



## HM-02

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*The LED floodlight is an energy efficient, high-powered outdoor LED floodlight. The floodlight is suitable for installation on most walls in a range of locations including entrances, gardens, garages and outdoor parking areas.*

### IMPORTANT SAFETY INSTRUCTIONS

This product should only be installed by a competent individual who is familiar with all applicable codes and/or regulations that may apply to the installation of this product. In certain jurisdictions this product needs to be installed by a licensed electrician.

*Please follow these instructions carefully before attempting to install and operate this light.*

The risk of electric shock should be minimized by the installation of appropriate safety devices including the incorporation of a GFCI (Ground Fault Circuit Interrupt). 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.

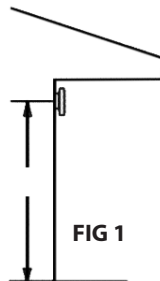
DO NOT position the light near flammable, combustible or explosive liquids, solids, gases or equipment.

DO NOT direct the light into a person's eyes. The light output is very intense and if used incorrectly could cause eye damage.

ALWAYS maintain the light in good condition, with repairs undertaken only by a qualified electrician.

### PARTS INCLUDED

- 1 x LED floodlight
- 1 x Connection box
- 1 x Cable gland
- 1x "C" bracket
- 2 x screw knobs
- 4 x Connection box screws
- 4 x Connection box screw covers
- 4 x Connection box mounting screws
- 4 x Connection box mounting screw covers



### CHOOSING A MOUNTING LOCATION

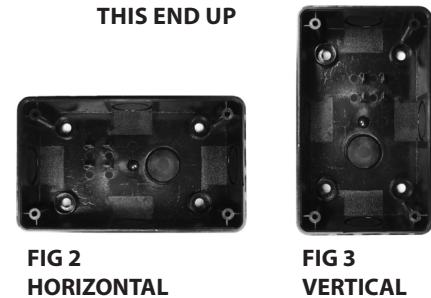
Mount the floodlight onto a solid structure, 10-15ft above the ground (Fig. 1)

### INSTALLATION AND WIRING INSTRUCTIONS

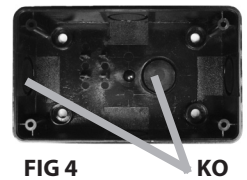
**Warning:** Isolate the power supply before installation and turn off the A/C power to the circuit.

The unit requires connection to a 120V 60Hz power supply. It is recommended that the unit is connected to the domestic lighting circuit using 2 conductor round flexible cable of 14 AWG. If the cable is used outdoors, you must use waterproof cable.

Position the unit on the wall and mark the position for the connection box (which can be positioned horizontal or vertical (Fig. 2, 3)



Ensure the wires can easily enter the connection box through either the knockout (KO) at the back of the connection box, or through those at the sides (Fig. 4)



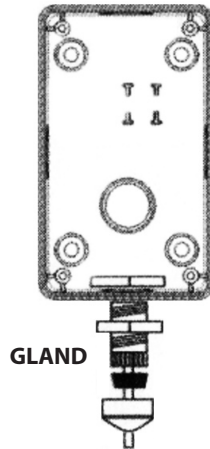
Mark the 4 drill holes required to secure the box to the wall (and mark the cable outlet location if required). Or use the "C" bracket to mount to a wall. If using the "C" bracket, use the knockouts on the side of the box to attach the bracket with the screw knobs

Drill the wall and screw the connection box onto the wall using the screws provided. Or mount the "C" bracket to the wall using two screws. Once the screws are attached, the screw covers (provided) should be used to stop any water ingress through the mounting holes.

If feeding a wire through the knock-out at the back of connection box, use silicone sealant to completely seal between the back of the connection box and wall surface to prevent water from seeping into the connection box. The silicone sealant should be waterproof & UV proof. If feeding a wire through a knock-out on the side of the connection box the cable gland should be used and installed as shown in Fig. 5. Once the sealing gland is installed the nut should be gently tightened up against the gland body to ensure the wire is secured in place and no water can get into the connection box.

Feed the A/C cable into the connection box and strip approximately 1/4" of insulation from each of the 2 conductors of the A/C wire and attached to the terminal block as shown in Fig. 6, black wire to black (hot) white wire to white (neutral).

