



## PRODUCT SPECIFICATION

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HBE WIRELESS



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## INTRODUCTION

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The HBE Wireless is available in both suspended and surface mount options. We offer a range of wireless control systems providing localised grouping and control as well as comprehensive wireless solutions allowing both standard and emergency luminaires to be centrally monitored.

CE IP40

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## APPLICATION

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- Accent Lighting
- Canteen
- Commercial / Offices
- Corridor
- Display Lighting
- Education
- Exterior
- Food Production
- Healthcare / Social Housing
- Hotel / Leisure
- Industrial / Manufacturing
- Kitchen
- Office
- Parking / Exterior
- Retail
- Stairwell
- Store Room
- Toilet
- Transport
- Warehousing

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## SPECIFICATION

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### CONSTRUCTION

- Housing: Injection moulded polycarbonate
- Finish: Matt white
- ISO 7010 or Euro Norm Legends with all directional arrow options.
- IP40

### ENVIRONMENTAL

- Powered by European branded drivers and emergency modules ensuring replacement parts are easily sourced.
- Every luminaire is labelled with a unique ID number allowing easy identification of spare parts for the lifetime of the product.
- Contains no single use plastics or polystyrene packaging.
- Supplied in plain card boxes with paper tape ensuring packaging is easily recycled.
- Designed to allow simple disassembly for end of life recycling.

- UK based manufacturing providing local support throughout the product lifetime and minimising transportation miles.

### EMERGENCY

- Optional Reacta-Link wireless emergency for automated centralised reporting.
- Optional Reacta-Control wireless emergency for automated centralised reporting.

### INSTALLATION

- Suitable for suspended installation
- Suitable for surface installation

IMAGES

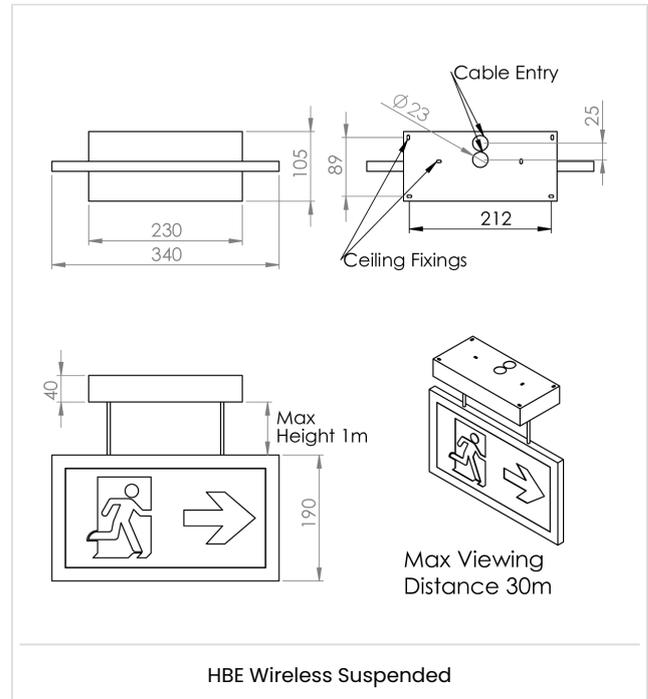
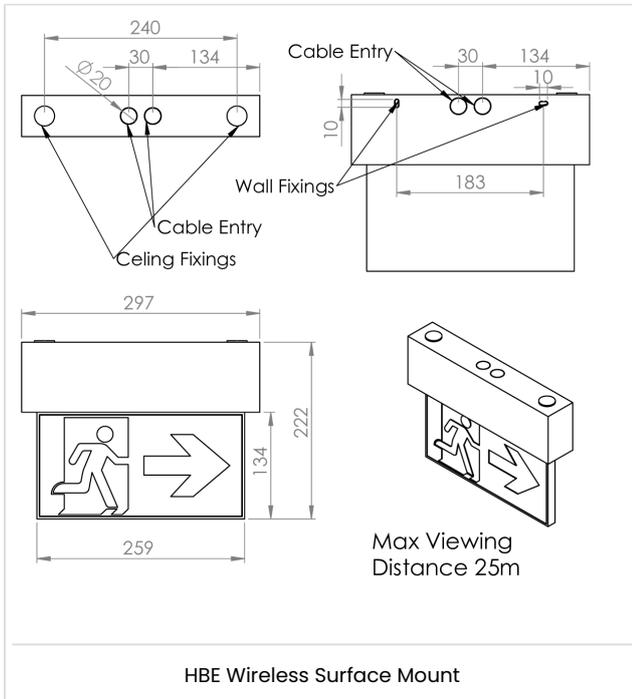
PRODUCT IMAGES





HBE Wireless Surface Mount in black

**TECHNICAL**



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## WARRANTY

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At Dextra our commitment to service has been at the forefront throughout our history spanning more than forty years in the UK lighting market. Our service ethos extends beyond design and delivery, we believe supporting your installation throughout the warranty period is equally crucial, whilst the strength and longevity of Dextra Group provides peace of mind that our warranty will be supported throughout.

