Solray Select LED Batten Luminaire Installation

This Manual only applies to the products listed:

EL2SR2B*, EL4SR2B; EL5SR2B, EL5HSR2B, EL6SR2B* all versions inc:

"F" Self-test Emergency, "M" Microwave, "D" Dali*,   *not selectable

Version 2.0

Introduction:
Thank you for choosing the second generation Solray Select batten fitting LED luminaire T5/T8/T10 or T12 twin tube equivalent. We recommend that you read this manual carefully before installation or usage of your product. Please ensure you completely understand the instructions to ensure normal working of your LED luminaire.

Important Information:
It is recommended that luminaires are installed and fitted by a fully qualified electrician in accordance with the relevant standards, and that the installation complies with current IEE wiring regulations. This luminaire is suitable for indoor use only.

Accessories supplied:

1 x LED Solray fixture, 2 x surface mount screws and rawl plugs, 1x M20 cable gland, 1 x instruction manual.
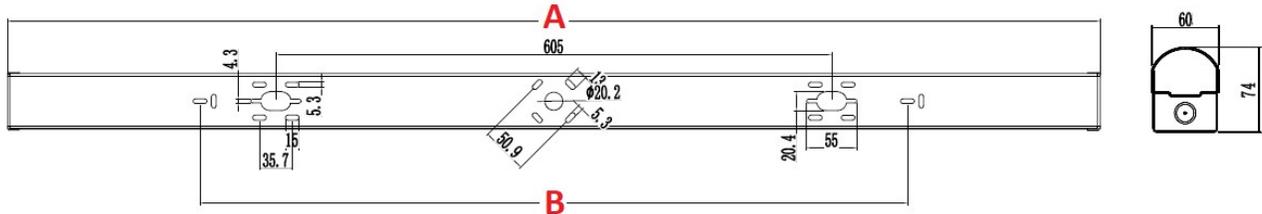
Spec /Dimensions:

FIG 1:

FIG 2:

	EL2SR2B	EL4SR2B	EL5SR2B	EL5HSR2B	EL6SR2B
Input Voltage	200 – 290V (50/60Hz) (0.98 Power Factor) Flicker free operation				
Colour Temp	4000K				
System Power / Lumens	18W - 2160LM	20W - 3200LM	28W - 4500LM	34W - 5800LM	64W - 9700LM
		25W - 3900LM	35W - 5500LM	43W - 7200LM	
		30W - 4600LM	42W - 6500LM	52W - 8500LM	
		34W - 5200LM	48W - 7200LM	58W - 9300LM	
CRI	>85				
Beam Angle	130°x110°				
IP Rating	IP20				
IK Rating	IK08				
Rated Life	50,000hrs				
Working Temperature	-20°C to 35°C (<50% humidity, not condensing) Emergency Versions: -5°C to 30°C (<50% humidity, not condensing)				
Body Colour	RAL9003 (White)				
Body Materials	Aluminium / Polycarbonate				
Dimensions	(See Fig 1 and below)				
A	600mm	1200mm	1500mm		1800mm
B	370mm	800mm	830mm		830mm
Net Weight	0.8kg	1.3kg	1.5kg		1.7kg

Note: Add 0.2KG for Emergency Kit and 0.02kg for Microwave sensor, Light sources within the luminaires are energy rated class C

Self-Test Emergency versions (suffix "F"):
The emergency products are fitted with 2W maintained self-test emergency kit giving a lumen output of 300LM for over 3 hours. The battery fitted is a 1.5Ah LiFePO4 Lithium.

Self-Test Functions: Function Test: Carried out for 10 seconds every 30 calendar days
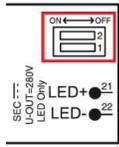
Duration Test: Will automatically make a full duration test every 180 calendar days to check the capacity of the batteries.