FIG 5



## LED FLOODLIGHT PIR SETTINGS

The LED floodlight has three adjustment knobs as shown in Fig. 8 to adjust the light level for activation, the time duration of the light and the sensitivity of the IR sensor.

The adjustment knob labeled "F" adjusts the outdoor light level (LUX) required for the LED floodlight to operate. A setting of 1 requires complete darkness for the unit to operate. A setting of 5 allows the unit to work in full daylight.

The adjustment knob labeled "T" controls the time the light will remain on once triggered. This adjustment ranges from approximately 5 seconds to 10 minutes. Turning the knob clockwise increases the time duration.

The control labeled "R" changes the sensitivity of the IR detector. This adjustment should be placed at mid-range and then adjusted if you have false triggers or light is not coming on when it should. Turning the knob clockwise will increase the sensitivity of the sensor.

## TROUBLESHOOTING

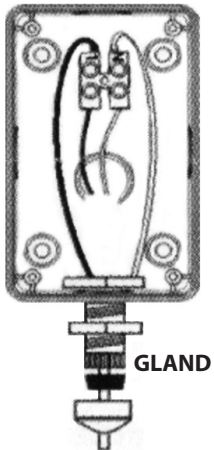
### Lights won't come on

- Power not on
  - Turn on indoor switch or check fuse.
- Wired incorrectly
  - Check wiring is the same as wiring diagram.
- PIR not detecting movement
  - Adjust the angle and direction of the PIR.
  - For best results walk across the beam.
- Light conditions too bright
  - Wait until light conditions are darker (at dusk) or turn the LUX control up.

### Lights stay on

- TIME set too high
  - Turn 'Time' knob towards '-' end (approximately 5 secs to 10 min adjustable).
- Wired incorrectly
  - Check wiring is the same as wiring diagram.
- Frequent changes in heat are being detected
  - 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.

FIG 6



Make sure the waterproof seal to the lid is in place (Fig. 7) and fasten to the connection box using the 4 connection screws provided. Install the provided screw covers. To adjust the LED floodlight simply hold the connection box firmly while moving the head of the floodlight to the required position. If using the "C" bracket, the junction box can be swiveled to the desired position and then the light head can be further swiveled.

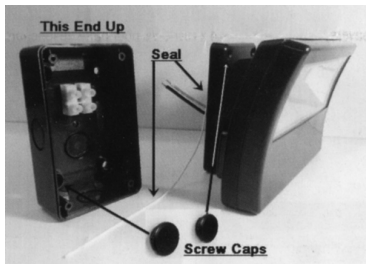


FIG 7

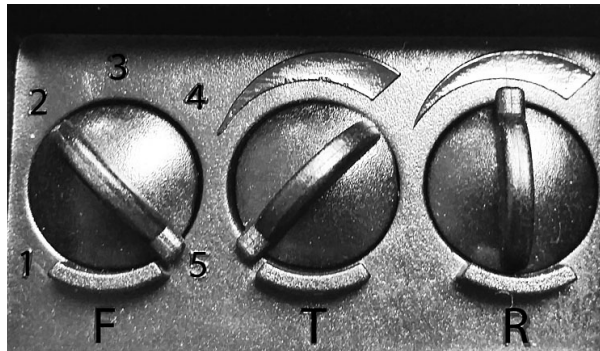


FIG 8

**F = LIGHT LEVEL (LUX)**

**T = TIME DURATION (APPROX. 5 sec -10 min)**

**R = DETECTION RANGE**

### Lights keep turning on and off (cycling)

- Changes in heat are being detected from a fixed heat source
  - Check the sensing area for air vents, light fittings or fans and either re-position the sensor or adjust the aim.
- Changes in heat are being detected from a moving object
  - Check the sensing area for moving vehicles, animals, pedestrians, moving trees and alter the aim of the sensor accordingly.
- Light and heat are being reflected back onto the sensor
  - Alter aim of the sensor or paint the reflecting surface with a dull finish.
- Sudden temperature changes due to storms or high winds
  - Turn sensor off until storm passes or install in a sheltered location.

### Sensor operates differently in hot and cold conditions

- Temperature differences are affecting the sensor's sensitivity
  - Turn the sensitivity (RANGE) control knob toward the MAXIMUM end for summer (hot conditions) and toward MINIMUM for winter (cold conditions). This compensates for variations in temperature.