The Dextra range is supplied with a five year warranty commencing from the date of delivery. During the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years drivers, emergency modules, wireless modules, sensors and LED circuits will be supplied free of charge to replace defective components, labour and other associated costs are not included.

Certain ranges and components are subject to exemptions:

- ▶ Lithium batteries are provided with a five year warranty. During the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years replacement batteries will be supplied free of charge to replace defective components. Five year warranty became effective as of 03/02/25, Lithium emergency luminaires supplied prior to this date are supported with a three year on site warranty only. Labour and other associated costs are not included. Nickel Metal Hydride and Nickel Cadmium batteries are provided with a one year warranty for parts and labour.
- ▶ Emergency luminaires including AME2, EXI LED, EXI3, HBE3, HBE4, OAT2 LED and Twinspace are supplied with a one year warranty for parts and labour. Lithium variants suffixed with the 5YR part code, the Autotest emergency with the LA3 part code and wireless variants with LA3RC or LSTR part codes are supplied with a five year warranty. For these extended warranty variants for the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years replacement batteries will be supplied free of charge to replace defective components.
- ▶ Protec Micro, PTECF7 Fire Rated Downlights, Serenus and the Opus Sconce are provided with a five year replacement luminaire only warranty. Protec FR Fire Rated Downlights are provided with a 2 year replacement luminaire only warranty.
- ▶ Controls systems such as standalone sensors, switches, marshalling boxes and cabling are provided with a one year warranty for both parts and labour. DALI control systems are provided with a two year warranty for both parts and labour.
- ▶ LEDextra ranges are supplied with a three year parts or replacement luminaire only warranty with the exception of the IMPR RGBW, the Runway RGBW, the MOD RGBW, Tanek RGBW and the DexRing. These five ranges are supplied with our standard five year warranty during which defects within the first three years will be repaired on site and the warranty includes both parts and labour. For the final two years free of charge replacement components only will be supplied to rectify any failures but labour and other associated costs are not included.
- ▶ LEDEX ranges are supplied with a three year replacement luminaire only warranty.
- ▶ The Decorative Pendant ranges, Bebo, Dene, Nova, Fino and Stix are supplied with a 3 year replacement luminaire only warranty.

All warranties are subject to correct use of the product and will be invalidated by misuse, for example incorrect installation, unsuitable environmental conditions or incorrect maintenance. It is the duty of the customer to ensure that all the fault lies with the luminaire prior to requesting replacement parts or site repairs. In the event that no defect is found with the product our costs for attending site will be recharged to the customer and credit

will not be issued against returned products. No consequential losses incurred resulting from any defect with our product will be reimbursed.

Given the nature of LED technology a small percentage of LEDs may fail during the lifetime of a luminaire, this does not cause a reduction in lumen output. As such LED luminaires are only deemed to be faulty for warranty purposes when in excess of ten percent of LEDs have failed in a single luminaire.

On site repair of products under warranty will be undertaken during normal working hours, 9am to 5pm Monday to Friday, and will require unrestricted access to luminaires. Where required Dextra will provide access equipment to carry out repairs at height, should luminaires have been installed in locations where reasonable provision for maintenance access has not been made we reserve the right to supply replacement product only. On site warranty repairs will only be undertaken on the mainland of the UK and Ireland, in all other locations replacement product only will be provided.

**If you require any assistance with regards to our products please contact our Customer Services department on 01747 858100.**

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**ORDER CODES**

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**LUMINAIRE**

Code	Description
HBE4 LED NM3 LSTR	HBE4 LED Suspended, Non Maintained, Reacta-Link Emergency 3 Hour
HBE4 LED NM3 LSTR CM DL	HBE4 LED Ceiling Mount, Non Maintained, Reacta-Link Emergency 3 Hour, Down Legend ISO 7010
HBE4 LED NM3 LSTR CM UL	HBE4 LED Ceiling Mount, Non Maintained, Reacta-Link Emergency 3 Hour, Up Legend ISO 7010
HBE4 LED NM3 LSTR CM DSL	HBE4 LED Ceiling Mount, Non Maintained, Reacta-Link Emergency 3 Hour, Double Sided Left / Right Legend ISO 7010
HBE4 LED NM3 LA3D CM DSL	HBE4 LED Ceiling Mount, Non Maintained, DexNET Emergency 3 Hour, Double Sided Left / Right Legend ISO 7010
HBE4 LED NM3 LA3D CM UL	HBE4 LED Ceiling Mount, Non Maintained, DexNET Emergency 3 Hour, Up Legend ISO 7010
HBE4 LED NM3 LA3D CM DL	HBE4 LED Ceiling Mount, Non Maintained, DexNET Emergency 3 Hour, Down Legend ISO 7010
HBE4 LED NM3 LA3D	HBE4 LED Suspended, Non Maintained, DexNet

\*Suspended variants are supplied complete with all four legend directions. Individual legend directions are supplied with Ceiling Mount variants, please order the appropriate code.

