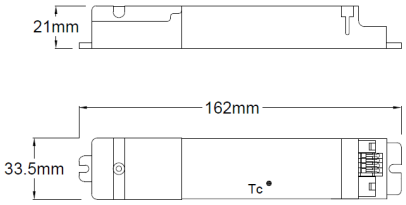
Installation & Wiring Instructions
S/ADM/1 Standalone Emergency LED

PLEASE READ THESE INSTRUCTIONS BEFORE COMMENCING INSTALLATION & LEAVE WITH END USER

Description:

The S/ADM/1 is a standalone 3 hour DALI-2 self-test emergency driver with a choice of dedicated LED heads which are suitable for open areas or escape routes. The LED is driven at 700mA which provides up to 288 lumen in emergency.
The batteries used with this kit are lithium iron phosphate (LiFePO4) which not only last double the life of traditional emergency lighting batteries, but consume far less power.
If not connected to a DALI system, this product will revert to standalone self-test and carry out its commissioning and testing regime in accordance with the British Standards.
The battery is fitted with a PCM to protect the supply voltage against reverse polarity.



Fixing Centres 155mm

Specification:

Input Voltage	230-240 Volts AC 50/60 Hz
Power (Non-Maintained Charged) *	0.3W 8mA - λ = 0.15
Power (Maintained Charging) *	5.5W 30.6mA - λ = 0.75
Maximum Module Tc	70°C
Minimum Battery Tc	0°C
Maximum Battery Tc	55°C
Mains Input Terminal	0.5mm - 1.5mm
Battery Fuse	Internal
Battery Discharge Current	900mA
Discharge Voltage Limit	2.5V
Ingress Protection	IP20
Battery Pack	3.2V 3.8Ah LiFePO4
Charge Current	225mA Nominal
Recharge Period	24-Hours
Module Size (L x W x H)	162mm x 33.5mm x 21mm
Module Fixing Centres	155mm M4
Battery Size (L x Ø)	100mm x 34mm
Module Weight	0.1Kg
Battery Weight	0.15Kg
LED Weight	0.06Kg
Aperture	40-43mm
Bus Current Consumption	1.46mA

* After its inital charge, the S/ADM/1 will spend 90% of its operational life in standby mode

Lumen and Optic Angle

S/ADM/1/43/FL 115° Without Lens 237 lm
S/ADM/1/43/OA 135° Open Area Optic 268 lm
S/ADM/1/43/CO 115° x 155° Corridor Optic 266 lm
S/ADM/1/44/OA 135° Open Area with Dimming Halo 268 lm

Important

It is recommended that the product is installed by a competent person ensuring the installation complies with the necessary standards. Liteplan accept no responsibility for injury, damage or loss, which may arise as a result of incorrect installation, operation or maintenance.

The control gear requires an unswitched supply for charging the battery and a switched supply for maintained operation.

ISOLATE MAINS SUPPLIES AND DISCONNECT THE BATTERY BEFORE INSTALLATION OR MAINTENANCE.

Installation:

1. Cut a 40-43mm diameter hole in the ceiling tile (80mm void depth).
2. Connect the LED to the main assembly via the 4 way connector.
3. Connect the 2 core mains input cable as follows - Black Unswitched (Battery Charging) 240V and Blue to Neutral.
4. Only connect the battery when the Un-switched supply is fully assured. Even though these units are protected with a Deep Discharge Protection Circuit, the batteries can be damaged by being left in an uncharged state for prolonged periods. Ensure correct polarity.
5. When the supply is present and the battery connected, check that the green LED indicator is illuminated showing that the supply is healthy and the batteries are charging.
6. Pass the whole assembly through the 40mm aperture and clip the LED housing into the ceiling ensuring that the IP gasket is installed behind the bezel of the LED head if ingress protection is required.

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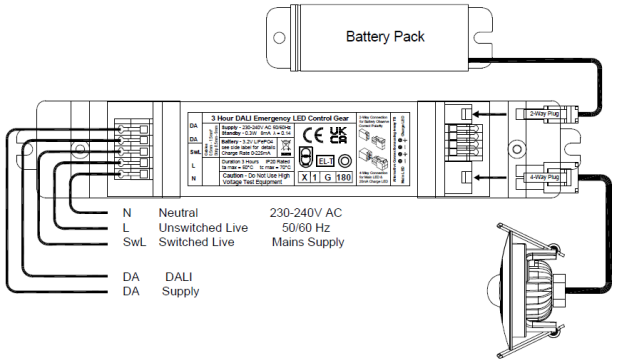
Typical Wiring Diagram



LED Fault indication			
		Self-test / DALI	Basic Emergency
Green Solid	Battery Charging, no fault	On	On
Green Blink	Pre-Commissioning	2.0s on, 0.2s off	
Green Flash	Function Test running	0.2x on, 2.0s off	
Green Flash	Duration test running	0.2s on, 2.0s off	
Green Flash	Duration test passed	4.0s on, 1.0s off (7 days)	
Red Blink	Battery Temperature fault	0.2s on, 3.8s off	
Red Flash x1	Battery fault	0.5s on, 3.5s off	
Red Flash x2	Lamp fault	2x 0.5s on, 2.5s off	
No Indication	Fault	-	Off
Red/Green Flash	Duration test timout (after 7 days)	2.0s green, 0.2s red	

Luminaire Ref/Location	**In Case of difficulty, contact the Installation Engineers:-** ..... Tel:	
Full Recharge Time 24 Hours	Duration 3 Hours	Lamp Type - LED

ROUTINE TEST RECORD

	Year 1		Year 2		Year 3		Year 4		Year 5	
Monthly Test	Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date
Functional										
Functional										
Functional										
Functional										
Functional										
Functional										
Functional										
Functional										
Functional										
Functional										
Functional										
Three Hour										

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