

# Light Symphony

## 4-channel Wireless Receivers

### 4-Channel Mini Controller



#### Features

- IP66 tough ABS enclosure
- Compatible with all lighting types
- Switched outputs rated 700W per channel
- Earth bonding metal chassis
- Operates wirelessly requires only a mains supply
- Rugged, separately fused outputs
- Fast, *Lid-On* programming
- Pulsed output option (for gate-trigger etc)

Part No. LS30540MINI

### Description

The Lighting Control Module provides 4 wirelessly controllable channels each rated at 700W and suitable for all load types, including LEDs. It provides flexible control of non-dimmable lighting (or pumps) and is quickly configurable as a simple switch, group (zone) or scene controller, with 29 memories and a master on/off.

The separately fused outputs are fully protected against over current and over temperature. Large 10mm<sup>2</sup> input cable terminations, standard (20mm) gland cut-outs and an earth bonded gland-chassis simplify installation.

Lid-on programming speeds commissioning and reduces the risk of water ingress during installation.

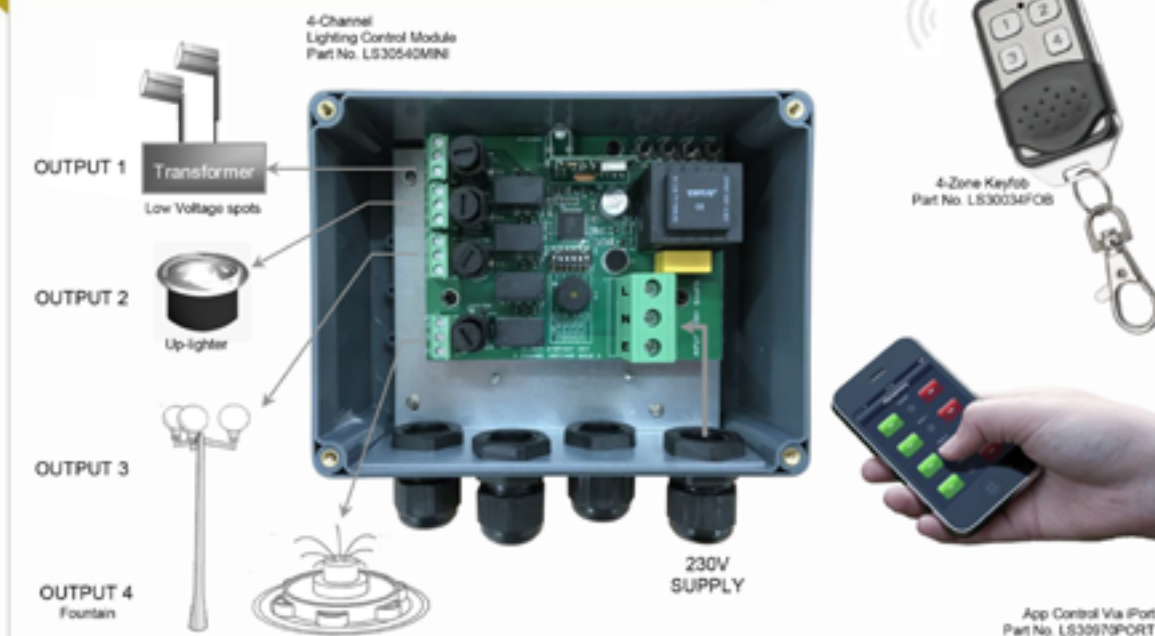
Internal DIP switches allow outputs to be configured in 3 second PULSE mode, useful for triggering electric gates etc. Note all outputs are 230V so an isolation relay is usually required between the controller and gate.

### Specification

Range	-	1000 metre wireless range line-of-site
Enclosure	-	IP66, UV stable, ABS with non-penetrating mounts translucent lid & neoprene o-ring. Colour RAL7011
RF	-	434.075MHz Narrow Band FM
Coding	-	Security channels 1–32
Power	-	Supply: 230VAC +/-10% 50Hz Standby <1W. Output 1–4 Relay rated 700W, zero-volt switching
Size	-	185 x 225 x 85mm
CE Compliance	-	EN 50081 – 1, To EN 50082 – 1

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### Application Example



## How to use it

The Lighting Control Module (LCM) 'hears' wireless commands from any of Light Symphony's 1000metre controllers, such as the remote control or key-fob pictured above. The Garden On/Off button will switch all outputs together, providing a convenient master control. Outputs can also be separately assigned to 'Areas' (1-29), to provide individual or zoned control. Zones can be set using the 4 internal push buttons or by tapping on the lid.

Outputs are rated 700W each and are switching only (non-dimming).

Internal DIP switches enable 'PULSE' output mode, which is useful for controlling electric gates etc.

Limitless controllers may be used together to create larger, flexible lighting zones or scenes.

