interfere with its operation.
- Do not allow sunlight to fall directly onto the front of the PIR sensor, otherwise poor triggering response may occur.
- Prior to mounting, keep in mind that the PIR sensor is more sensitive to a heat source moving across its coverage area and less sensitive to a heat source that moves directly towards the PIR sensor (Fig.2).

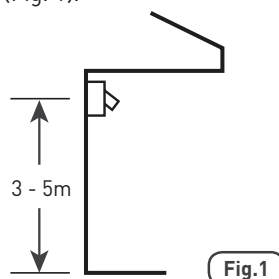


Fig.1

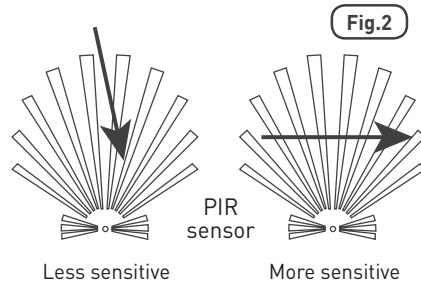


Fig.2

MOUNTING INSTRUCTIONS

- Unscrew the nut from the mounting bracket and remove the bracket from the floodlight.
- Use the bracket to mark the drill hole and the cable outlet location.
- Drill the wall and screw the bracket onto the wall using the wall plugs and screws provided (Fig.3).
- Re-attach the floodlight to the bracket and secure the cable (and additional lighting load supply cable if applicable) to the wall using suitable clips.
- Ensure that the cable is not touching the body of the floodlight, and that there is sufficient slack in the cable to allow the floodlight to be tilted and adjusted as required.

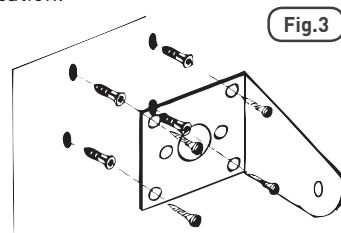


Fig.3

NB: Tilt and adjust the floodlight by grasping the metal body of the floodlight, not the wiring box.

INSTALLATION WIRING INSTRUCTIONS

! WARNING: Isolate the power supply before installation.

- The unit requires connection to a 220-240 AC 50Hz mains electricity supply.
- It is recommended that the unit is connected to the domestic lighting circuit via a 5 amp fused spur and using 3-core round flexible cable of at least 1mm² gauge (Fig. 4).
- It is also advisable to install a single pole wall switch to allow easy control of the floodlight.
- Prior to installing the floodlight the cable gland needs to be attached by undoing the four screws from the wiring box, removing the cover (Fig.5) and fitting the gland to the wiring box, as shown in (Fig.6).
- The AC cable should then be routed through the cable gland as shown in (Fig.7).
- To connect, strip approximately 6mm of insulation from each of the 3 cores of the AC cable and:
 - Connect the wire coloured BROWN or RED (Live) to the corresponding BROWN wire in the terminal block, or the terminal marked "L"
 - Connect the wire coloured BLUE or BLACK (Neutral) to the corresponding BLUE wire in the terminal block, or the terminal marked "N"
 - Connect the wire coloured YELLOW/GREEN (Earth wire) to the corresponding YELLOW/GREEN terminal block marked (Fig.8).
- Finally, gently tighten up the nut against the gland body, to ensure the wire is secured in place by the sealing gland (Fig.7).

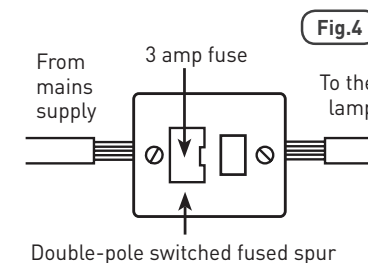


Fig.4

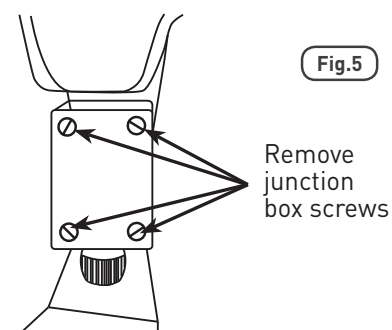


Fig.5

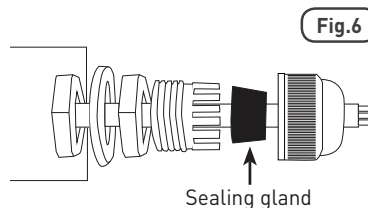


Fig.6

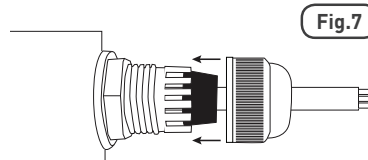


Fig.7

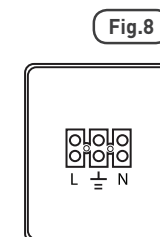


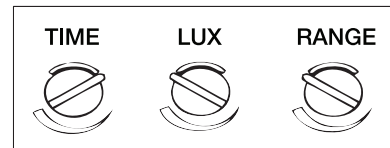
Fig.8

FIRST TIME POWER UP

1. For DAYTIME testing:

- Turn the TIME control (length of time light switches on) to **minimum** and the LUX (ambient light level) control to **maximum**.
- Turn on the power to the floodlight.
- The floodlight will turn on for approx. 15 seconds before switching OFF.

Fig.9



For NIGHTTIME testing:

- Turn the TIME control (length of time light switches on) to **minimum** and the LUX (ambient light level) control to **minimum**.
 - Turn on the power to the floodlight.
 - The floodlight will turn on for approx. 15 seconds before switching OFF.
2. Check the operation of the sensor and the field of view by walking in front of the floodlight so that the light comes on.
 3. Once the light comes on, move to a new position and stand still until the light goes out (approx. 15 sec), move again until the light comes on.
 4. Repeat step 3 and adjust the angle of the sensor head until the optimum field of view is achieved.
 5. Finally, turn the TIME, LUX and RANGE (to alter detection range of PIR) controls to the desired positions for AUTO operation..

TIME SETTING

- The TIME control should be turned up if the lights are required to switch on for longer.
- Time is adjustable between approximately 15 seconds to 5 minutes.
- If a moving heat source is detected, the sensor is triggered, switching on the light and beginning timing out according to the pre-set TIME period. If triggered further, the light will stay on for the pre-set time period from the last trigger.
- The ideal ON time for general domestic situations is usually 2-3 minutes.

LUX SETTING

- The LUX setting adjusts how low the light level needs to go down to (level of darkness) before the light operates.
- For the standard floodlights with PIR, the LUX control adjusts the light level at which the light and PIR operate. For the DUO, dusk-to-dawn model, the LUX level adjusts the light level at which the floodlight will operate in its dimmed-down mode, increasing to full power when activated by the PIR.

RANGE SETTING

- The RANGE sensitivity of the PIR is affected by the range of detection and the amount of infra-red radiation (heat) required to trigger the sensor.
- The RANGE sensitivity adjustment can also be used to compensate for the changes in outside air temperature in winter and summer.
- To be effective but keep nuisance tripping to a minimum it is advised to turn the RANGE control to the middle position where the ambient air temperature is between 15°-20°C.

5 YEAR WARRANTY

In addition to statutory rights, Hylite LED Security Floodlights carry a full 5 year warranty against manufacturing failure, so long as installation, operation and maintenance has been carried out in accordance with the instructions contained in this booklet. All returns are subject to a £15 handling charge.