

## HELPLINE

For assistance with any Voltek product please telephone **01282 695500**

## SPECIFICATIONS

### PIR Sensor

Operating voltage	12V dc
Alarm current consumption	12mA (LED enabled) 6mA (LED disabled)
Standby current consumption	3mA
Sensor	Dual element, thermally stabilised
Signal output	Standby - 12V through a 22K resistor Alarm - 0V through a 100R resistor
Ambient light level sensor	20MΩ
Detection	18 metres (max) over 90° (standard lens)

### Lighting Controller

Operating voltage	230Vac 50/60Hz
Output	230Vac 10A (2.3KW)
Output fuse	20mm 10A td (time delay)
Low voltage output	12Vdc 100mA
Timer	3 seconds to 7 minutes (resetable type)
Night time start	adjustable from bright day light to pitch black.

Operating temperature	-10°C to +40°C
Weatherproofing	IP55
Dimensions	1800, 1802, 1811 - 59W x 39H x 56D mm 1803 - 120W x 90H x 63D mm 1804 - 90W x 113H x 84D mm
Package weight	1800 - 0.56Kg 1802 - 0.59Kg 1803 - 0.41Kg 1804 - 0.16Kg 1811 - 0.4Kg
Package size	1800, 1802, 1811 - 77W x 163H x 165D mm 1803, 1804 - 95W x 95H x 117D mm
Approvals	CE directive 93/68/EEC EMC directive 89/336/EEC BS EN 50081-1 : 1992, BS EN 50082-1 : 1992 Low voltage directive (LVD) 73/23/EEC



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\*Helpline calls cost 60p/minute. Open 9am to 5pm, Mon to Fri.  
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# INSTALLATION & USER INSTRUCTIONS

**1800**

***Securilite Single Head Control Unit***

**1802**

***Securilite Twin Head Control Unit***

**1803**

***Securilite Single Zone Control Unit***

**1804**

***Securilite Single Head External Sensor***

**1811**

***Securilite Twin Head External Sensor***



## CONTENTS

Introduction .....	1
Features .....	1
Safety First .....	2
Positioning the products .....	2
Installation .....	3
Testing and setting up .....	6
Warranty .....	6
Helpline .....	6
Specifications .....	7

## INTRODUCTION

The Securilite system consists of three parts, firstly a 12V PIR sensor for detecting people, secondly, the 230V lighting controller for switching the lights, and thirdly, the optional command centres which provides the user with additional control over the system.

The PIR sensors are available as either a single sensor, giving up to 90° of coverage, or a twin sensor, which will give up to 180° of coverage and can also see down two sides of the same building when mounted on the corner using the optional 1806 corner bracket kit.

The PIR sensors are also available with a built-in lighting controller, providing you with a 230V PIR, but still with the full versatility of the securilite system.

1800 Single Head Control Unit	- Single PIR & 230V lighting controller
1802 Twin Head Control Unit	- Twin PIR & 230V lighting controller
1803 Single Zone Control Unit	- 230V lighting controller
1804 Single Head External Sensor	- 12V single PIR sensor
1811 Twin Head External Sensor	- 12V twin PIR sensor

## ACCESSORIES

The following optional units can be connected to the Securilite system

1805 RS1 Remote Sounder	- Indoor sounder
1809 IBX Command Centre	- Indoor sounder & control of lighting for single zone
1819 TZX Command Centre	- Indoor sounder & control of lighting for two zones
1806 Corner bracket kit	- Allows 1802 or 1811 to see down two sides of a building

## TESTING & SETTING UP

Before you switch on the power, please double-check that all connections are correct and safe.

### WALK TEST

Turn the time adjustment and the Lux adjustment fully anti-clockwise, so that they are pointing at about the 1 o'clock position. (This will set the unit into walk test which allows the lights to work during daylight and then only come on for approx. 3 seconds with each detection)

Walk around the property making sure that all areas are covered adequately by watching the lights come on when the sensors see you move. (You may need to make sure that no other people are outside the property while performing this test) Make adjustments to the PIR sensors where necessary to obtain the desired coverage. Lock the sensor in position, making sure that you do not overtighten this screw.

