1000W DUSK TO DAWN LIGHT CONTROLLER

Cat No. SLDD1000

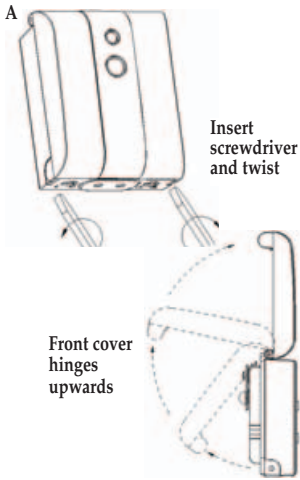
TIMEGUARD LIMITED

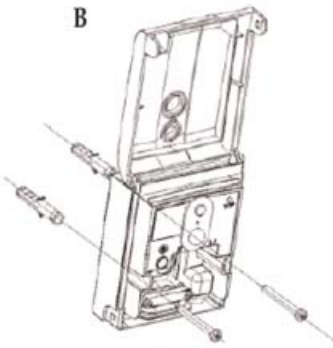
INSTALLATION & OPERATING INSTRUCTIONS

Introduction

The SLDD1000 features an integral daylight sensing photocell which will automatically switch connected lights on at dusk and off at dawn.

It incorporates an adjustable operation delay to prevent mis-operation due to e.g. car headlamps.





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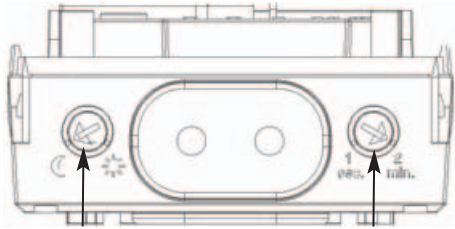

View on underside of unit shows adjustments.

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 240 V 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.

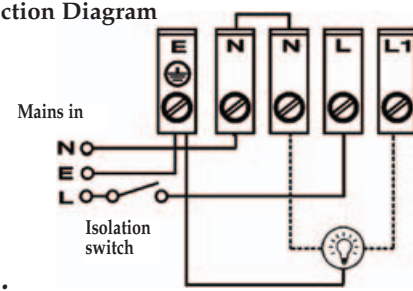
Ensure that the connections are secure.

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)

Time Delay setting fully anti-clockwise (minimum 2 sec)

The Dusk setting determines at which light level the switch 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 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 and Time Delay control knob fully anti-clockwise. Wait until darkness falls.

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.

The Time Delay setting allows the user to determine at which time after the required darkness level is reached the lights will illuminate. This is beneficial in areas where intermittent light/darkness exposure is possible ie:- car headlights, or shadows.

Turning the adjustment knob fully anticlockwise will illuminate the lamps 2 seconds after the lower lux level is reached.

Turning the adjustment knob fully clockwise will illuminate the lamps 5 minutes after the lower lux level is reached. This will eliminate possible on/off switching due to intermittent light/darkness exposure.

Technical specifications

Power Supply:	230 V AC ~ 50Hz
Maximum Switching capacity:	Filament/incandescent 1000W Fluorescent 250W (iron ballast only), **not suitable for electronic high frequency ballast units including low energy/compact fluorescent lamps)** **Not suitable for discharge lighting**
Operation:	Dusk - Dawn (adjustable daylight sensing)
Environmental Protection:	IP44 (suitable for outdoor use)
Conforms to Directives:	73/23/EEC and 89/336/EEC

Troubleshooting guide

Problem	**Solution**
• **The sensor will not operate at night.**	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.**

HELPLINE
020-8450-0515

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