Installation & Wiring Instructions ADM/1 DALI-2 Self-Test Driver



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

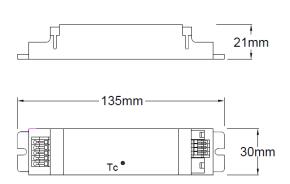
Description:

The ADM/1 is a standalone 3 hour DALI-2 self-test emergency driver. The LED load is driven at 700mA. 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 product features battery temperature protection in accordance with IEC 61347-2-7: 2012+A12:2022. DALI-2 certified device, registered with DiiA. The product features battery temperature protection in accordance with IEC 61347-2-7: 2012+A12:2022.

Specification:

Input Voltage	230-240 Volts AC 50/60 Hz				
Input Current & PF (standby	y) $0.3W 8mA - \lambda = 0.15$				
Input Current & PF (charging) 5W 28mA - λ = 0.74				
Insulation between supply & battery	Double Reinforced				
Duration	3-hours				
Maximum Module Tc	70°C				
Minimum Battery Tc	0°C				
Maximum Battery Tc	55°C				
Terminal Blocks	0.5-1.5mm ² Push Wire				
Battery Fuse	Internal				
Battery Discharge Current	900mA Nominal				
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)	135mm x 30mm x 21mm				
Module Fixing Centers	129mm				
Module Weight	0.10Kg				
Battery Details (mm)	Stick 90mm x 28mm x 26.5mm				
Battery Fixing Centres	80mm				
Battery Weight	0.11Kg				



Fixing Centres 129mm

ADM/1

700mA Switchable Maintained Emergency Driver for Single LED Loads Open Circuit Voltage (U-OUT) = 4 Volts

Important

It is recommended that the module 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 conversion requires an unswitched supply for charging the battery and a switched supply if the unit is being used for maintained operation.

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

Installation

When converting a luminaire observe the following points:-

- 1. Fit the module & battery pack into the existing luminaire ensuring that they will operate within their temperature ratings.
- If the module & battery pack do not fit integrally, then a remote conversion can be used. Ensure that the interconnecting loom is kept as short as possible.
- 3. Wire the module & battery to the dedicated emergency load as per wiring diagram on Pg2.
- 4. Ensure that the Permanent Live & Switched Live feeds are connected correctly.
- 5. Connect the cables from the DALI Panel
- 6. Arrange the wiring to avoid running the 240 Volt cables next to the modules output to the LED to obtain the best EMC results.
- 7. Requirements for 'F' markings must be observed.
- 8. Identify clearly the NEW Un-switched supply.
- 9. Ensure the LED Charge Indicator is clearly visible.
- If fitted within a metal enclosure, connect earth terminal to metal gear tray for improved EMC.
- 11. This module is not intended for use in luminaires for high-risk task area lighting.
- 12. This module is protected against battery polarity reversal.

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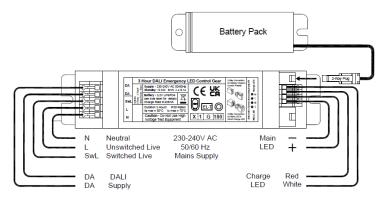
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Typical Conversion Wiring Diagram

NB: Charge LED colours based on using Liteplan charge LED



LED Fault indication								
		Self-test / DALI						
Green Solid	Battery Charging, no fault	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	-						
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	Si	gned	Date	Signed	Date	Signed	Date	Signed	Date
Functional											
Functional											
Functional											
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