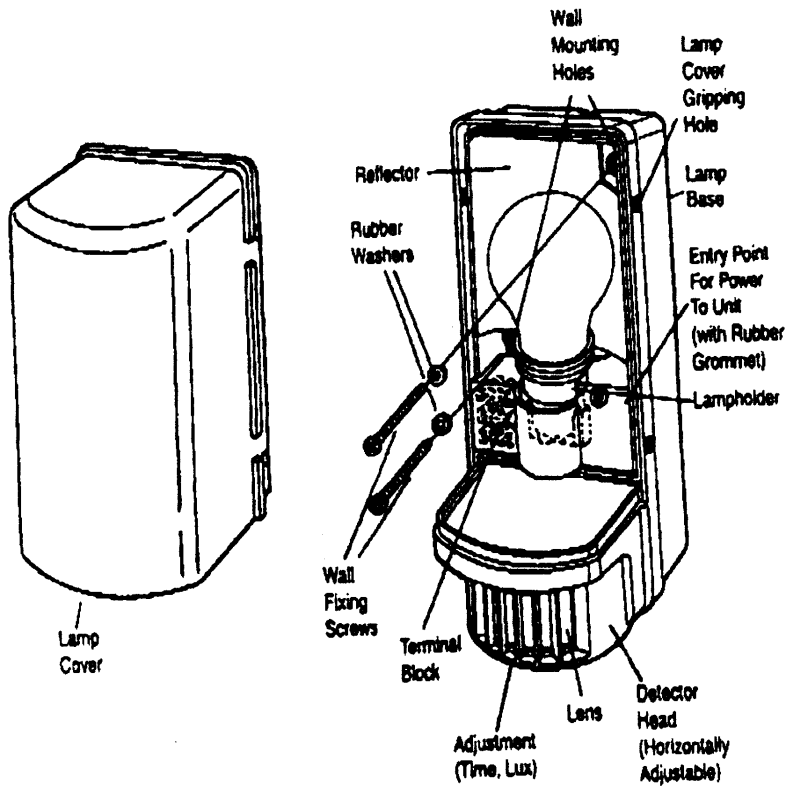


551-429



PIR WELCOME LIGHT

INSTALLATION AND OPERATION MANUAL



MODEL: BH-1

I-MANL-IQBH1N

GENERAL INFORMATION



The Bulkhead with PIR security luminaire utilises the latest in PIR technology to detect any intrusion into the protected area, immediately illuminating the integral light for a user-determined period. The unit has applications both as a courtesy light to welcome visitors and as a security light to deter intruders. The unit is activated by moving sources of heat, such as human bodies or animals.

** IMPORTANT **

Read all instructions before proceeding with installation. This product should be installed by a qualified tradesperson. This product requires connection to a 220-240 V ac, 50-Hz power source. This product is for external wall mounting only in a vertical position. The lamp can get hot during illumination. Ensure lamp & housing has cooled before handling. To avoid risk of fire, ensure adequate space is allowed between the lamp and any object above, in front or to either side of the lamp. The suggested space to allow adequate ventilation is 0.5m above, 0.3m to either side and 1.0m in front.

Parts included in this box are:

- Bulkhead with PIR (Model : BH-1)
- This instruction manual. After installation, please keep for future reference when needed.
- An accessory pack containing:
 - 2 x wall fixing screws
 - 2 x rawl plugs
 - 2 x rubber washers

Tools & parts needed to install the Bulkhead with PIR are:

- Electric/hand-held drill + drillbit to suit rawplug dimensions.
- Screwdriver to suit the mounting screws.
- Terminal screwdriver.
- Hammer

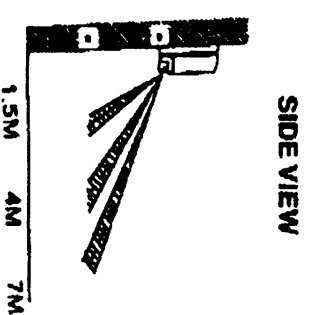
SELECTING A SUITABLE LOCATION



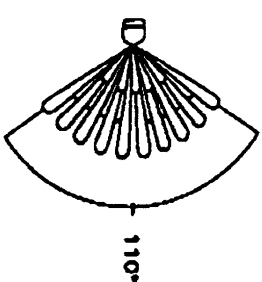
Several factors should be taken into account when selecting a location for your security light. The detector has a number of detection zones, at various vertical and horizontal angles as shown. A moving human body needs to cross/enter one of these zones to activate the sensor. The best all-round coverage is achieved with the unit mounted at the optimum height of 2.0m.

The PIR head is designed to rotate freely in it's casing in a horizontal direction. Careful positioning of the head will be required to ensure optimum performance. The head angle may require adjustment during walk testing to achieve the desired coverage.

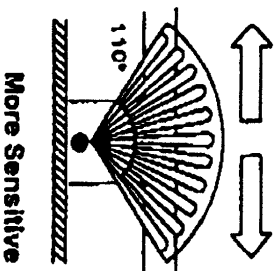
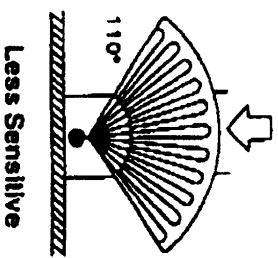
The PIR sensor is much more sensitive to movement ACROSS its field of vision than to movement directly TOWARDS the sensor. Position the unit so that the sensor looks across the normal angle of approach to your property.