### SETTING THE LUX ADJUSTMENT

Turn the Lux adjustment to the half way (6 o'clock) position and allow the lights to switch off. The lights should now only work at night time. To check, move in front of a sensor and check that the lights do not come on.

For the lights to start working later at night - turn clockwise.

For the lights to start working earlier in the evening - turn anti-clockwise.

(Note that the ambient Light sensor only works while the lights are off. When the lights are on, the unit assumes that it is night-time)

### SETTING THE TIME ADJUSTMENT

Turn the Time adjustment to the half way (6 o'clock) position. The lights will now come on for approximately 4 minutes after the last detection, when triggered at night-time.

To increase the lights-on time (max 7 minutes) - turn clockwise

To decrease the lights-on time (Min 3 seconds) - turn anti-clockwise

## WARRANTY

This product has a 2 year manufacturers parts and labour warranty. In the unlikely event that you encounter a problem with this product, please telephone the Voltek helpline on 01282 695500. Should the problem not be able to be resolved over the telephone it should be returned to the place of purchase or direct to Voltek.

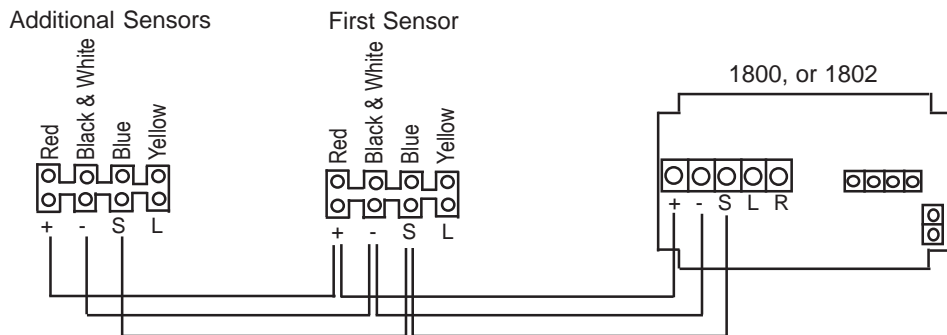
## INSTALLING THE 1804 AND 1811 PIR SENSOR

Use 7/0.2 alarm cable (minimum 4 core) to connect the sensor(s) to the lighting control unit. This is suitable for up to a 100 metre cable run.

For multiple sensors the wiring can either be daisy-chained from one sensor to the next or individually wired back to the lighting controller.

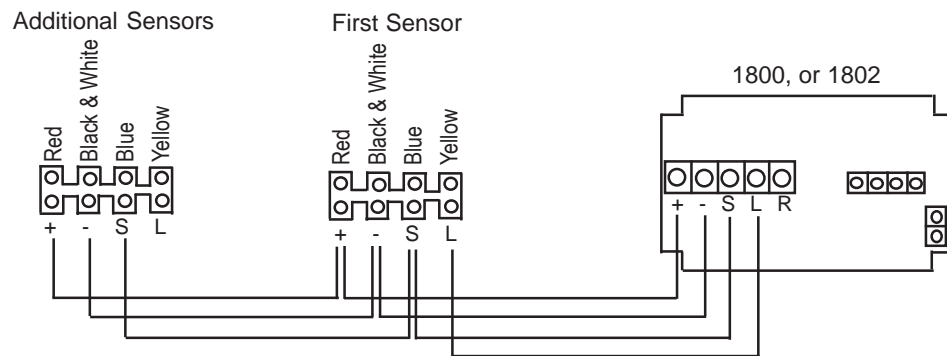
### Connecting to an 1800 or 1802

Note that the L (Light level) terminal is not connected on any sensor



### Connecting to an 1803

Note that the L (Light level) terminal is connected to one sensor only



### Movement Indicator

The red LED behind the PIR lens will light up whenever movement is detected. If you wish to disable the LED, simply cut the white wire.

### Remote Override

To manually switch the lights on, day or night, a switch can be connected between the R terminal and - terminal.

## FEATURES

- Welcomes guests and warns off intruders by automatically switching on the lights around your property when someone approaches.
- Very high quality Passive Infra-Red (PIR) detector using double element, high density, precision optics, providing you with a very responsive and reliable sensor.
- Multiple sensors, lights and internal command centres can be used allowing a very versatile system to be installed.

