

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

**Installation & Wiring Instructions for
S-DSP/4/3W DALI Module**

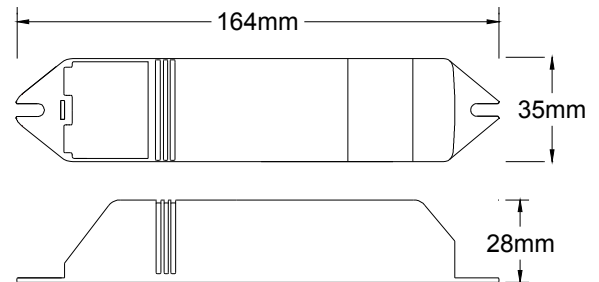
Description:

The S-DSP/4/M3 is a compact 3 hour DALI LED Emergency Lighting Pack designed to pass through a 43mm aperture in the ceiling, if required and can form part of any DALI compliant emergency lighting system. The unit is designed to power 1 LED at 700mA in both Switchable Maintained and Emergency mode. The unit is supplied with a 4.8V 3Ah Nickel Cadmium Battery Pack

Specification

Input Voltage	230-240 Volts AC 50/60 Hz
Input Current & PF	Maintained 37mA - $\lambda = 0.61$
	Non-Maint. 16mA - $\lambda = 0.48$
Insulation between supply & battery	Double Reinforced
Duration	3 hours
Ambient Temp.	0°C to + 50°C
Max Case Temperature	70°C
Max Battery Temperature	55°C
Terminal Blocks	1.0-1.5mm ² Push Wire
Battery Fuse	Internal
Battery Discharge Current	500mA
Discharge Voltage Limit	3.5V
LED Current - Maintained	700mA
LED Current - Emergency	700mA
Ingress Protection	IP20
Battery Pack	4.8V 3.0Ah C Cell Ni-Cd
Charge Current	150mA Nom
Recharge Period	24 Hours
Module Size (L x W x H)	164mm x 35mm x 28mm
Module Fixing Centers	150mm
Module Weight	0.1Kg
Battery Details (mm)	
4.8V 3.0Ah – Flexi	Ø 27mm x 285mm
Battery Weight	0.25Kg

If the above unit is supplied with our LED/40 or LED/41 Series LED's and the Emergency Lighting Pack has to pass through the LED's aperture, then a maximum 43mm hole is required in the ceiling for the above pack.



Fixing Centres 150mm x M4

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.

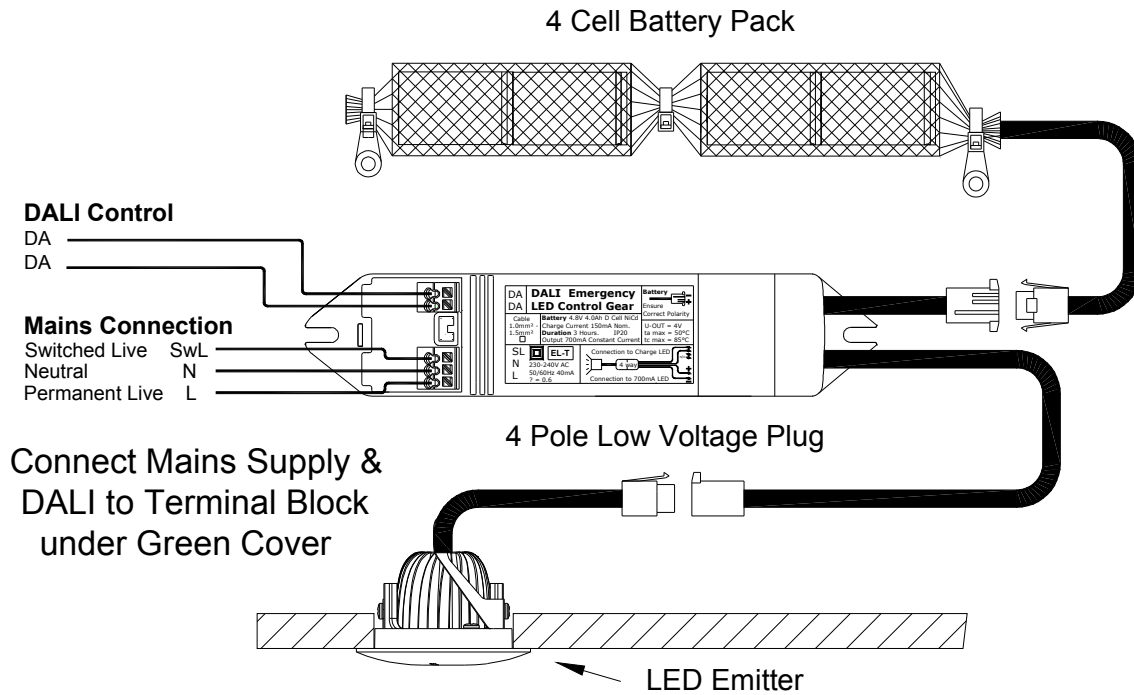
ISOLATE BOTH MAINS SUPPLIES AND DISCONNECT THE BATTERY BEFORE INSTALLATION OR MAINTENANCE.

Installation

When installing the kit into a ceiling, observe the following points:-

1. Drill a hole in the ceiling to accept the Emergency LED.
2. Connect the mains supply to the 3 way connector ensuring the permanent live & switched live, if required, are connected to the correct terminals
3. Connect the DALI cables to the 2 way connector.
4. Connect the battery & LED head to their respective connectors.
5. Ensure the module and battery operate within their temperature ratings.
6. Arrange the wiring to avoid running the 240 Volt cables next to the modules output to the LED(S) to obtain the best EMC results.
7. Requirements for 'F' markings must be observed.

Typical Conversion Wiring Diagram



Testing/Commissioning

- Ensure the Load is connected.
- Connect the battery.
- Switch on the Unswitched Supply - Check the Charge LED illuminates.
- Switch on the Maintained Supply (if connected) - Check the LED illuminates as normal.
- Switch off the Maintained Supply (if connected).
- Switch off the Unswitched Supply - Check the Charge LED extinguishes and the load LED illuminates.
- Enter the commissioning date on the Battery Pack.
- Switch on the Unswitched Supply.

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