**MISCELLANEOUS**

Code	Description
BL	Black Finish (CM variants only)

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# Installation & Wiring Instructions

## HBE4 LED LSTR CM – Surface Mount 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 blade exit sign. The HBE4 can be either wall mounted or 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.

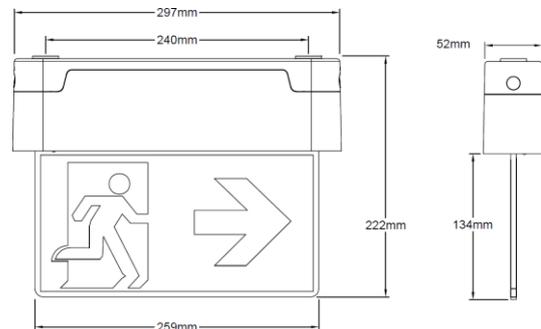
The control gear that powers the HBE4/DA operates the DALI-2 protocol.

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 Basic Charging M *	5.7W 34mA $\lambda = 0.71$
Power Basic Charged NM *	0.2W 11mA $\lambda = 0.07$
Power DALI Charging M *	5.4W 30mA $\lambda = 0.75$
Power DALI Charged NM *	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	0.82Kg

\* 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 CM \*\* Non-Maintained Emergency 3 Hr

\*\* 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 area via the breaker.
2. Take the four parts of the product apart.
3. Install the first fix section to either the wall or the ceiling as required. Bring the mains cable through.
3. Install the mains cables and, where required, the DALI bus cables as shown overleaf.
4. Once permanent power is assured, connect the battery connectors.
5. Fit the light source to the body of the HBE4 tightening the two screws as shown overleaf.
6. Click the body to the first fix part.
7. Fit the legend panel to the body, ensuring that the charge LED meets its viewing hole. This should follow the guidance of BS (EN)-5266.
8. Reinstate power to the fitting.
9. See Testing and Commissioning section.

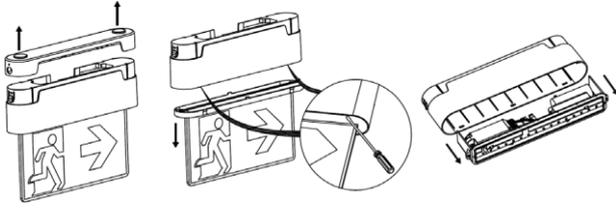
# Installation & Wiring Instructions

## HBE4 LED LSTR CM – Surface Mount Exit Sign

### For use with Reacta-Link Wireless System

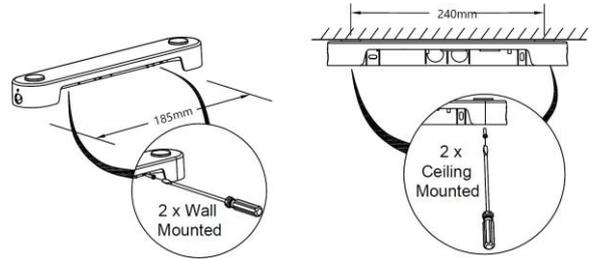
**PLEASE READ** THESE INSTRUCTIONS BEFORE COMMENCING INSTALLATION & LEAVE WITH END USER

Figure one



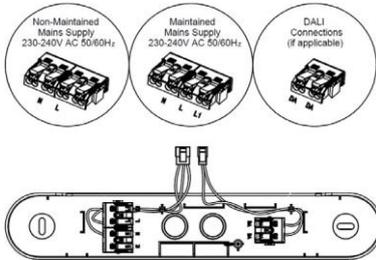
1- Take the fitting apart as shown in the above diagrams

Figure two



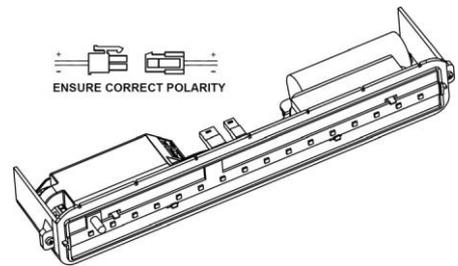
• - Install the first fix section of the HBE4 to either the wall, or the ceiling, as shown.