## Accessories

### Mounting Spike Kit

A pair of adjustable-length, galvanised, steel spikes can be fitted to the Lighting Control Module in place of the supplied wall fixings to provide a convenient ground mounting method.



Part No. LS30010SPK

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### CONFIGURATION SWITCHES

#### SW1 SIGNAL STRENGTH INDICATOR

Causes the power LED to blink when a remote control key is pressed to indicate signal-strength. A slow blink shows a weak signal, a fast blink or no flashing indicates a strong signal.

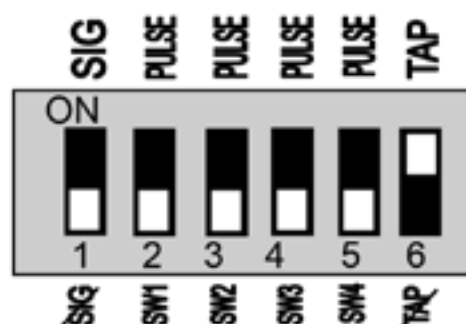
(SW1 can be used to keep the power LED off when in standby)

#### SW2 -5 PULSED OUTPUT

Enables 3sec pulsed output on outputs 1 to 4 respectively when on (up)

#### SW6 TAP ENABLE

The 'double-tap' sensor used for lid-on programming can be disabled by turning SW6 off. The factory setting is ON.



### MAINTENANCE

To prevent premature failure of the unit please take note of the following recommendations;

1. Never leave a module outdoors unless the lid is properly secured and the rubber gasket installed.
2. Ensure the 4 lid-screws are properly tightened after installation.
3. A smear of (**Silicon**) grease around the rubber gasket will protect it and help guarantee a long reliable life. Use **ONLY** silicon grease!
4. Before fitting or replacing a lamp, **ISOLATE THE POWER** (POWER MUST BE SWITCHED OFF AT THE SUPPLY – DO NOT USE THE REMOTE CONTROL).

### SYSTEM CODE

This unit adopts a 'System Code' from the remote or iPort during programming, which prevents interference from a neighbouring system. The power LED blinks when the unit is powered on, count the blinks to confirm which code's been stored.

#### Environmental Information for Customers in the European Union



European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

#### NOTE;

Rights reserved to change the specification of this product without prior notice.

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Mini 4-Channel 'Lighting Controller'

### SPECIFICATIONS

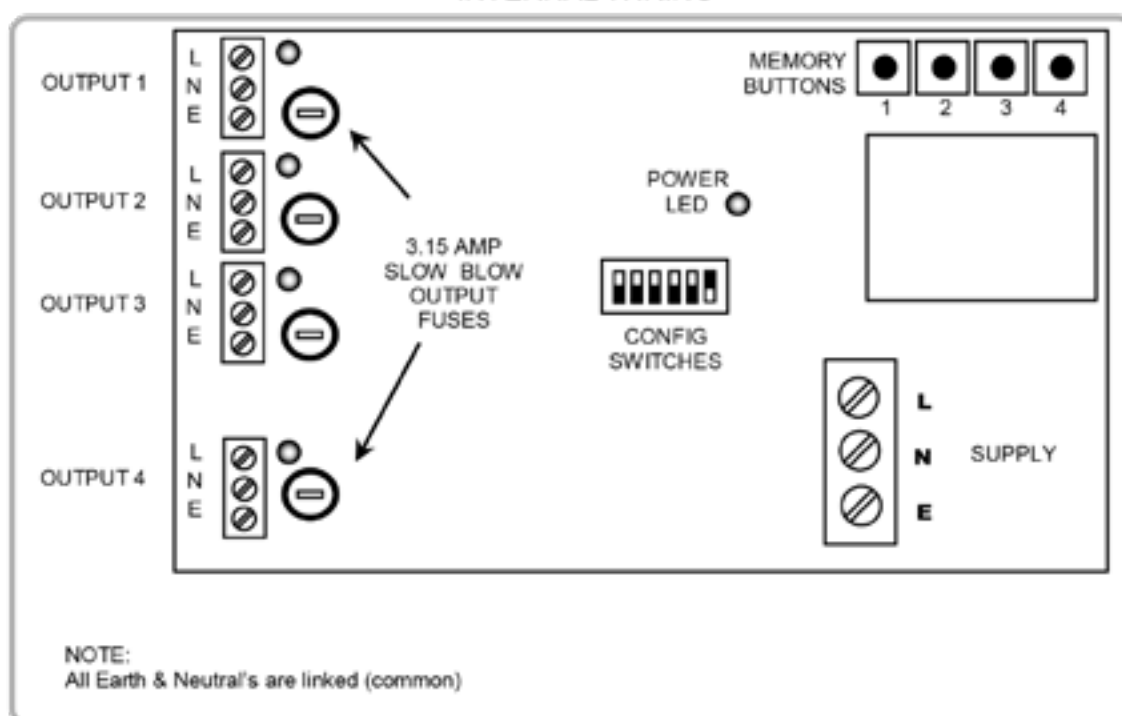
Voltage	220-240V AC / 50Hz
Output Rating	700W each channel
Minimum Load	0W (nil)
Protection	4 x 3.15Amp Slow Blow fuses
Weather Resistance	IP66
Physical	185 x 122 x 78mm / 0.8Kg
Ambient Temp.	-10°C to +40°C



