

3000W DUSK TO DAWN LIGHT CONTROLLER

Cat No. NSLDD1000 - White



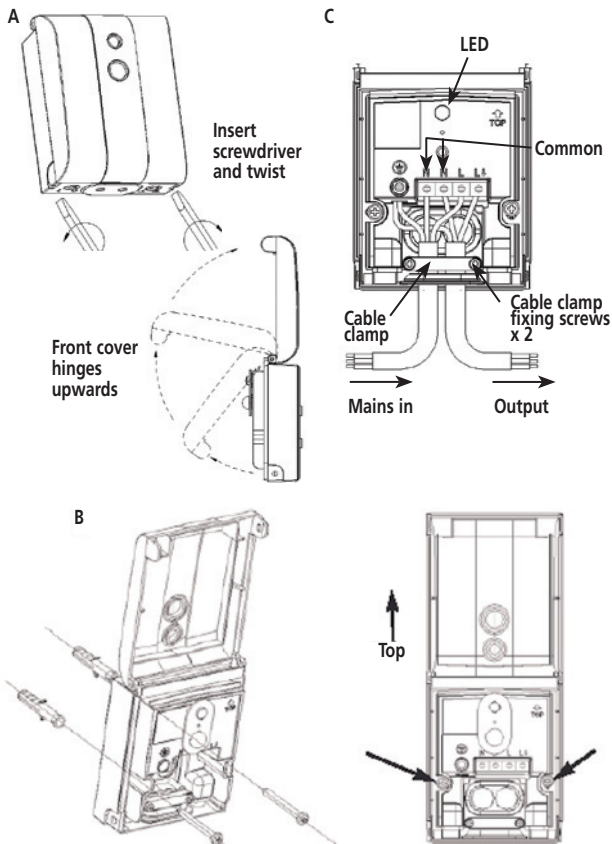
Installation & Operating
Instructions



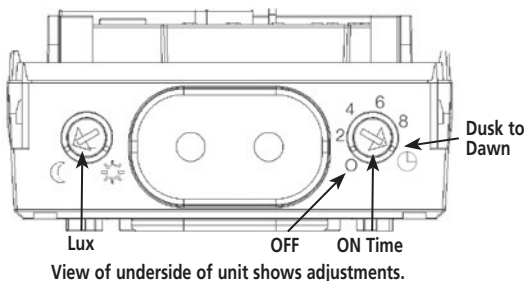
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Introduction

The NSLDD1000 features an integral daylight sensing photocell which will automatically switch connected lights on at dusk and off at dawn or at 2, 4, 6, 8 hours after dusk. It incorporates an adjustable operation delay to prevent mis-operation due to e.g. car headlamps.



D



Parts included

- Photocell (Dusk/Dawn) Switch.
- Instruction manual. Please keep safe for future reference.
- Accessory Pack.

Tools and parts needed

- 3 core cable.
- Electric/hand-held drill & bits.
- Terminal or Electricians screwdriver.
- Wire cutters.

Unit can be used indoors or outdoors, but is specifically designed for outdoor use.

Do not attempt to install during wet weather, if you are suffering from nausea or dizzy spells or if you are taking any medication with similar side effects.

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If in any doubt, consult a qualified electrician.

Installation

The unit is suitable for connection to a 230V ac 50Hz electricity supply. It is suggested that 3-core round flexible cable of 1sq.mm gauge is used. An internal switch should be installed to switch the power to the unit ON & OFF. This allows the sensor to be easily switched off when not required or for maintenance purposes.

IMPORTANT

Switch off the electricity at the fuse box by removing the relevant fuse or switching off the circuit breaker before proceeding with the installation.

Open the unit by gently prying the "ears" on each side of the unit. See diagram A. This can be done without a tool, but if you prefer use a flat blade screwdriver, but be careful not to damage the clips. They should release easily. The front cover is hinged at the top, the front cover will swing open upwards.

Using the unit as a template, drill the holes. Insert the wall plugs into the holes. See diagram B.

It is recommended that the grommet is pierced with a screwdriver to ensure a better seal.

Fix the unit to its mounting surface. Do not overtighten the mounting screws as this could damage the unit. If using a power screwdriver, use the lowest torque setting.

Remove the cable clamp. See diagram C

Pierce and pass the cables through the grommet.