Figure three



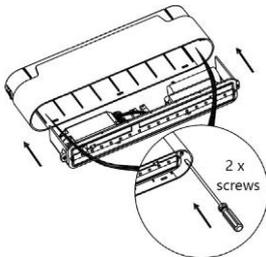
• - Fit mains supply cables to the terminals as shown. Either maintained or non-maintained operation. Connect DALI cables if required. (DALI versions only).

Figure four



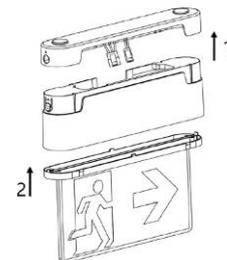
• - Once mains supply is present, connect the battery cable connectors together.

Figure five



• - Fit the gear tray back into the body, tightening the screws as shown.

Figure six



6 - Click the body back into the first fix section, ensuring the connector(s) from the mains/DALI terminal blocks have been connected to the gear tray. Click the legend to the body ensuring it is the correct way round and observing the position of the charge LED.

### 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.

# 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.

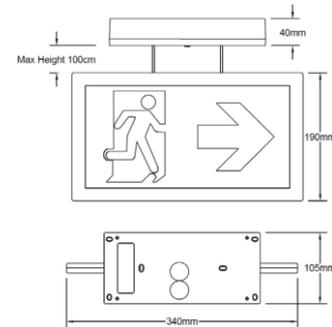
The HBE4 is supplied with a kit of ISO7010 legend vinyls, so you can choose from arrow up, arrow down, arrow left, or arrow right at the point of installation.

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.

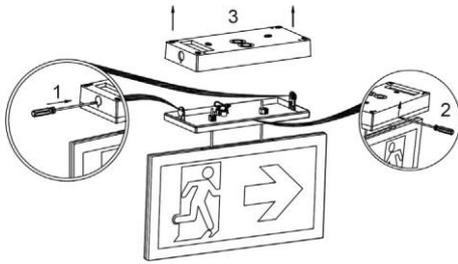
# Installation & Wiring Instructions

## HBE4 LED LSTR – Suspended Exit Sign

### For use with Reacta-Link Wireless System

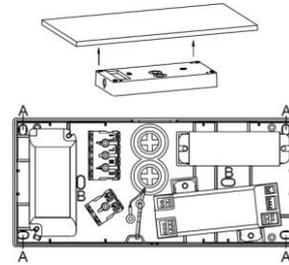
**PLEASE READ** THESE INSTRUCTIONS BEFORE COMMENCING INSTALLATION & LEAVE WITH END USER

Figure one



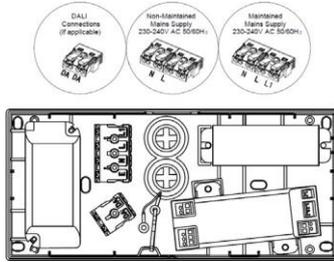
1- Take the fitting apart as shown in the diagrams above, removing the back box from the main body of the exit sign.

Figure two



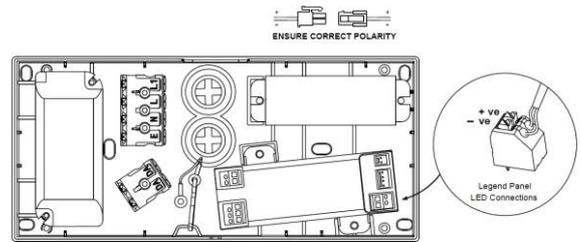
2 - Install the first fix section of the HBE4 to the ceiling, using either fixing points A or B.

Figure three



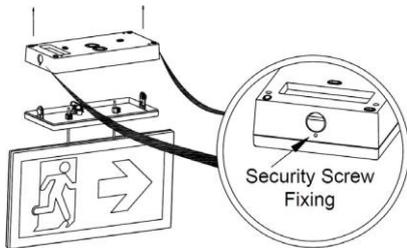
3 - Fit mains supply cables to the terminals as shown. Either maintained or non-maintained as indicated and fit DALI cables if required. (DALI versions only).

Figure four



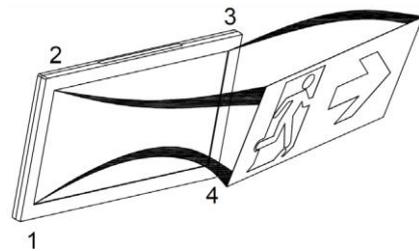
4 - Once mains supply is present, connect the battery cable connectors together and connect the LED leads from the panel to the module, as shown.

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.