



500W HALOGEN FLOOD LAMP with Security Sensor

Cat R605/6

Weather protected. IP44

Important: Read this information before use

Warning: During operation, lamp housing can exceed 116°C (240°F). Locating the lamp within 50mm (2") of combustible material can result in fire.

To prevent the possibility of electrocution or severe burns, do not touch the lamp when it is switched on.

Mount lamp above touchable height. 2.4 metres or more is recommended.

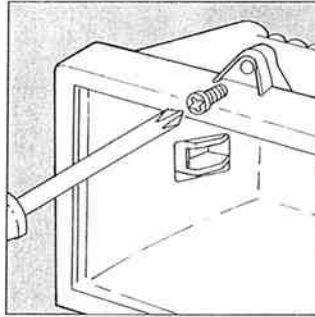
1. External metal parts of the body of the flood lamp develop high operating temperatures. To avoid possible injury, do not touch the flood lamp when it is in operation. Turn power off and allow unit to cool before touching.
2. These lamps must not be used in potentially dangerous locations, such as flammable or explosive situations.
3. Do not open this lamp when it is on. Turn fixture off and allow plenty of time to cool before servicing or touching.
4. Do not operate in close proximity to combustible materials, or substances affected by heating or drying.
5. Flood lamp is not intended for indoor use such as in bathrooms, saunas, etc.
6. Lamp must be installed by a licensed electrical contractor or similarly qualified person.
7. **Warning: Failure to follow the above safety instructions could result in fatal electric shock and other hazards.**

SPECIFICATIONS Cat R605/6

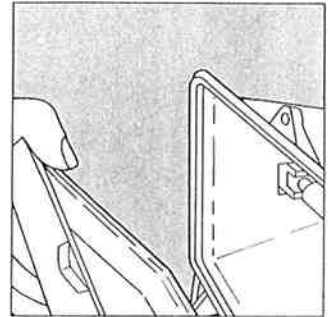
POWER:	230-240V ac 50Hz @ 2.1A
MAX TUBE RATING:	500W
RATING RELAY CONTACT:	500W max. (resistive)
DETECTION RANGE:	Max. 12m at 20°C
HORIZONTAL DETECTION ANGLE:	110°
MOUNTING HEIGHT:	2.4 to 3 metres
FLOOD LAMP ANGLE:	Adjustable through 180°
OPERATIONAL MODES:	Automatic and manual
TIME PERIOD:	5 seconds to 12 minutes (approx.)
SETTLING TIME:	1 minute (approx.)
DAYLIGHT OVERRIDE:	Adjustable
FLOODLAMP:	Cast zinc alloy. IP44
PIR SENSOR UNIT:	Fire, water and UV resistant. IP44
APP. NO.:	N 13780

Inserting or replacing halogen globe.

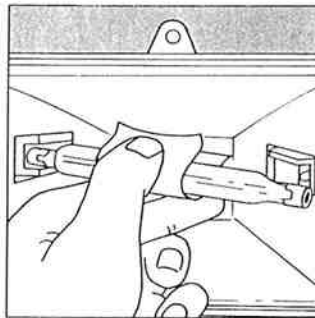
Caution: Be sure that power is turned off and circuit breaker is in the off position or fuse is removed from switchboard. Allow time for unit to cool before handling.



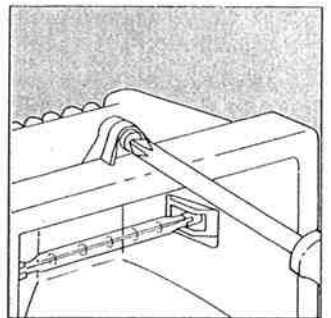
1. Unscrew retaining screw on top of lamp. This will release front surround and glass faceplate.



2. Lower front surround down. It will be retained by the hinges.



3. To insert halogen globe: Unwrap globe, taking care that fingers do not touch the globe. Use the wrapping paper to handle globe. Push one end of the globe into either of the spring loaded sockets. Locate the other end on the other socket and release.



4. Carefully replace the front surround making sure that the seal is in place and that it is correctly positioned. Screw up tightly.

NOTE: Do not touch the globe with your fingers as this will leave an oily substance on the globe and will possibly restrict its life.

