

# Installation & Wiring Instructions

## EMTrac/48/119/DEEP Emergency LED



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

### Description:

The EMTrac/48/119/DEEP 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 (LiFePO<sub>4</sub>). The LED is driven at 700mA and provides 209 lumen for three hours.

The EMTrac/48/119/DEEP 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.

### Specification:

Input Voltage	230-240 Volts AC 50/60 Hz
Power Rating Charging *	30mA $\lambda = 1$
Power Rating Charged *	3mA $\lambda = 1$
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 LiFePO <sub>4</sub>
Charge Current	225mA Nominal
Recharge Period	24 Hours
Overall Weight	1.4Kg

\* LiFePO<sub>4</sub> control gear will initially charge the battery and then spend 90% of its operational life in a 'Charged' or standby state.



### Lumen Level, Operation and Colour

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

#### 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.

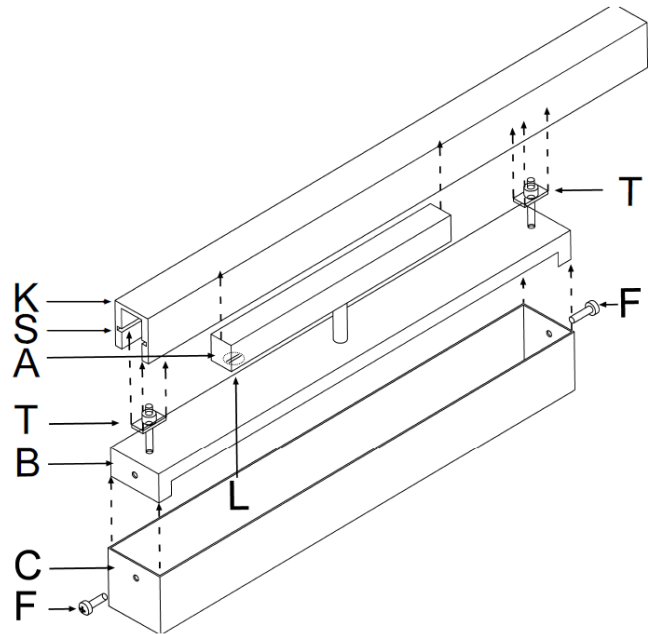
#### Installation:

1. Open the body of the EMTrac fitting by removing the screw at each end
2. Fit the track adaptor to the track, locking it in place.
2. Connect the battery to the control gear via the two way irreversible connector.
3. Enter the commissioning 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/deep 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)  
Fit base (B) to recessed track (K) using toggles (T) at either end. Twist toggles so they enter track and line up with slots (S), turn toggle screws clockwise so the toggles locate in slots (S), and hold body (B).  
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). Disconnect LED lead. Release base (B), turning anticlockwise toggles (T) so base (B) can pull away from track (K). Release adapter (A) by twisting lock (L), and pull it away from 48V track (K).

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	0.2s 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 timeout (after 7 days)	2.0s green, 0.2s red	