# Installation & Wiring Instructions HBE4 LED LSTR – Suspended Exit Sign For use with Reacta-Link Wireless System



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

## **Description**:

The HBE4 is a compact, architectural suspended exit sign. The HBE4 is designed to be ceiling mounted as shown overleaf.

The battery is a 3.2V 3.8Ah lithium iron phosphate (LiFePO4). The LEDs are driven at 700mA and provide suitable legend Illumination for 3 hours. The control gear that powers the HBE4/DA operates with the DALI-2 protocol.

The HBE4 is supplied with a kit of ISO7010 legend vinyls, so you can choose from arrow up, arrow down, arrow left, or arrow right at the point of installation.

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

# Specification:

Max Height 100cm	40mm	

### Part Codes

HBE4 LED NM3 LSTR \*\* Non-Maintained Emergency 3 Hour

\*\* Denotes arrow direction required. UL for arrow up, DL for arrow down and DSL for arrow left/arrow right

Input Voltage	230-240 Volts AC 50/60 Hz
Power Standard Charging *	5.7W 34mA $\lambda = 0.71$
Power Standard Charged *	0.2W 11mA λ = 0.07
Power DALI Charging *	5.4W 30mA λ = 0.75
Power DALI Charged *	0.3W 8mA λ = 0.15
Duration	3-hours
Ambient Temperature Ta	25°C
Max Battery Temperature	55°C
Battery Fuse	Internal
Discharge Current	900mA nominal
Discharge Voltage Cut-off	2.5V
Ingress Protection	IP40
Battery Pack	3.2V 3.8Ah LiFePO4
Charge Current	225mA nominal
Recharge Period	24 Hours
Overall Weight	1.2Kg
Maximum Cable Drop	1,000mm

\* 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.

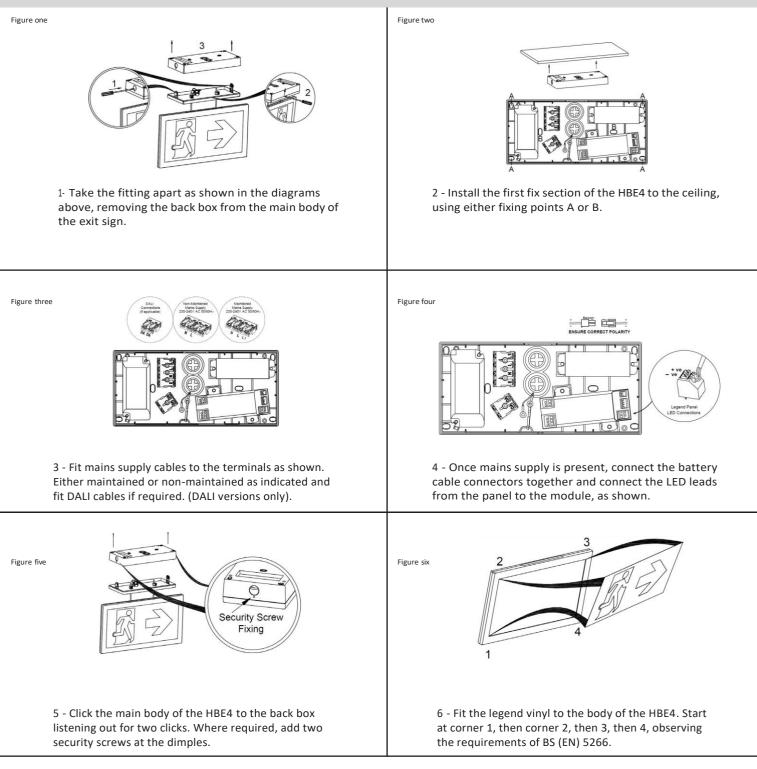
#### Installation:

- 1. Cut power to the location, via the breaker.
- 2. Remove the first fix from the ceiling box.
- 3. Install the first fix section to the ceiling, as required and bring the mains cable through. See overleaf.
- Install the mains cables either as maintained, or nonmaintained and, where required, the DALI bus cables as shown overleaf.
- 5. Connect the strain relief cable between the first fix and the main ceiling box.
- 6. Connect the Output to LED lead to the main body of the ceiling box.
- 7. Once permanent power is assured, connect the battery connectors.
- Adjust the suspension cables to your desired length, at a maximum of 1,000mm (in keeping with regulations). If cutting down length, the insulated cable must be tinned.
- 9. Click the body to the first fix, adding security screws, where required.
- 10. Fit the legend vinyl, ensuring the correct arrow direction is chosen. This should follow the guidance of BS (EN) 5266.





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### 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.

DIL-0300-0085

ISS 141223

