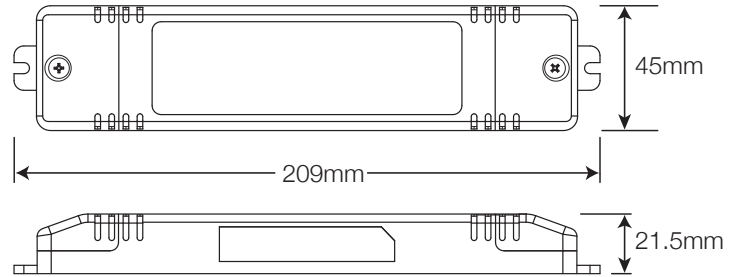


**PLEASE READ** THESE INSTRUCTIONS BEFORE COMMENCING INSTALLATION & LEAVE WITH END USER

### Description:

The DXi/3 is a compact 3 hour DALI Self-Test LED Emergency Lighting Module designed to convert a wide range of LED types with two versions. The DXi range is 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. If the unit is not connected to a DALI system, it acts as a Self-Test Lighting Module.



Fixing Centres 202mm x M4

### Specification:

|  |                                    |
|--|------------------------------------|
| Input Voltage                                    | 230-240 Volts AC 50/60 Hz          |
| Input Current & PF                               | Non-Maint. 25mA - $\lambda = 0.50$ |
| Insulation between supply & battery              | Double Reinforced                  |
| Isolation between supply & DALI Terminals $\geq$ | 1.5kV                              |
| Duration   | 3 hours                            |
| Ambient Temp.                                    | 0°C to + 50°C                      |
| Max Case Temperature                             | 75°C                               |
| Max Battery Temperature                          | 55°C                               |
| Terminal Blocks                                  | 0.5-1.5mm <sup>2</sup> Push Wire   |
| Battery Fuse                                     | Internal                           |
| Battery Discharge Current                        | 1000mA $\pm$ 150mA                 |
| Discharge Voltage Limit                          | 2.5V                               |
| Ingress Protection                               | IP20                               |
| Battery Pack                                     | 3.2V 4.5Ah LiFePO <sub>4</sub>     |
| Charge Current                                   | Dual Rate 0-225mA                  |
| Recharge Period                                  | 24 Hours                           |
| Module Size (L x W x H)                          | 209mm x 45mm x 21.5mm              |
| Module Fixing Centers                            | 202mm                              |
| Module Weight                                    | 0.12Kg                             |

#### Battery Details (mm)

Type T1 - Stick 230 x 21 x 22mm FC = 215mm

Type T2 - Plate 72 x 55 x 21mm FC = 20 x 19mm

|                |        |
|----------------|--------|
| Battery Weight | 0.14Kg |
|----------------|--------|

#### DXi/3

3W to 80W LEDs that operate in Voltage Range 6 - 55 Volts  
Open Circuit Voltage (U-OUT) = 60 Volts

#### DXi/3/80

3W to 80W LEDs that operate in Voltage Range 6 - 80 Volts  
Open Circuit Voltage (U-OUT) = 90 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.**

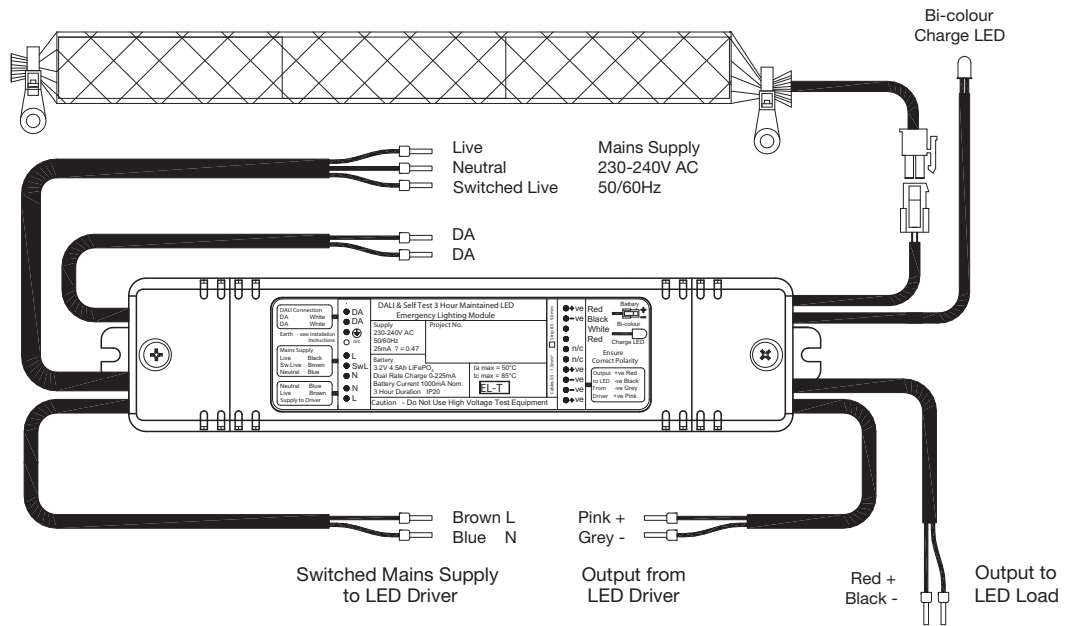
#### Installation

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.
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 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.
10. 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.

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

Typical Conversion Wiring Diagram



## Device Status Indicator:

|                       |                         |   |                         |                         |                     |
|-----------------------|-------------------------|---|-------------------------|-------------------------|---------------------|
| Green Solid           |                         | Battery connected & charging                  | Red Solid               |                         | Emergency LED Fault |
| Green Fast Flash      | 0.1 sec On, 0.1 sec Off | Function Test in progress                     | Red Fast Flash          | 0.1 sec On, 0.1 sec Off | LED Driver Fault    |
| Green Slow Flash      | 1.0 sec On, 1.0 sec Off | Duration Test in progress                     | Red Slow Flash          | 1.0 sec On, 1.0 sec Off | Battery Fault       |
| Green Very Slow Flash | 4.0 sec On, 1.0 sec Off | Automatic Duration Test Passed in last 7 days | Red / Green Alternating |                         | Identification Mode |
|                       |                         |   | Red & Green Off         |                         | In Emergency Mode   |

| Luminaire Ref/Location      | In Case of difficulty, contact the Installation Engineers:-<br>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                  |   |      |        |      |                 |      |        |      |        |      |
| Three Hour                  |   |      |        |      |                 |      |        |      |        |      |