Replacement halogen globes to a maximum of 500W are available from electrical and hardware stores.



**500W HALOGEN FLOOD LAMP
Cat R605/6**

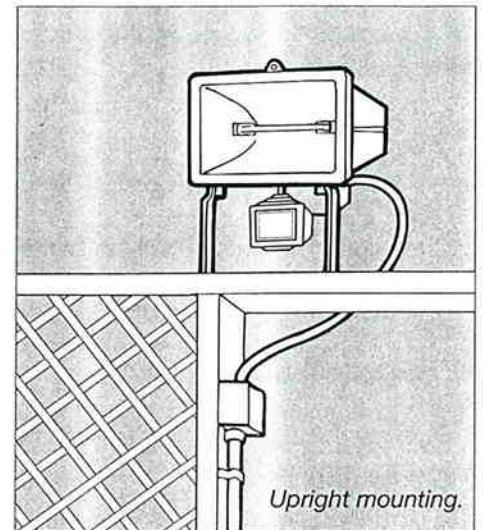
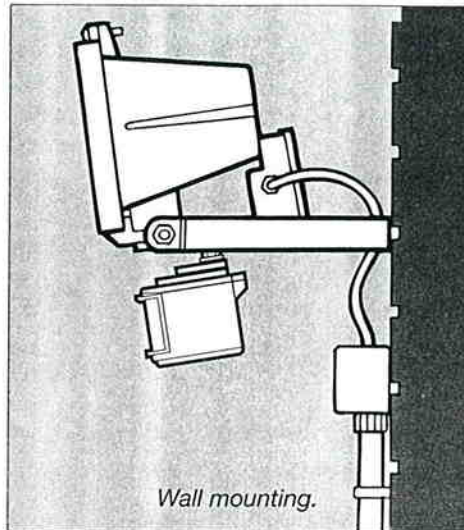
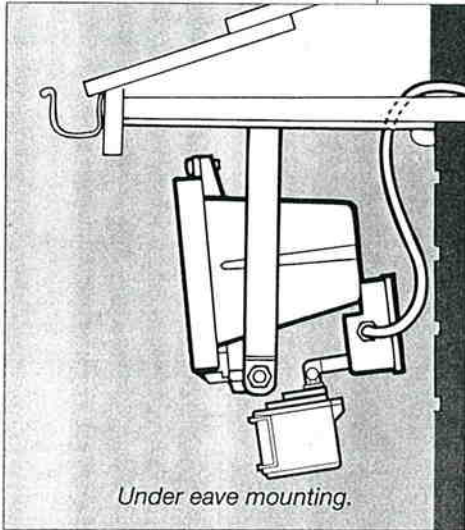
HPM Industries Pty. Ltd.

INN197AAHPAA

HPM 500W HALOGEN FLOOD LAMP with Security Sensor

Note: This lamp must be installed by a licensed electrical contractor or similarly qualified person.

Positioning the lamp



Wiring

Unscrew retaining nut shown in Fig 1.
Remove rubber seal and place nut and seal on the cable shown.
Push cable in until seal is in position.
Tighten nut to provide a weatherproof seal. Clamp as shown in Fig 2.
Connect cable as shown in Fig 2.

