# Installation & Wiring Instructions
EMTrac/48/119 Emergency LED

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

## Description:

The EMTrac/48 is a self-contained 3 hour non-maintained emergency fitting designed as a simple solution to the emergency lighting requirements of 48V track lighting schemes. The product is designed for use with 4-circuit DALI track systems and can either be used to provide DALI feedback, or as standalone self-test.
The battery is a 3.2V 3.8Ah lithium iron phosphate (LiFePO4). The LED is driven at 700mA and provides 209 lumen for three hours.

The EMTrac/48/1/DA operates the DALI-2 protocol.

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

## Lumen Level, Operation and Colour

EMTrac/48/119/W 209lm, DALI-2 self-test in white
EMTrac/48/119/B 209lm, DALI-2 self-test in black

## Specification:

| | |
|---|---|
| Input Voltage | 230-240 Volts AC 50/60 Hz |
| Power Rating Charging * | 30mA λ = 1 |
| Power Rating Charged * | 3mA λ = 1 |
| Duration | 3 hours |
| Ambient Temperature | 0°C to + 50°C |
| Min. Battery Temperature | 0°C |
| Max. Battery Temperature | 55°C |
| Battery Fuse | Internal |
| Discharge Current | 900mA Nominal |
| Discharge Voltage Cut-off | 2.5V |
| Ingress Protection | IP20 |
| Battery Pack | 3.2V 3.8Ah LiFePO4 |
| Charge Current | 225mA Nominal |
| Recharge Period | 24 Hours |
| Overall Weight | 1.4Kg |

* LiFePO4 control gear will initially charge the battery and then spend 90% of its operational life in a 'Charged' or standby state.

### Important

It is recommended that the unit 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 product requires an un-switched supply for charging the battery..

ISOLATE MAINS SUPPLY AND DISCONNECT THE BATTERY BEFORE INSTALLATION OR MAINTENANCE.

Installation:

1. Open the body of the EMTrac fititng by removing the screw at each end
2. Connect the battery to the control gear via the two way ireversible connector.
3. Enter the commisioning date to the label of the battery
4. Fit the cover to the body, ensuring that no cables are caught and fix in place with the two end screws
5. Offer the EMtrac/48/119 to the track, locking the adaptor in place. The adaptor will be offset at this stage.
6. Twist the body so that it faces the same way as the track.
7. See Installation diagram overleaf.

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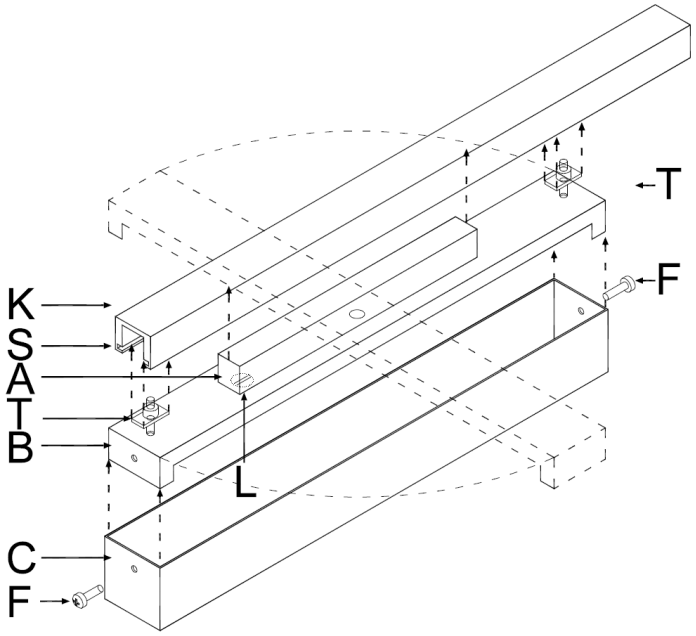
Installation
Diagram:




On Installation
Push fit adapter (A) into 48V track (K)
Twist base (B) so it lines up with adapter (A).
Connect LED lead and battery lead. Fit cover (C) and fix with fasteners (F) at either end

To remove.
Remove cover (C) by unscrewing fasteners (F) and Disconnecting LED lead. Release adapter (A) by twisting lock (L), and pull it away from 48V track.

| LED Fault indication | | | |
|---|---|---|---|
| | | Self-test / DALI | Basic Emergency |
| Green Solid | Battery Charging, no fault | On | On |
| Green Blink | Pre-Commissioning | 2.0s on, 0.2s off | |
| Green Flash | Function Test running | 0.2x on, 2.0s off | |
| Green Flash | Duration test running | 0.2s on, 2.0s off | |
| Green Flash | Duration test passed | 4.0s on, 1.0s off (7 days) | |
| Red Blink | Battery Temperature fault | 0.2s on, 3.8s off | |
| Red Flash x1 | Battery fault | 0.5s on, 3.5s off | |
| Red Flash x2 | Lamp fault | 2x 0.5s on, 2.5s off | |
| No Indication | Fault | - | Off |
| Red/Green Flash | Duration test timout (after 7 days) | 2.0s green, 0.2s red | |

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ISS 061025