Installation & Wiring Instructions NLP/1/TP40-R

Two Part Remote Conversion Kit



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

Description:

The Liteplan range of NLP/1 modules are designed to convert a wide range of LED types with one main version. The NLP/1/TP40 is the popular choice for converting most standard LED luminaires and arrays containing from 6 to 55 Volts.

The modules are designed to be installed into the low voltage connection between the mains driver and the LEDs and allows the LEDs to be operated as normal under mains healthy conditions and operated at reduced output in an emergency. The module automatically adjusts the output 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.

The unit will recharge the batteries after the test of clause 22.3 of BS EN 61347-2-7:2012.

The battery is fitted with a PCM to protect the supply voltage against reverse polarity.

231mm 22.5mm 33.6mm

Fixing Centres 224mm

NLP/1/TP40-R

*P*rated - 2.2W *I*rated - 323-40mA

Voltage Range 6 - 55 Volts

Open Circuit Voltage (U-OUT) = 60 Volts

Specification:

Input Voltage	230-240 Volts AC 50/60 Hz						
Power Rating (charging)	$2.7W - 17mA - \lambda = 0.58$						
Insulation between supply & battery	Double Reinforced						
Duration	3-hours						
Ambient Temp. Ta	0°C to + 50°C						
Max Case Temp. Tc	70°C						
Max Battery Temperature	55°C						
Recharge Period	24 Hours						
Battery Type	3.2V 3.8Ah LiFePO4						
Charge Current	225mA nominal						
Discharge Current	900mA nominal						
Charge Voltage Limit	4.0 Volts						
Discharge Voltage Limit	2.4 Volts						
Ingress Protection	IP20						
Battery Weight	0.13Kg						
Module Size (L x W x H)	231mm x 33.6mm x 22.5mm						
Module Fixing Centers	224mm						
Module Weight	0.21Kg						
Battery Details (mm)							

Stick 90mm x 28mm diameter - FC = 80mm

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

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.

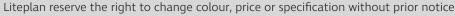
ISOLATE BOTH MAINS SUPPLIES AND DISCONNECT THE BATTERY BEFORE INSTALLATION OR MAINTENANCE.

Installation

When converting a luminaire observe the following points:-

- Ensure that the module and battery pack will operate within their temperature ratings at their chosen loaction.
- 2. Ensure that the interconnecting loom is kept as short as possible.
- 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.
- 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. This module is protected against battery polarity reversal.

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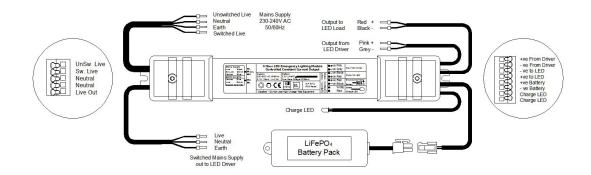


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Typical Conversion Wiring Diagram



Testing/Commisioning:

- Ensure the load is connected.
- Connect the battery.
- Switch on the Unswitched Supply Check the Charge LED illuminates.
- Switch on the Maintained Supply Check the LED illuminates as normal.
- Switch off the Maintained Supply.
- Switch off the Unswitched Supply Check the Charge LED extinguishes and the load LED illuminates at a reduced output.
- Enter the commissioning date on the Battery Pack. Switch on the Unswitched Supply

Luminaire Ref/Location		In Cas	In Case of difficulty, contact the Installation Engineers:-								
Full Recharge Time 24 Hours				Duration 3 Hours				Lamp Type - LED			
			•	ROUTINE	TEST RECOR	D					
	Year [*]	1 Yea		Year 2 Year 3		3	Year 4		Year 5		
Monthly Test	Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date	
Functional											
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Three Hour											

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