SIDE VIEW



TOP VIEW



More Sensitive

Less Sensitive

MOUNTING

3

After choosing a suitable location (bearing in mind the advice given in section 2), fix the unit to the wall (using the screws, washers and plugs provided) as follows:

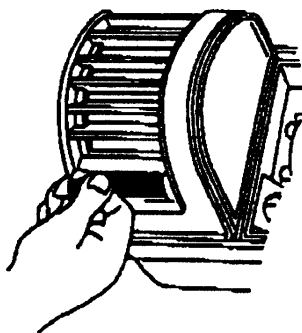
- Remove the lamp cover. A flat-headed screwdriver can be used for this purpose. Insert the screwdriver head into one of the slots along the sides of the lamp cover. Gently lever the screwdriver away from the unit until the retaining clip is released from its socket hole. Repeat this procedure for all four slots. The lamp cover should now remove easily.
- If it is necessary to drill two mounting holes in the surface to which the unit is to be fixed. The unit's mounting holes are in the top right and bottom left hand corners of the lamp housing.
- Hold the unit in position at the desired location (the unit must be in a vertical position). Mark the two mounting hole positions with a pencil. Drill holes at these points, ensuring that the hole diameter is suitable for the rawl plugs provided. Insert the rawl plugs into the holes (use a hammer if necessary to ensure they are fully inserted).
- Mount the unit by aligning the holes in the lamp housing with the holes in the wall, insert the screws (with the rubber washers in place) and tighten until the unit is held firmly in place.

NB: You may wish to pass the power supply cable through the cable entry grommet (see section 4) before fixing the unit to the wall as this will allow easier installation.

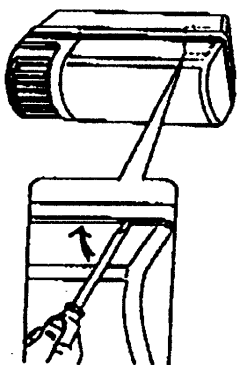
To reduce the possibility of false activation of the sensor, avoid positioning the unit where there are any sources of heat in the detection area (e.g. away from central heating outlets, extractor fans, tumble dryer exhausts etc). Trees, shrubs and overhanging branches, when blown by the wind, may be a nuisance for human bodies and cause false triggering. Reflective surfaces (pools of water, white-painted walls etc) can also fool the sensor into thinking an intrusion has occurred. The unit should be positioned to avoid all of the above, if possible, to ensure trouble-free operation.

If, during normal operation, it is observed that a tree etc. is causing false triggering, the sensor lens can be "masked" using ordinary masking or electrical tape to prevent the sensor from "seeing" the cause of the false alarm. Mask off a small area of the lens which corresponds to the position of the object. It may be necessary to alter the size/position of the mask until the desired effect is achieved. As a guide, the top half of the PIR lens corresponds to long range detection, whilst the bottom half is for short range. Similarly, the left half of the lens corresponds to the left side of the detection area and vice versa.

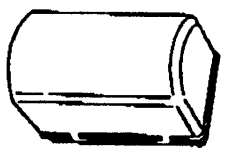
During extreme weather conditions (high winds, heavy rain etc) the PIR sensor may exhibit unusual behaviour (false activation, light staying on for long periods etc). This does not indicate a fault with the sensor. Once normal weather conditions return, the sensor should resume normal operation.



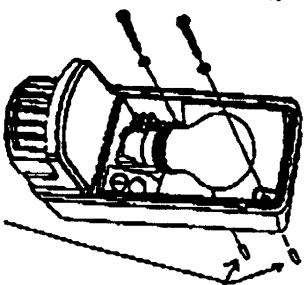
Masking Out Lens Segments



Use a flathead screwdriver



Rawl plugs in wall holes



4 WIRING AND CONNECTIONS

The unit requires connection to a 220-240V ac 50 Hz mains electricity supply. This is best achieved by connecting the unit to the domestic lighting ring main. It is suggested that 3-core round flexible cable of at least 1mm² gauge is used. It is also allowable for the unit to be connected to the domestic socket ring main, though it is suggested that a 5 Amp fused spur is used in this case. The unit can also be connected to a standard 3-pin plug, fitted with 5 Amp fuse, and plugged into a suitable domestic socket.

"IMPORTANT"

ALWAYS switch OFF the mains power **BEFORE** attempting to install the BH-1. If in any doubt, consult a qualified electrician/tradesperson.

An indoor wall switch should be used to switch the power to the unit ON and OFF. This allows the sensor to be easily switched off when not required or for maintenance purposes.

Connect the cable to the unit as follows:

- Remove the terminal cover plate by unscrewing the small holding screw.
- Puncture the rubber cable entry grommet with a sharp tool. Pass the cable through the hole in the grommet, ensuring that the rubber forms a watertight seal around the cable.
- The cable should have three wires: brown (live), blue (neutral) & green/yellow (earth). Connect these to the relevant terminals in the unit as below.

Brown (live) to terminal L
Blue (neutral) to terminal N
Green/yellow (earth) to the earth tag on the reflector plate (marked \perp).

- The unit requires a 60W (max) incandescent GLS lamp (ES cap). Screw this into the lampholder. Do not overtighten the lamp or you may damage the lamp or lampholder.
- Replace the lamp cover.