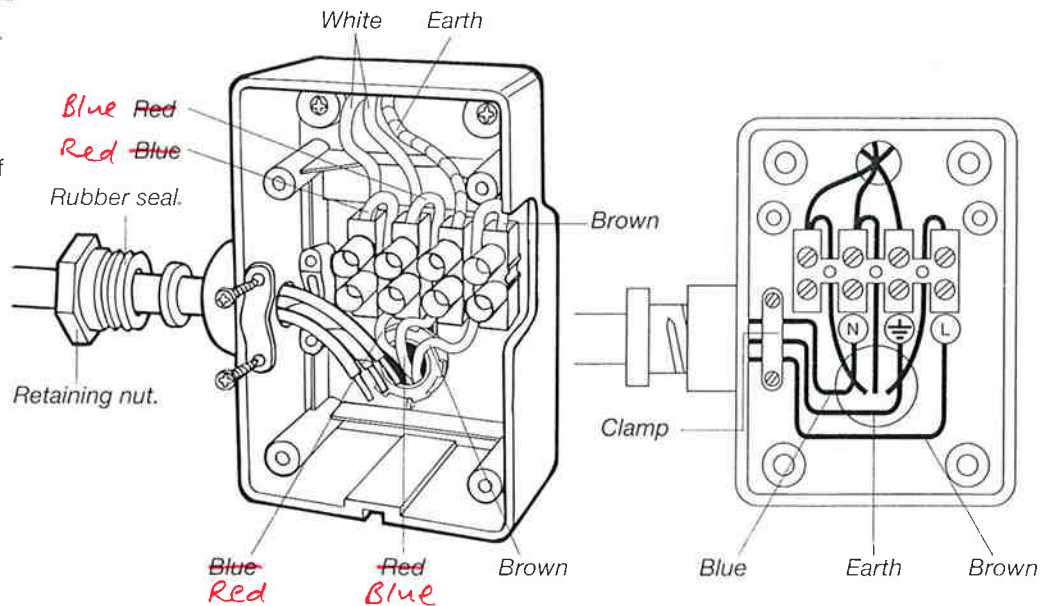


Fig 1.

Fig 2.

Warranty

HPM Cat R605/6 is warranted against faulty material and/or workmanship for a period of 12 months from date of purchase.

The obligation of the manufacturer, under this warranty, is limited to servicing and replacing defective parts when the unit is returned to HPM Industries Pty. Ltd. or the distributor in your state, freight pre-paid.

This warranty becomes void on any unit which has been tampered with or damaged by accident, short circuited, loaded beyond rating or damaged otherwise by improper operation.

This warranty is also conditional on the unit being installed by a licensed electrical contractor. All other warranties, whether expressed or implied, and whether arising by operation of law or otherwise are hereby excluded.

HPM Industries Pty. Ltd.

Selecting a Location

Select a location for the flood lamp based on the coverage angles shown in Figs 3 & 4 and the following criteria:

To avoid risk of fire, it is extremely important that the flood lamp is not attached to combustible materials (e.g. wood or PVC cladding), and that no objects are placed closer to the flood lamp glass cover than one metre.

The flood lamp should be firmly attached to an exterior brick, building block or other non-combustible wall at a height of 2.4 to 3 metres above ground level.

Since the housing and glass cover of the flood lamp will become extremely hot when the halogen tube is switched on, the flood lamp should be located so that it will not be touched accidentally.

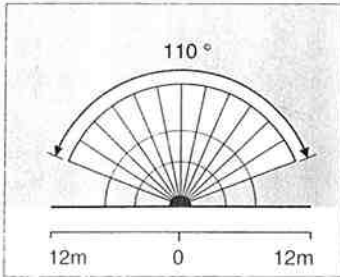


Fig. 3. 110° surveillance.

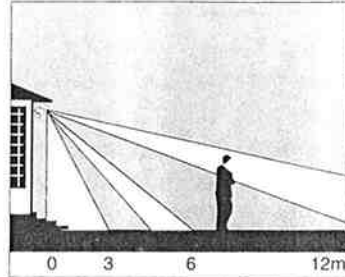


Fig. 4. Three levels of view. Adjustable range.

The flood lamp should not be located over heating vents, air-conditioning units.

To avoid false triggering, do not aim the sensor where the movement of pets may be detected.

Do not aim the flood lamp or the sensor unit at nearby light-coloured (e.g. white) objects, otherwise reflected light may cause the photo-cell in the sensor to switch off the flood lamp. Similarly, do not aim other lights at the sensor unit.

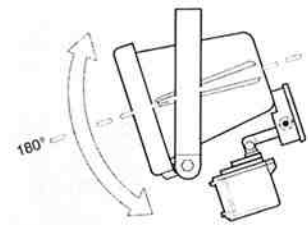
TROUBLE SHOOTING SUGGESTIONS

PROBLEM	LIKELY CAUSE	POSSIBLE SOLUTION
Light will not switch on when there is movement in detection area.	1. Power not available.	Check connections, switches and fuse.
	2. Faulty globe.	Replace globe.
	3. Incorrect wiring.	Recheck all wiring.
	4. Controls incorrectly set.	Change detection angle. Adjust sensitivity.
	5. Sensor positioned in wrong direction.	Change position and direction of sensor.
Light switches on for no apparent reason.	1. Air conditioner, heater, vents in proximity of sensor.	Reposition and redirect sensor.
	2. Animals or birds.	Possibly unavoidable. Redirect sensor. Adjust sensitivity.
	3. Interference on same circuit.	Check for arcing switches, replace noisy fluoro tubes and/or starters. Consider connecting flood lamp/sensor to different circuit.
	4. Reflective objects in detection area.	Redirect sensor and, possibly reposition.
Light will not switch off after set time has elapsed.	1. Light is in manual mode (not in automatic).	Switch light off for at least 5 seconds then switch back on to return it to auto mode.
	2. Wiring is incorrect.	Recheck wiring.