Note: If the mains supply fails during self-test period the module will terminate

Selecting the power output:

Note: The luminaire is always pre-set to the highest output. To change the brightness first, isolate the power. Locate the DIP switches on the power supply and adjust using an insulated tool as follows:

Driver Switch

Output settings:

EL4SR2B(E/M) Driver Outputs				
Power	Lumens	mA	Pin 1	Pin 2
22W	2600LM	200	OFF	OFF
27W	3150LM	250	OFF	ON
34W	3850LM	300	ON	OFF
40W	4410LM	350	ON	ON
Note device is pre-set to highest output (350mA)				

EL5SR2B(E/M) Driver Outputs				
Power	Lumens	mA	Pin 1	Pin 2
28W	4500LM	200	OFF	OFF
35W	5500LM	250	OFF	ON
42W	6500LM	300	ON	OFF
48W	7200LM	350	ON	ON
Note device is pre-set to highest output (350mA)				

EL5HSR2B(E/M) Driver Outputs				
Power	Lumens	mA	Pin 1	Pin 2
34W	5800LM	200	OFF	OFF
43W	7200LM	250	OFF	ON
52W	8500LM	300	ON	OFF
58W	9300LM	350	ON	ON
Note device is pre-set to highest output (350mA)				

LED Indicator:

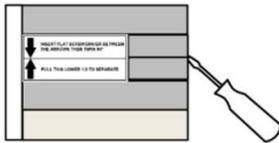|	Color	LED indication	Status	Comment
	Green	Slow flashing green (3 sec on, 1 sec off)	Charging Mode	AC mode
	Green	Permanent green	Fully Charged	AC mode
	Green	Fast flashing green (0.1 sec on, 0.1 sec off)	Function test underway	
	Green	Slow flashing green (1 sec on, 1 sec off)	Duration test underway	
	Red	Permanent red	Load failure	Open circuit/ Short circuit Led failure (emergency mode)
	Red	Slow flashing red (1 sec on, 1 sec off)	Battery failure	Battery failed the duration test or function test / No battery
		Green and red off	DC mode	Battery operation (emergency mode)

Full colour version of this installation manual is available at www.novah.co.uk

Microwave (Suffix "M"): See MH10 remote manual for details**.**

Installation:
1. Isolate supply voltage before working with electrics.
2. Carefully remove all packaging. Inspect the interior and exterior of the fitting to ensure no defects if there are please notify your retailer.*
3. To open the fitting, insert a large flathead screwdriver between the rear and front of the fitting as shown in Fig.3 turn 90° and pull the two parts to separate.
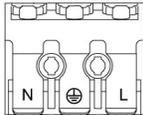
FIG 3:

4. Disconnect the safety cords and set aside the front luminaire until later.
5. Find a suitable location and using the supplied fitting (or appropriate fixings) attach to the wall or ceiling. (Note the luminaire must not be installed close to a heat source).
6. Feed the incoming power cables into the backplate either by the M20 cable entry at the side or rear and connect to the terminal block as follows:
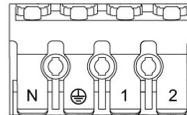
Standard version:
N = Neutral
⏚ = Earth
1 = Switched Live

Emergency Version:
N = Neutral
⏚ = Earth
1 = Switched Live
2 = Permanent live

7. Once connected securely attach the front Luminaire securing the safety cables first then connecting the orange power plug together.
8. Connect the front luminaire to the back housing securely. Push the two parts carefully together until they click.
   IMPORTANT NOTE: Ensure that the triangle safety look, orange connector and/or any cable(s) do not force down the piano key terminal block when closing.
9. Turn on your power. Note that LED generally have a higher inrush current and may trip your MCB or RCD breaker. In which case a change of breaker type may be required (EG: B type to C type, C type to D type).

   * Note for Microwave versions, they are installed but secured loose at the end for transportation purposes. You must use the provided nut to secure the sensor on the thread ensuring the clear part of the sensor is pointed down.

Exclusions to Warranty:
Please visit our website terms and conditions for exclusions to warranty.

Disposal of Electronic Equipment WEEE Directive 2002/96/EC
This product falls within the scope of the Waste Electrical & Electronic Equipment Directive (WEEE), which means the product should not be disposed of as normal household waste. Ensure that this luminaire and lamp is disposed of in accordance with the WEEE Directive. Contact a local Council Waste Depot. Local Amenity Site, or the Environment Agency for further information. RoHS – All components and materials used in this product are RoHS 2002/95/EC compliant. Novah WEEE number: WEE/GA479TY

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