

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.

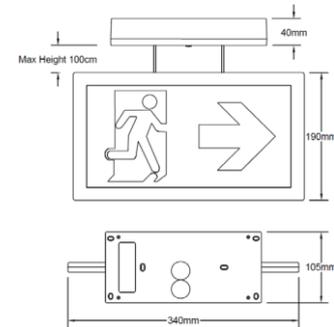
The HBE4 is supplied with a kit of ISO7010 legend vinyls, so you can choose from arrow up, arrow down, arrow left, or arrow right at the point of installation.

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

Specification:

Input Voltage	230-240 Volts AC 50/60 Hz
Power Standard Charging *	5.7W 34mA $\lambda = 0.71$
Power Standard Charged *	0.2W 11mA $\lambda = 0.07$
Power DALI Charging *	5.4W 30mA $\lambda = 0.75$
Power DALI Charged *	0.3W 8mA $\lambda = 0.15$
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.



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

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.
4. Install the mains cables either as maintained, or non-maintained 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.
8. 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.

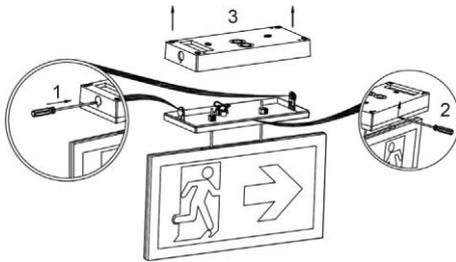
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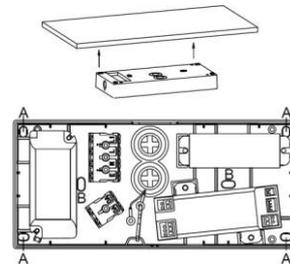
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Figure one



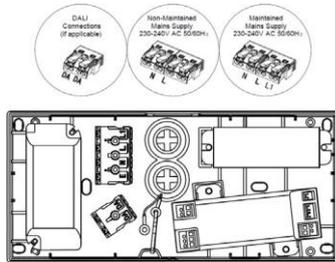
1- Take the fitting apart as shown in the diagrams above, removing the back box from the main body of the exit sign.

Figure two



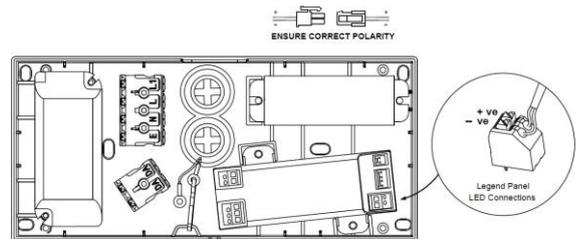
2 - Install the first fix section of the HBE4 to the ceiling, using either fixing points A or B.

Figure three



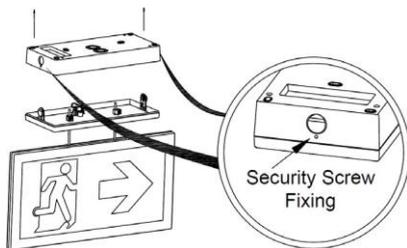
3 - Fit mains supply cables to the terminals as shown. Either maintained or non-maintained as indicated and fit DALI cables if required. (DALI versions only).

Figure four



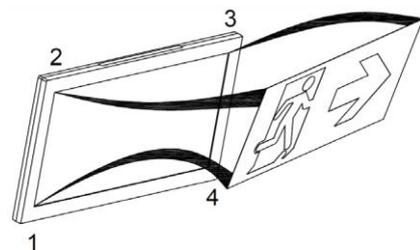
4 - Once mains supply is present, connect the battery cable connectors together and connect the LED leads from the panel to the module, as shown.

Figure five



5 - Click the main body of the HBE4 to the back box listening out for two clicks. Where required, add two security screws at the dimples.

Figure six



6 - Fit the legend vinyl to the body of the HBE4. Start at corner 1, then corner 2, then 3, then 4, observing the requirements of BS (EN) 5266.

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.