Installation

The Lamp

Depending on position of mounting, the lamp has a vertical adjustment of over 180°



The Sensor

The most effective positioning of the sensor usually takes a little experimentation. After the lamp is fixed in position the sensor may be turned 180° horizontally and approx 30° vertically to provide the most effective surveillance angle

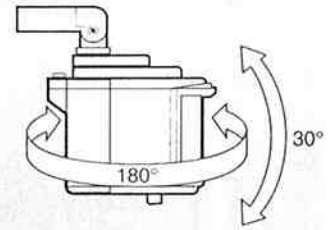


Fig. 5.

Check that the mains supply is switched off, then provide mains supply wiring and a cable outlet in the vicinity of the flood lamp.

Remove the mounting bracket from the flood lamp, drill the location and screw the bracket onto the wall or eave using suitable wall plugs and screws. Check that the bracket is securely fitted. Do not at this stage re-attach the flood lamp to the bracket.

Connect the flexible cable to the flood lamp as follows: remove the cover screws from the wiring box on the rear of the flood lamp, loosen the cable clamp, and unscrew the waterproof cable gland. Prepare the cable for connection by removing sufficient sheath from the cable and insulation on the three conductors. Place retaining nut and seal over flexible cable. Force the flexible cable through the cable gland and underneath the cable clamp. Referring to Figs 1 & 2, connect the BROWN (LIVE) wire to the terminal marked 'L', connect the GREEN/YELLOW (EARTH) wire to the terminal marked \perp and connect the BLUE (NEUTRAL) wire to the terminal marked 'N'. Secure the cable clamp, but do not overtighten, ensuring that the cable sheath is firmly anchored and tighten the cable gland. Refit the wiring box cover. Do not overtighten the screws.

Ensure that the cable is not touching the die-cast body of the flood lamp. Tilt and adjust when cold, check that the main switch is off.

Install the halogen tube, see 'Tube Replacement'.

Connect the flexible cable to the flood lamp mains supply wiring.

Angle the sensor unit, to give the best coverage of the detection zone, see Figs. 4 and 6. Angle the flood lamp housing to illuminate the required area.

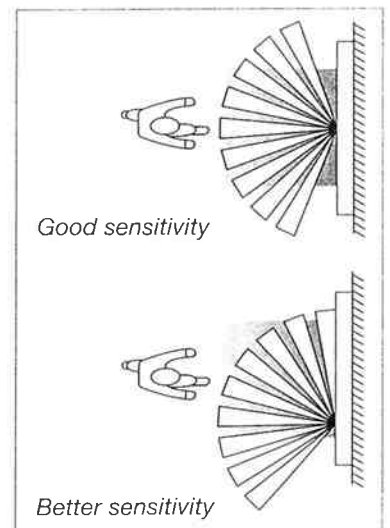


Fig. 6. The PIR's ability to sense movement is enhanced if the PIR is angled so that the person moves 'through' (not into) the surveillance fingers.

Time Period Adjustment

The time period control sets the duration that the flood lamp will be illuminated for, having been activated by the sensor unit detecting movement in the surveillance zone. The time period is adjustable over a range of 5 seconds to 12 minutes. The shortest time period is with the TIME control set fully anti-clockwise.

To set the time period, set the TIME control at an arbitrary position, trigger the sensor unit and measure the time period for which the flood lamp is illuminated. Increase or decrease the time period as required and re-trigger the sensor unit. Continue with this process until the desired time period is obtained.

Light Level Adjustment

The light level control determines the light level at which the daylight override is operative. This will prevent the flood lamp from operating during daylight hours. As the light level decreases in the evening, the sensor unit will be reactivated and the flood lamp will resume operation.