We recommend you use a screwdriver to pierce the grommet as this will give a better seal.

Connection

Connect the incoming mains cable to the terminal block on the unit as follows (see connection diagram):

NEUTRAL (Blue) N

EARTH (Green/Yellow) 

LIVE (Brown) L

Connect the lighting load cable to the terminal block.

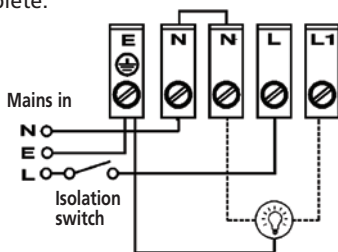
NEUTRAL (Blue) N

EARTH (Green/Yellow) 

LIVE (Brown) L1

Please note the the N terminals are common.
Ensure that the connections are secure.
Re-attach the cable clamp and secure.
Close the front cover.
Installation is complete.

Connection Diagram



Testing

Set the adjustment knobs as follows:-

See diagram D.

Dusk setting, fully anti-clockwise (daylight setting)

The Dusk setting determines at which light level the NSLD1000 will turn its connected load "ON"

Turning this setting fully anti-clockwise allows you to test the circuit during daylight.

Connect the unit to the mains and switch power on.

After a short delay, the unit will switch ON. This is indicated by the red LED see diagram C. Any attached lights will also illuminate.

Setting up for automatic operation

The TIME control determines how long the lamp remains illuminated after activation. There are 5 designated "time on" settings O (or off), 2, 4, 6, 8 hours and dusk/dawn.

The DUSK (LUX) control determines the level of darkness required for the unit to start operating.

The setting is best achieved by the procedure below:

Set the Dusk control knob fully anti-clockwise and the Time control to the required number of hours or dusk/dawn (do **not** leave in the O (off, fully anti-clockwise) position).

When the ambient light level reaches the level of darkness at which you wish the lamps to become operative (ie. At dusk), SLOWLY (a small step at a time) rotate the control in a clockwise direction until a point is reached where the lamp illuminates. Leave the control set at this point.

At this position, the unit should become operative at approximately the same level of darkness each evening. Observe the operation of the unit. If the unit is starting to operate too early (ie. when it is quite light), adjust the control slightly anti-clockwise. If the unit starts to operate too late (ie. only when it is very dark), adjust the control slightly clockwise.

Continue to adjust until the unit operates as desired.

Manual Override Mode

The light can be switched on for longer time periods by use of the **Manual Override Mode**. This can be activated at night by using the internal wall switch or circuit breaker supplying the unit.

Please note:- The unit **CANNOT** be operated in Manual Override Mode during daylight hours. If you want to test this function when installing the unit, this test must be carried out after dusk when the unit has become operational.

To activate Manual Override Mode:-

Switch the internal wall switch/circuit breaker once (off/on) within 1 second.

The unit will now illuminate continuously until dawn or until it is switched back into Auto Mode.

To de-activate Manual Override Mode (ie. switch the unit back into Auto Mode):-

Switch the internal wall switch/circuit breaker once (off/on) within one second. The unit will return to its Auto mode and will operate as set up initially.

Technical specifications

Power Supply:	230 V AC ~ 50Hz
Maximum Switching capacity:	Filament/incandescent 3000W Fluorescent or Low energy up to 500W Not suitable for discharge lighting e.g. SON or Metal Halide
Operation:	Dusk - Dawn and Dusk to 2/4/6/8 hours OFF, (adjustable Dusk sensing)
Environmental Protection:	IP55 (suitable for outdoor use)
Conforms to Directives:	73/23/EEC and 89/336/EEC

Troubleshooting guide

Problem

- **The sensor will not operate at night.**

Solution

The level of ambient light in the area may be too bright to allow operation at the current DUSK setting. During the hours of darkness first turn the Time Delay knob to minimum then adjust the DUSK control slowly clockwise until the lamp illuminates. Refer to previous section for more details.

- **Unit activates during the daytime.**

Adjust the setting anti-clockwise to lower the level of ambient light required for activation.

3 Year Guarantee

In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge.

For the second and third years or any difficulty in the first year telephone the helpline on **020 8450 0515**.

For assistance with the product please contact:-

HELPLINE

020-8450-0515

or email helpline@timeguard.com



For a product brochure please contact:

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