



# Technical Data

## Guardian 6000

### Brief product description:

A comprehensive range of high quality outdoor and indoor security lighting.

Internal passive infra-red

Lighting controller 360 (scan)

### Features:

- Ceiling mounted gives full 360° scan
- Indoor use only
- 1000 Watt switching capability (500 Watt fluorescent)
- Adjustable lux level
- Adjustable timer from 3 seconds to 10 minutes
- Over-ride facility enables permanent operation of controlled lighting
- Adjustable sensitivity

### Product Images



NGD360

### Technical Specifications

Power	220-240V 50Hz
Operating Temperature	0 to 40°C
Max. Load	1000W incandescent / 500W fluorescent
Detection Range	4M/ 360 Degree
Time Adjustment	10 secs to 10 mins
Lux Level (Min to Max)	5 LUX to 2000 LUX
IP Rating	IP20
CE Approval	Yes

### Packaging Information

Cat No.	Description	Packaging Type			Pack Quantity			Barcode		
		Product	Inner Box	Outer Box	Each	Inner Box	Outer Box	Individual	Inner Box	Outer Box
NGD360	Guardian 6000	Printed Box		Plain Outer	1		48			

# Guardian 6000

## Weights & Dimensions

Cat No.	Description	Dimension (W x L x H) cm			Weight (g)			CMB (m <sup>3</sup> )
		Product	Inner Box	Outer Box	Each	Inner Box	Outer Box	Outer Box
NGD360	Guardian 6000	7.3 x 12.5 x 11.5		40 x 49.3 x 33.5	220		11200	2.3

## Installation Information

### Safety Warning

Before use please read carefully and use in accordance with these safety wiring instructions.

Before commencing any electrical work ensure the supply is **switched off at the mains**. Either by switching off the consumer unit or by removing the appropriate fuse.

Wiring should be in accordance with the latest edition of the IEE regulations (BS 7671).

### Wire Identification – Twin & Earth Cable

**EARTH** = Green/Yellow Sleeving

**NEUTRAL** = Black (pre Apr 04) / Blue (after Apr 04)

**LIVE** = Red (pre Apr 04) / Brown (after Apr 04)



**Technical Helpline: 0845 194 7584**

**If in doubt consult a competent electrician.**

The ends of the individual conductors should have the insulation removed by approx. 12mm. Any bare earth conductors should be sleeved to within 12mm of the ends. (These details are for general information only and conductor lengths may need to be trimmed in certain installations).

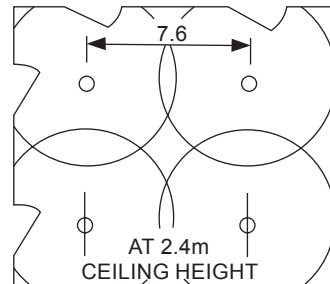
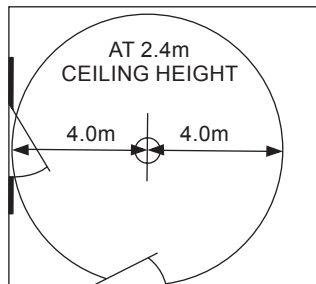
### Introduction

Internal, ceiling mounted infra red detector, activated by small movements of heat. Switching capacity 1000W MAX. Timer adjustable from 20 secs to 10 mins. (Reactivated by the last detected movement.) Range 8 metres diameter 360 degree field of view when ceiling mounted at 2.4metres. Light sensor adjustable to inhibit daylight operation if required.

Override switching facility to enable permanent ON operation of light.

### Planning Your Installation

MOUNTING HEIGHT ABOVE FLOOR	SENSING DIAMETER
6.0m	15.2m
5.4m	14.0m
4.8m	12.6m
4.2m	11.6m
3.6m	10.4m
3.0m	9.2m
2.7m	8.6m
2.4m	8.0m



