Installation & Wiring Instructions
EMTrac Emergency LED

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

Description:

The EMTrac is a standalone 3 hour non-maintained emergency fitting designed as a simple solution to the emergency lighting requirements of track fed lighting schemes. The battery is a 3.2V 3.8Ah lithium iron phosphate (LiFePO4). The LEDs are driven at 700mA and provide 254 lumens for three hours.

The EMTrac/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.
The product features battery temperature protection in accordance with IEC 61347-2-7: 2012+A12:2022.



Lumen Level, Operation and Colour

EMTrac/1/NM/W	254lm, non-maintained in white
EMTrac/1/NM/B	254lm, non-maintained in black
EMTrac/1/NM/DA/W	254lm, DALI-2 self-test in white
EMTrac/1/NM/DA/B	254lm, DALI-2 self-test in black

Specification:

Input Voltage	230-240 Volts AC 50/60 Hz
Power Standard Charging *	2W 25mA λ = 0.35
Power Standard Charged *	0.45W 7.5mA λ = 0.24
Power DALI Charging *	5W 28mA λ = 0.76
Power DALI Charged *	0.3W 8mA λ = 0.15
Duration	3 hours
Ta Parameters	0°C to + 35°C
Minimum Battery Tc	0°C
Maximum Battery Tc	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

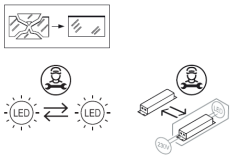
It is recommended that the unit is installed by a competent person ensuring the installation complies with the necessary standards. Liteplan accept no responsibility for injury, damage or loss, which may arise as a result of incorrect installation, operation or maintenance.

The product requires an un-switched supply for charging the battery..

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

Installation:

1. Fit the track adaptor to the track and set the required circuit.
2. Offer the body to the track and tighten the twist brackets with a pozidrive screw driver
3. If using the counter sunk rivets, the side brackets should be fitted with the plastic rivet bush at the top.
4. If using the counter sunk screws, the side bracket should be fitted with the M4 anchor bush at the top.
5. Fit the cover to the body, ensuring that the charge LED meets its locator.
6. Fit either the flush plastic rivets, or the M4 countersunk screws to hold the cover in place.
7. Do not connect the battery until permanent power is assured.
8. See Testing and Commissioning section



The light source and control gear in this luminaire shall only be replaced by the original manufacturer, service agent or a similarly qualified person.

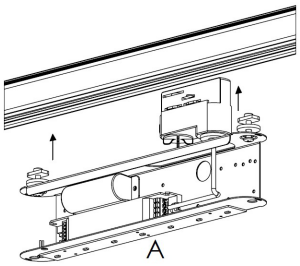
The battery within this luminaire is servicable and should be replced with the Liteplan part number 1/LP38/S/TE. This change should be carried out by a qualified professional.

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Liteplan emergency lighting

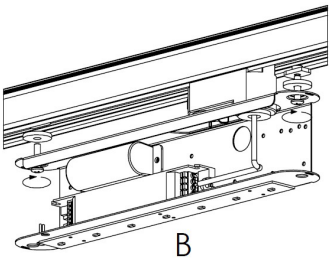
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Figure one



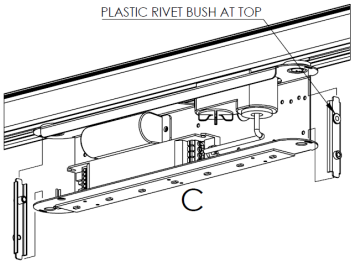
1- Fit the track adaptor in place, set the required circuit and offer the body of the EMTrac to the track.

Figure two



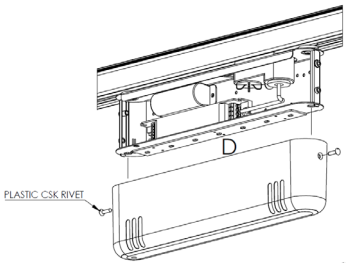
2 - Tighten the twist brackets in place using a pozidrive screwdriver. Enter the commissioning date to the label on the battery and connect the 3-way battery connector.

Figure three



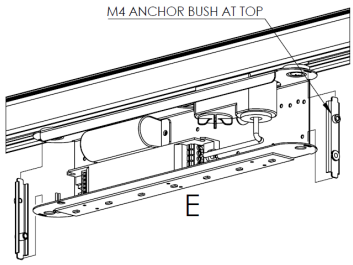
3 - If using the flush fixings, the side brackets should be fitted with the plastic bush at the top.

Figure four



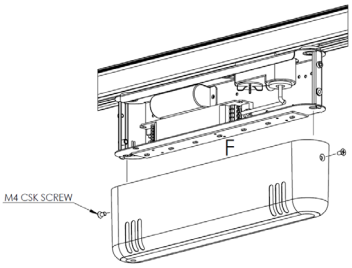
4 - If using the flush fixings, fit the cover, ensuring that the charge indicator is visible through its locator and push the plastic counter sunk rivets into place to hold the cover.

Figure five



5 - If using the counter sunk screws, the side brackets should be fitted with the M4 anchor bush at the top.

Figure six



6 - If using the M4 screws, fit the cover, ensuring that the charge indicator is visible through its locator and fit the M4 counter sunk screws to hold the cover in place.

Testing/Commissioning:

- Ensure the load is connected.
- Switch on the Un-switched supply - Check the charge LED illuminates.
- Switch off the Un-switched supply - Check the charge LED extinguishes and the central load LED illuminates.
- Switch on the Un-switched supply.

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Liteplan reserve the right to change colour, price or specification without prior notice

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