

# Installation & Wiring Instructions

CT7S/NM

Emergency Twin Spot



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

## Description:

The CT7S/NM is a simple solution to your emergency lighting applications. The only connection required is a permanent Live, Neutral and Earth. Where required, DALI +/- connections.

Suitable for internal applications.

The CT7S/NM is available as either standard emergency or as DALI-2 self-test. As per the DALI standard, if the DALI version is not connected to a control system, then the fitting will revert to standalone self-test operation. Each head has an output of 3W, providing a total output of 6W. The product features battery temperature protection in accordance with IEC 61347-2-7: 2012+A12:2022.



## Specification:

Input Voltage	230-240 Volts AC 50/60 Hz
Power Rating Charging *	3.8W 21mA - $\lambda = 0.77$
Power Rating Standby	1.3W 12mA $\lambda = 0.45$
Battery Tc Parameters	0°C to + 55°C
Mains Input Terminal	0.5mm - 2.5mm
Battery Fuse	Internal to EM Module
Battery Discharge Current	900mA
Discharge Voltage Limit	5V
Ingress Protection	IP65
Battery Pack	6.4V 4.8Ah LiFePO4
Charge Current	225mA Nominal
Recharge Period	24 Hours
Width and Length	250mm x 200mm
Depth	70mm
Side Cable Entry	20mm Knock Outs L&R
Rear Cable Entry	20mm Knock Out Centre
Overall Weight	1.3Kg

\* After its initial charge, the CT7S will spend 90% of its operational life in standby mode

## Product codes

CT7S/NM	Non-maintained Basic Twinspot
CT7S/DA	Non-Maintained DALI-2 Twinspot
CT7S/LMEM	Non-Maintained Wireless Twinspot

## Important

It is recommended that this product is installed by a competent person in accordance with the current building and wiring regulations. 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 and a switched supply for maintained operation.

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

### Installation:

1. Remove the two front screws and lift off cover.
2. Open your desired cable entry and feed mains cable through.
3. Connect the cables to the terminal block as shown in the diagram overleaf.
4. Do not connect a Switched Live.
5. Connect the battery.
6. Fit the screws back into the cover..

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

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ISS 230326



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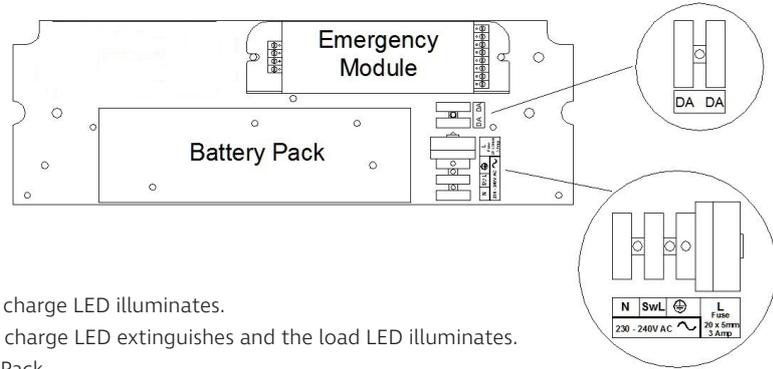
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Typical Wiring Diagram



## Testing/Commissioning:

- Ensure the power is connected.
- Connect the battery.
- Switch on the Un-switched supply - Check the charge LED illuminates.
- Switch off the Un-switched supply - Check the charge LED extinguishes and the load LED illuminates.
- Enter the commissioning date on the Battery Pack.
- Switch on the Un-switched supply

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

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										
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Functional										
Functional										
Functional										
Three Hour										

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