### Installation

**IMPORTANT: - ISOLATE MAINS SUPPLY BEFORE WIRING OR MAKING ANY INTERNAL ADJUSTMENTS.**

**IF IN DOUBT CONSULT A QUALIFIED ELECTRICIAN.**

**ALL WIRING MUST COMPLY WITH THE LATEST WIRING REGULATIONS.**

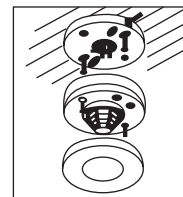
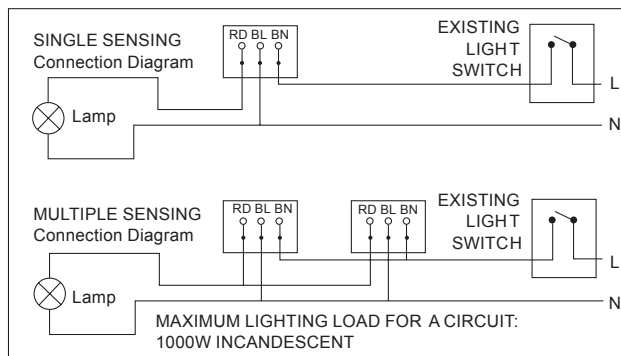
It is recommended the supply to the detector and light fitting is via a fused double pole switched spur fitted with the appropriate rated fuse depending on switching load.

### Procedure

1. Mount backplate onto ceiling with screws provided, bearing in mind height and diameter of desired field of view.
2. Twist and remove front plate from body.
3. Bring wires through centre of backplate and wire to terminal block on body. (See wiring diagram below).
4. Screw body to backplate on ceiling with screws provided.
5. Replace front plate.

NOTE: The detector is double insulated and therefore does not require earthing.

### Wiring:



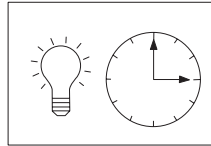
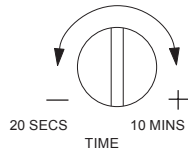
# Guardian 6000

## Installation Information

### Adjustments

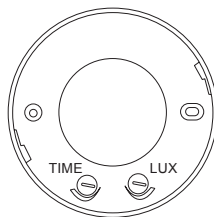
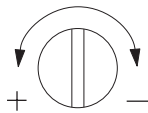
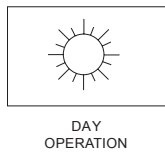
1. TIME adjuster:

Adjusts time lamp is lit.



2. LUX adjuster:

Adjusts level of light operation.



### Operation

#### Auto Mode

Switch on supply and the detector will commence a 30 secs warm up period, during which the lamp may turn on and off. After 30 secs the detector will resume AUTO MODE.

#### Test Mode

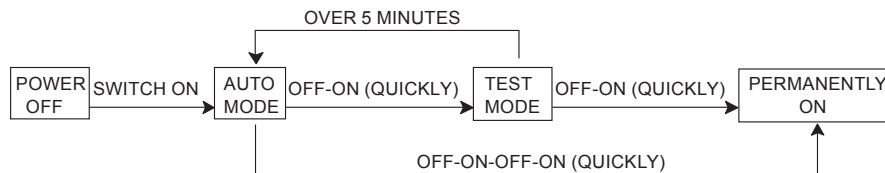
The 5 mins test mode can operate day or night regardless of LUX setting. To change from AUTO MODE to TEST MODE switch supply OFF-ON quickly. Activate detector and lamp will light for 30 secs. Subsequent activations over the 5 mins period lamp will light for 4 secs.

After 5 mins test sequence the detector will resume AUTO MODE. To return to AUTO MODE during this period switch supply OFF-ON twice quickly.

#### Manual Override

To change from AUTO MODE to MANUAL OVERRIDE switch supply OFF-ON twice quickly, lamp will light until supply is switched off.

#### Sequence Diagram



### Specification

1. SUPPLY 220/240V ac.
2. TIMER 20 secs to 10 mins.
3. LUX night and day operation..
4. RANGE 8M diameter 360 degree field of view at 2.4m high..
5. MANUAL OVERRIDE for normal light operation.
6. SWITCHING CAPACITY 1000W MAX.

### Fault Finding

#### Nothing Happens

1. Check supply to unit.

#### Detector Clicks But Does Not Operate

1. Check lamp not broken.

#### Lights Go On And Off Quickly

1. Ensure light is not being reflected back into sensor. Check for white or reflective surfaces in protection pattern.
2. Note the detector is more sensitive in cold weather.

#### Lights Stay On

1. Check unit has not gone into Manual Override mode.
2. Adjust time to minimum.
3. Ensure nothing in field of view activating detector.

4. Ensure unit is firmly fixed to a solid object with no moving branches etc. in field of view.
5. Ensure detector is not being activated by stray moving heat sources such as heating outlets cars etc.

#### Lights Switch On During Storms

Adverse weather conditions and temperature changes can result in unwanted activations. This can be minimised by mounting in a protected location and adjusting sensitivity control. Switch power supply off during storms.

#### Maintenance And Repair

1. Do not attempt to repair as this could invalidate warranty or result in personal injury.
2. Clean detector lens and outside casing with damp cloth.