Installation & Wiring Instructions
NED/3 Conversion Kit

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

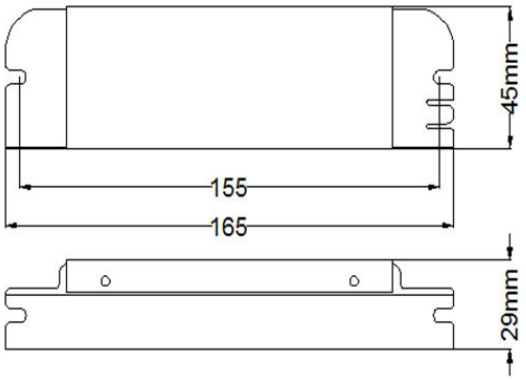
Description:

The Liteplan NED/3 emergency lighting modules are designed to convert a wide range of LED types with two versions. The NED/3 is the popular choice for converting most standard LED luminaires and arrays containing from 2 to 20 LEDs in series, whilst the NED/3/80 extends the range by converting from 2 to 30 LED's in series.

The modules are designed to be installed by breaking into the low voltage connection between the mains LED Driver and the LEDs and allows 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.

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



Specification:

Input Voltage	230-240 Volts AC 50/60 Hz
Power Rating	4.7W - 22mA - λ = 0.85
Duration	3 hours
Ambient Temperature Ta	0°C to + 50°C
Max Case Temperature Tc *	70°C
Max Battery Temperature Tc	55°C
Terminal Blocks	0.5-1.5mm² Screw
Battery Fuse	Internal
Charge Voltage Limit	5.0V
Battery Type	High Temp - 3KRMU33/62
Battery Pack	3.6V 4.5Ah NiCd
Charge Current	200mA ± 50mA
Discharge Current	1000mA ± 150mA
Recharge Period	24 Hours
Module Size (L x W x H)	165mm x 45mm x 29mm
Module Fixing Centers	155mm
Module Weight	0.29Kg
Battery Weight	0.40Kg
Battery Dimensions	220mm x 37mm diameter
Battery Fixing Centres	205mm
Insulation Between Supply and Battery	Double Reinforced
Dishcharge Voltage Limit	2.5V

* Geometric Side of Case

NED/3

*P*rated - 3W to 80W
*I*rated - 320mA - 40mA
Voltage Range - 6 - 55 Volts
Open Circuit Voltage (U-OUT) = 60 Volts

NED/3/80

*P*rated - 3W to 80W
*I*rated - 320mA - 25mA
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. This module must be earthed via the metal can.

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.
2. 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 into the luminaire as per wiring diagram on Page 2.
4. Ensure that the Permanent Live & Switched Live feeds are connected correctly.
5. Arrange the wiring to avoid running the 240 Volt cables next to the modules output to the LED to obtain the best EMC results.
6. Requirements for 'F' markings must be observed.
7. Identify clearly the NEW Un-switched supply.
8. Ensure the LED Charge Indicator is clearly visible.
9. If fitted within a metal enclosure, connect earth terminal to metal gear tray for improved EMC.
10. This module is not intended for use in luminaires for high-risk task area lighting.
11. This module is protected against battery polarity reversal.

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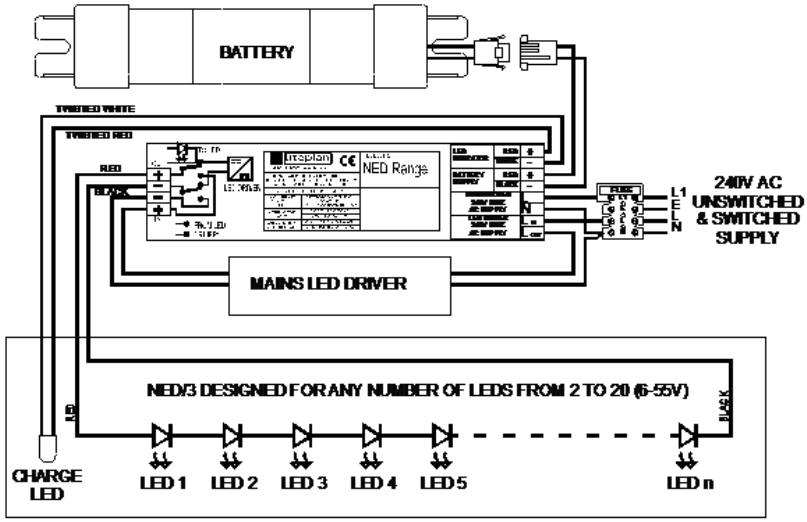
Typical
Conversion
Wiring Diagram



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 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										

Tel +44 (0)1708 372223 | www.liteplan.com | customerservice@liteplan.com | RM3 0AP. UK

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