## SAFETY FIRST

Please read these instructions before attempting to operate the product.

**WARNING :** To prevent fire or shock hazard, do not expose the lighting controller to rain or moisture while the lid is removed. If the lighting controller is to be installed outdoors, ensure it is installed in accordance with these instructions.

**CAUTION : RISK OF ELECTRIC SHOCK :** Do not remove the cover from the lighting controller with the power applied. There are no user serviceable parts inside. Refer servicing to qualified service personnel.

## POSITIONING THE PRODUCTS

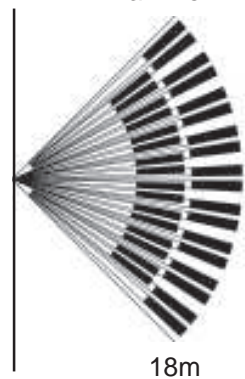
### SITING THE 1800, 1802, 1804 & 1811 PIR SENSORS

For larger installations we recommend that you sketch a plan view of the property. This will help you choose the best position for the PIR sensors. Please bear in mind the following points when choosing a suitable position.

- PIR sensors work best when a persons movement is across the face of the sensor, and not towards the sensor. This is because the person would cross more detection beams (see coverage pattern). This often means that the best place for the sensor is on the corner, looking down the side of the building.
- The sensor should be mounted at a height of between 2.5 to 3 metres on a rigid, vibration free vertical surface.
- Do not locate the sensor near heater flues, air conditioning equipment, etc which will emit warm moving air and will probably cause a false activation.
- Do not locate the sensor close to trees, plants or other shrubbery, as they will emit infra-red energy and will probably cause a false activation.

## PIR DETECTION PATTERN

Plan View



Side View



## SITING THE 1803 LIGHTING CONTROLLER

The 1803 lighting controller may be installed indoors or outside at any convenient mains wiring point. i.e. next to a fuse box or in the loft.

## **INSTALLATION**

**IMPORTANT :** This equipment must be installed by a competent electrician. All wiring must comply with the IEE regulations plus any local building codes.

### INSTALLING THE 1800 AND 1802

Mount the unit securely to the chosen surface ensuring that the PIR sensor is positioned below the main control box.

### INSTALLING THE 1803

Remove the lid from the unit, then unscrew the three screws holding the main board inside the enclosure. Carefully remove the board and put in a safe place.

Mount the enclosure to the chosen surface, ensuring the cable entries are pointing downwards. Use the plastic caps provided to cover the mounting screws. (If these are not put in place, water may get into the unit !)

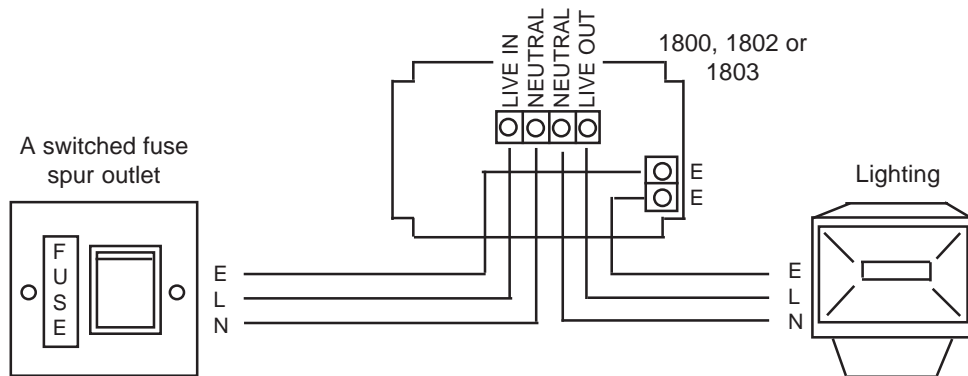
The board can now be put back into the enclosure and use the three screws to secure in place

## CONNECTING THE 1800, 1802 AND 1803

Use twin and earth mains cable (minimum size 1.0mm<sup>2</sup>) to connect the product to a dedicated switched fused outlet or a dedicated circuit breaker (10A type II or type III) in your distribution board.

There are two methods of connecting the mains wiring. Choose the method that suits your installation the best.

### Method 1



### Method 2

