

Installation & Wiring Instructions

DNA/1S/80/TP40/R - Two Part Remote DALI Self-Test Conversion Kit



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

Description:

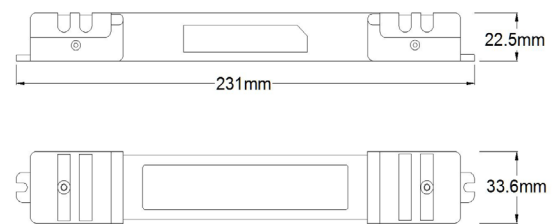
The Liteplan DNA/1S/80/TP40/R DALI self-test emergency lighting modules are designed to convert a wide range of LED types with one main version. The DNA/1S/80/TP40/R is the popular choice for converting most standard LED luminaires and arrays between 6 and 80 Volts.

The modules are designed to be installed into the low voltage connection between the mains driver and the LEDs and allow the LEDs to be operated as normal under mains healthy conditions and operated at reduced light output in an emergency. The module automatically adjusts the output LED current to provide the best match between the battery and the load, providing maximum illumination whilst ensuring full battery duration and are compatible with a wide range of lighting.

Specification:

Input Voltage	230-240 Volts AC 50/60 Hz
Power Rating (charging)	2.8W 17mA - $\lambda = 0.67$
Duration	3-hours
Ambient Temp.	0°C to + 50°C
Max Case Temperature	70°C
Max Battery Temperature	55°C
Termination	Feruled Cables
Battery Fuse	Internal
Battery Discharge Current	1A nominal
Discharge Voltage Limit	2.4V
Ingress Protection	IP20
Battery Pack	3.2V 4.8Ah LiFePO ₄
Charge Current	225mA nominal
Recharge Period	24-Hours
Module Size (L x W x H)	231mm x 33.6mm x 22.5mm
Module Fixing Centers	224mm
Module Weight	0.21Kg
Battery Weight	0.16Kg
Battery Dimensions	220mm x 32mm x 28.1mm
Insulation between Supply & Battery	Double Reinforced

Cut-out (mm)	40	45	50	53	56	60	65	70	75
Void (mm)	180	150	140	135	130	100	85	80	65



Fixing Centres 224mm

DNA/1S/80/TP40/R Prated - 2.3W
I_{rated} - 313mA - 29mA
Voltage Range 6 - 80 Volts
Open Circuit Voltage (U-OUT) = 90 Volts

Warning

Avoid running the LED mains driver and emergency pack without the load connected. Failure to do so may result in damage to the LED array

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. Ensure that the module and battery pack will operate within their temperature ratings at their chosen location.
2. Ensure that the interconnecting loom is kept as short as possible.
3. Ensure that the Permanent Live & Switched Live feeds are connected correctly.
4. Arrange the wiring to avoid running the 240 Volt cables next to the modules output to the LED to obtain the best EMC results.
5. Requirements for 'F' markings must be observed.
6. Identify clearly the NEW Un-switched supply.
7. Ensure the LED Charge Indicator is clearly visible in every day use.
8. If fitted within a metal enclosure, connect earth terminal to metal gear tray for improved EMC.
9. This module is not intended for use in luminaires for high-risk task area lighting.
10. Ensure that DALI cables are run away from mains voltage cables.
11. This module is protected against battery polarity reversal.

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Liteplan reserve the right to change colour, price or specification without prior notice

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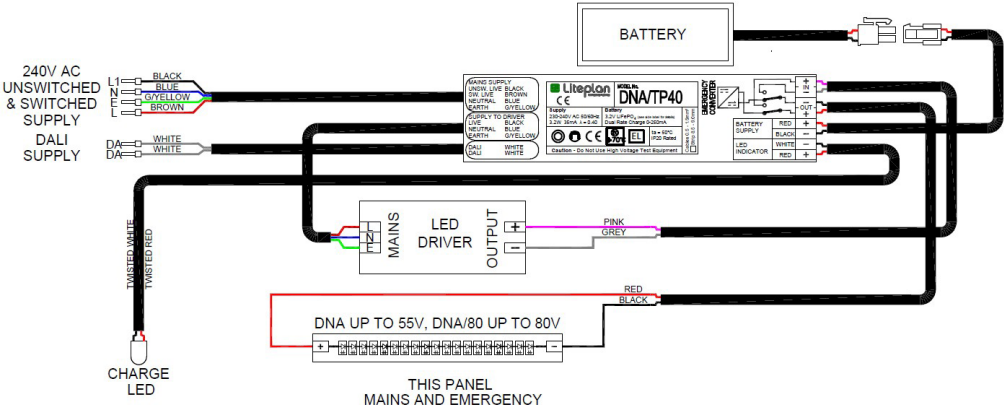


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Typical
Conversion
Wiring Diagram



Device Status Indicator:

Green Solid		Battery connected & charging	Red Fast Flash2 x 0.5 sec On, 2.5 sec Off	Lamp Fault
Green Flash	2.0 sec On, 0.2 sec Off	48h Pre-Commissioning	Red Slow Flash 0.5 sec On, 3.5 sec Off	Battery Fault
Green Flash	0.2 sec On, 2.0 sec Off	Function Test in progress	Red / Green Alternating	Identification Mode
Green Flash	0.2 sec On, 2.0 sec Off	Duration Test in progress	Red & Green Off	In Emergency Mode

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										
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Functional										
Functional										
Functional										
Functional										
Three Hour										