To set the light level control, turn the LIGHT control fully clockwise. Wait until the light level falls to the required level corresponding to when you wish the sensor unit to detect movement and activate the floodlamp, (i.e. dusk). Rotate the LIGHT control slowly anti-clockwise until the flood lamp illuminates.

Testing

Referring to Fig 7, set the light level 'LIGHT' and time period 'TIME' controls to their 'TEST' positions (fully anti-clockwise). Turn on the mains supply to the flood lamp and wait about 1 minute for the sensor unit to settle. (During the settling time the flood lamp may act unpredictably – this can be ignored). After the unit has settled, perform a 'walk test' in the detection zone; when movement is detected the flood lamp will illuminate, and when motion ceases the flood lamp will extinguish after a short period. Wait 5 seconds between each walk test. If necessary adjust the angle of the sensor unit. Note: Be careful not to touch the flood lamp housing as it is likely to be very hot.

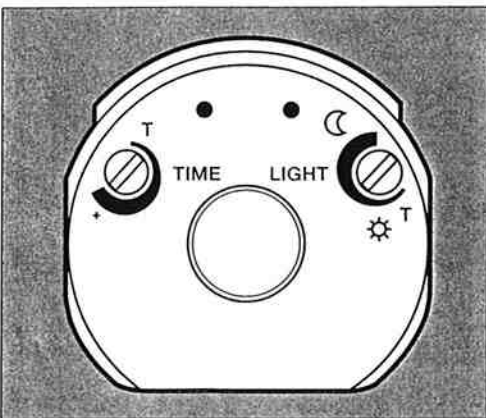


Fig. 7. The LIGHT and TIME controls

Operational Modes.

By using the flood lamp's mains supply on/off switch, the mode of operation may be selected; either automatic or manual.

1. Automatic Mode

In the automatic mode, the sensor unit will detect movement and illuminate the flood lamp, except when the daylight override is in operation. This is the mode of operation that has been used so far.

To select the automatic mode, turn off the flood lamp's on/off switch, wait 6 seconds and turn the switch back on. The flood lamp is now in the automatic mode, please note that there is a 1 minute (approx.) settling period, during which the sensor unit will not detect any movement.

2. Manual Mode

In the manual mode, the flood lamp will remain illuminated for as long as the on/off switch is turned on, regardless of movement or light level.

To select the manual mode, turn off the flood lamp's on/off switch and within 2 seconds turn the switch back on. To return to the automatic mode, see 'Automatic Mode' above.

Automatic or Manual Switching by installation of a separate switch

The above method of selecting automatic and manual control can present a problem for the uninitiated.

In these instances the resident will find it more convenient to have a separate switch to control the automatic and manual operation.

The wiring diagram below shows how an additional isolation switch simplifies the switching.

The on/off switch on the left controls the power to the lamp and sensor. When switched on, power is available to the lamp and sensor. When switched off there is no power available.

The manual/PIR Switch is operational **only** when the on/off switch (left) is turned **on**. In the PIR position, the lamp and sensor operate in automatic mode. When switched to 'manual' the lamp is manually controlled and will stay on until the switch is returned to PIR or until on/off switch is turned off.

A wiring diagram showing the two switch wiring is shown below.

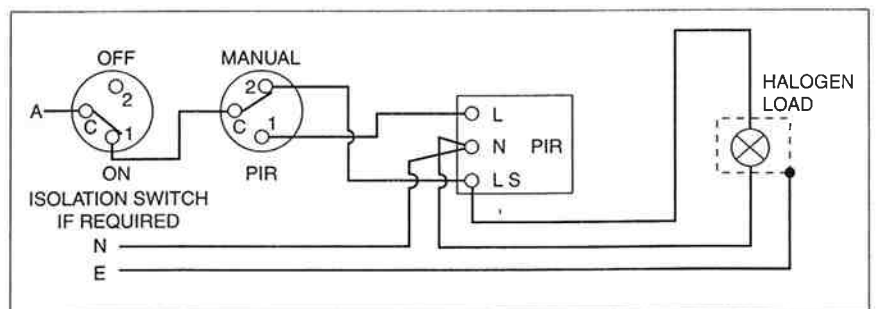


Fig.8.



Made in China.

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