



Technical Data

Guardian 2000

Brief product description:

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

Combined Halogen Floodlight And Passive Infra-Red Detector.

Available In Black Or White

Features:

- Detector fully adjustable vertically and horizontally
- 1000 Watt Tungsten halogen switching capacity
- Adjustable lux level
- Adjustable timer from 20 seconds to 10 minutes (reactivated by the last detected movement)
- 12 metre detection range with a 200° angle of detection
- Over-ride facility enables permanent on operation of controlled lighting
- Prewired and ready to install
- Lamp not included

Product Images



NGD600(Black)
NGD60W(White)

Technical Specifications

Power	220-240V 50Hz
Operating Temperature	-20 to 40 °C
Max. Load	500W incandescent
Detection Range	12M / 110Degree
Time Adjustment	10 secs to 10 mins
Lux Level (Min to Max)	5 LUX to 2000 LUX
IP Rating	IP44
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
NGD600	Guardian 2000 (Black)	Printed Box		Plain Outer	1		6			
NGD60W	Guardian 2000 (White)	Printed Box		Plain Outer	1		6			

Guardian 2000

Weights & Dimensions

Cat No.	Description	Dimension (W x L x H) cm			Weight (g)			CMB (m ³)
		Product	Inner Box	Outer Box	Each	Inner Box	Outer Box	Outer Box
NGD600	Guardian 2000 (Black)	19 x 27 x 15		28.5 x 58.5 x 32.5	1300		8300	2
NGD60W	Guardian 2000 (White)	19 x 27 x 15		28.5 x 58.5 x 32.5	1300		8700	2

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

External passive infrared detector fully adjustable vertically and horizontally. 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 12M with 110 degree field of view.

Override switching facility to enable permanent ON operation of light.

Light sensor adjustable to inhibit operation during daylight if required.

Colour black or white.

Planning Your Installation

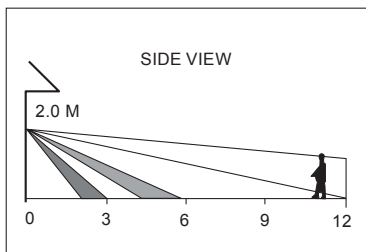
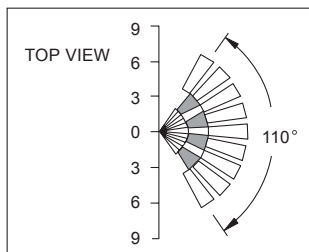
First decide on the location bearing in mind that the detector will perform best if mounted between 2 and 2.5 metres from the ground. It is also important to remember not to position the detector where it will reach areas such as footpaths and roads as this may result in unwanted activations from passers by.

The detector responds better when a person moves across the field of vision as opposed to straight towards it. Mounting the detector towards the side of a building with the head angled at 45 degrees will make the detector respond better than mounting in the centre looking straight ahead.

The detector cannot see through solid objects including glass so care should be taken that field of view is not obstructed by trees bushes parked cars etc.

IMPORTANT

The detector must be mounted well clear of central heating outlets or any large reflective surfaces as this may result in unwanted activations.



Installation

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

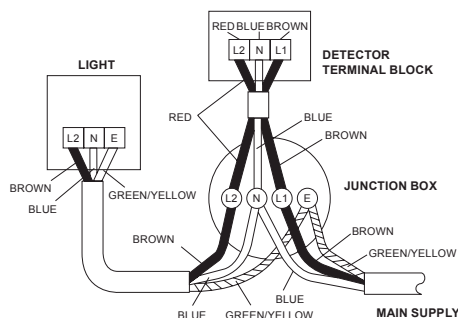
IF IN DOUBT CONSULT A QUALIFIED ELECTRICIAN.

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. Prise detector top and bottom apart with a small screwdriver.
2. Mount top bracket on wall bearing in mind previous installation instruction.
3. Fit grommet supplied in cable entry hole in body.
4. Pass cable (1.5mm 3 core) through grommet.
5. Wire as follows:
NOTE: The detector is double insulated and therefore does not require earthing.
Use RED wire as the switched live return from the detector.
6. Fit body to bracket on wall with screws provided and ensure watertight.
7. Angle detector to view desired area and secure.

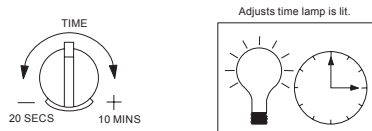


NOTE: To wire the unit into an existing wiring system it is recommended the work be carried out by a qualified electrician.

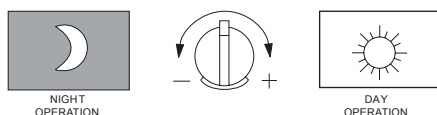
Installation Information

Adjustments

1. TIME adjuster:



2. LUX adjuster: Adjusts level of light operation.



Operation

Test Mode

In Test Mode the unit will activate day or night regardless of ambient light levels. Activations during the test mode will activate the light for 5 seconds. The unit will progress to Auto Mode automatically after 5 minutes.

Auto Mode

In Auto Mode the unit will activate according to the settings selected on the Lux & Time adjusters.

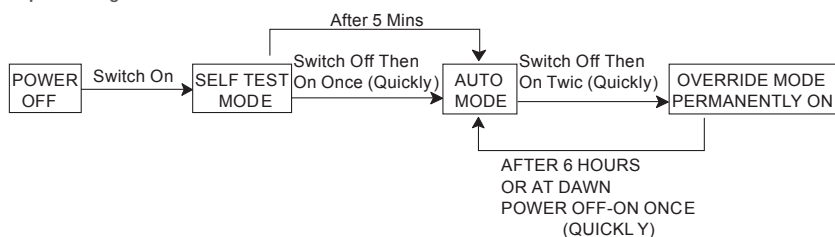
To allow the unit to work only at night turn LUX to "-" or to allow unit to operate both day & night turn to "+". For unit to operate at dusk/dawn experiment to find best midway setting. The amount of time the unit stays on after activation can be adjusted from between 20 Seconds and 10 minutes using the TIME adjuster.

Override Mode

In Override Mode the light will remain permanently ON until:

- The unit is switched Off and ON quickly.
- The unit has been on for more than 6 hours.
- Dawn arrives. (Light level over or about 300 LUX) When LUX control set to "-" position.

Sequence Diagram



Specification

- SUPPLY 240V ac.
- TIMER 20secs to 10mins.
- LUX night and day adjustments.
- SWITCHING CAPACITY 1000W MAX total.
- RANGE 12M with 110 degree field of view.
- OVERRIDE for normal light operation.
- WEATHER RESISTANT IP44, -20 C to 40 C.

Fault Finding

Nothing Happens

- Check supply to unit.

Detector Clicks But Does Not Operate

- Check lamp not broken.
- Check lamp tight in lampholders.

Lights Go On And Off Quickly

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

Lights Stay On

- Check unit has not gone into Manual Override mode.
- Adjust time to minimum.
- Ensure nothing in field of view activating detector.
- Ensure unit is firmly fixed to a solid object with no moving branches etc. in field of view.
- 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

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