### INTRODUCTION

The 4-channel lighting controller is for switching four separate lighting or pump circuits. It may be used with all load types including mains-halogen, magnetic low-voltage transformers, most electronic transformers, (compact) Fluorescent, Metal-Halide, Sodium and LED. Outputs can also be used to trigger electric gates, by enabling the 'pulsed' output mode. The unit is designed for indoor or outdoor installation but take note of the safety instructions. Ensure the config switches are set correctly before use.

### INTERNAL WIRING



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### ELECTRICAL INSTALLATION

The unit must be installed by a qualified electrician working to national Electrical Regulations.

**Ensure all cables enter the enclosure from below or have a 'drip-loop'.**

**NOTE:** The Earth screw in the unit bonds all the metal parts to ground including the Steel Wire Armouring (via the metal chassis).

### AREA (ZONE) MEMORY

Light Symphony allows 1-29 lighting 'Areas' (zones) to be created. Lighting outputs can be included any number of 'Areas'. See example below;

#### **EXAMPLE**

AREA #	OUTPUT 1 e.g. driveway	OUTPUT 2 e.g. gate lights	OUTPUT 3 e.g. front garden	OUTPUT 4 e.g. fountain
ALL	✓	✓	✓	✓
1	✓			
2		✓		
3			✓	
4				✓
5	✓	✓	✓	
6-29	...	...	...	...

In this example, Area #1 controls just the drive-way lighting (Output 1) but Area #5 has also been used to control the driveway, gate lights and front garden as a group, which could then be triggered by a timer or PIR etc.

### PROGRAMMING & SET-UP

1. The power LED will light when the supply is on (unless config sw-1 is on)
2. To test the unit is working, press "Garden On/Off" on the remote control or App. All 4 outputs will switch On/Off.
3. To program an Area (zone);
  - a) Use the memory-buttons to switch on the output(s) required.  
After pressing a memory-button, the memory will be 'open' for 15secs and the power LED blinks to indicate this.
  - b) Press an Area-On button (1-29) on the remote control or App to store the currently ON outputs in that memory. A 'beep' confirms the Area/Zone has been stored and the memory has closed.

**NOTE:** When storing, ensure only one output is on at a time, unless creating an output 'group' e.g. area #5 in the above table.

To close the memory without making any changes, press "Garden Off" key on the App / remote control or wait 15 seconds.

4. To *remove* Outputs from an Area memory set them OFF when storing that Area.

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### LID-ON PROGRAMMING

It is also possible to program Areas with the lid on; Double-tapping the lid switches Output-1 ON and opens the memory. Pressing any Area key on the remote control or App will store this setting. Each double-tap will cycle through a short sequence; output 1, then output 2, output 3, output 4, all outputs ON and all outputs OFF. For more complex combinations it is necessary to program with the lid off.

NOTE: The double-tap programming feature is automatically disabled after the power has been on for 2 hours. To re-enable it, cycle the power off and back on.

### INSTRUCTIONS FOR USE

The unit will respond to commands received from the Light Symphony remote control or App (via the iPort). Initially, all outputs will respond to “Garden On/Off” only. Outputs can also be controlled using any number of Areas (zone) memories, as shown opposite.

### DIMMING

This unit has no dimming function but can coexist with modules in a larger Light Symphony installation with dimmable units. Dimming commands will simply be ignored.

### ERASE MEMORY

To erase all memory and restore the unit to the factory settings press and hold memory-button #1 for 10 seconds, the System Code will also be reset to #1. To erase individual Areas only, see section 4 of Area (Zone) set-up on the opposite page.

### GATE CONTROL

Config switches 2 – 5 enable the ‘PULSE’ output mode for channels 1-4 respectively. With its config switch ON (up) the output will switch on momentarily for 3 seconds when an on command is received. Off commands are ignored. Outputs are 230VAC so an external relay is required to create a volt-free contact.

### FOUNTAIN / PUMP CONTROL

It may be desirable to exclude pumps from the global ‘Garden On/Off’ buttons on the remote, so they keep running when the lighting is switched off. Any output(s) can be ‘removed’ from the main “GARDEN ON/OFF” area using the remote control programming tool (not the App). Using the Memory Buttons, switch on ALL outputs *except* the pump output and press the DIM UP and DOWN keys together to store the setting (a beep will be heard). The pump circuit must then be programmed into its own ‘Area’ as it will ignore global ‘Garden On/Off’ commands.