

1. Installation Instructions

1.1 Important Notes

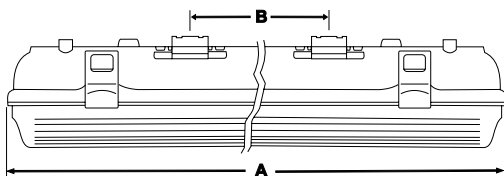
Please read these instructions carefully before installation and keep for future reference.

- Always turn off supplied power to the LED batten before performing installation or maintenance.
- This LED batten must be earthed.
- This LED batten is complete without a ballast.
- Battery ships disconnected to prevent discharge, it must be connected at install.
- After installation, ensure this LED batten is connected to main power at least every 10 days to prevent complete battery discharge.
- If uninstalled for >3 months, connect battery to light, then connect batten to main power to prevent complete battery discharge.
- Models include a monthly self-test discharge/recharge function.
- Drilling into the batten body will void the warranty - this batten should only be mounted by surface mounting clips.
- Installation and wiring must only be performed by a qualified, licensed electrician.
- Please ensure rated voltage and frequency of the batten is compatible with the power supply.
- Clean with soft cotton cloth only, do not use any chemical solvents when cleaning this batten.
- In case of fitting failure, switch off power to the batten and wait for the fitting to cool. Perform steps 2.3 - 2.8 in reverse to take down the fitting.

1.2 Installation Specifications

See table and matching diagram below for mounting information

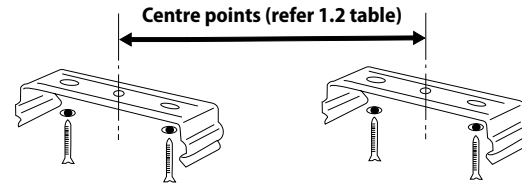
Model	Length (A)	Fix Span (B)	Clips
LEDBT18WSE	670mm	470mm	4
LEDBT36WSE	1280mm	900mm	8



2. Installation Procedure

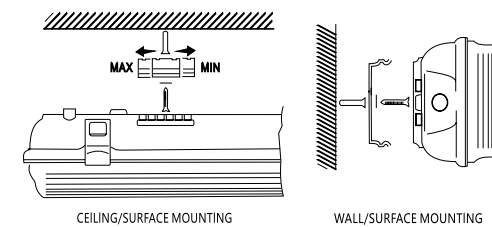
2.1 Mounting Clips

The mounting centre points for the LED batten are located on the included mounting clips. Choose a suitable location and fix the clips using included wall plugs & screws.



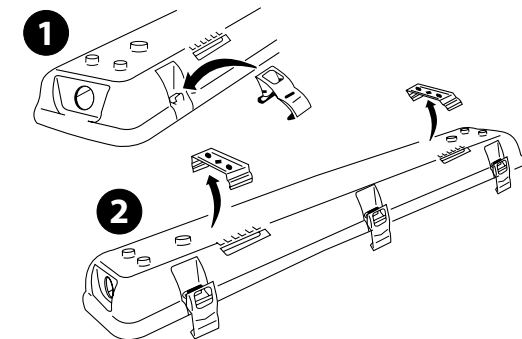
2.3 Ceiling or Wall Mounting

Mounting clips span can be slightly adjusted to fit to different installation tolerances. The light can also be wall mounted.



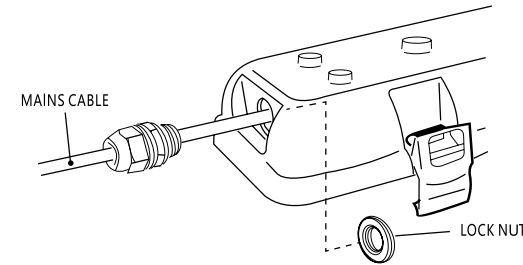
2.4 Lock Toggles

Before fitting the batten to the mounting clips, ensure lock toggles are attached to the body.



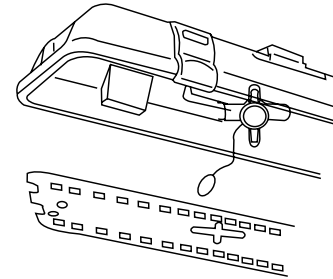
2.5 Running Power Cable

Insert main power supply through the gland then tighten the lock nut to the batten body. Make sure there is sufficient cable to reach the terminal block.



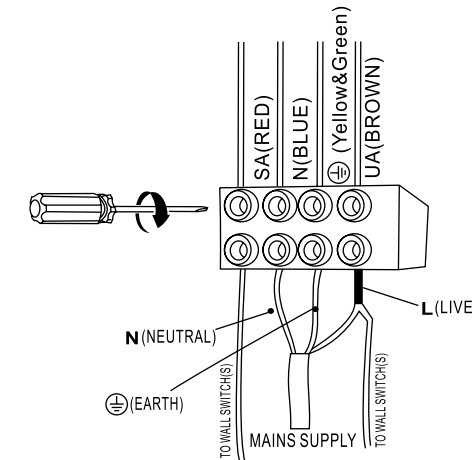
2.6 Array Board Safety Cable

Attach the safety cable to stop the array board from falling; enables hands free use.



2.7 Connect Supply to Terminal Blocks

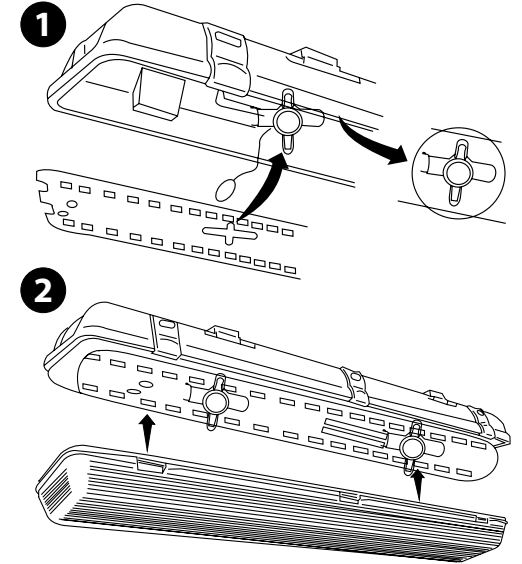
Connect as illustrated, ensuring the cable is secure with no bare wires and correct polarity.



2.8 Connect Battery & Secure Array Board

Before closing and securing the array board, ensure the battery is connected.

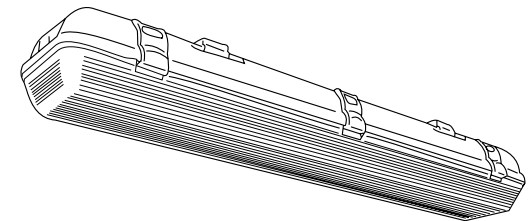
Then, secure the array board with rotating locking clips. Fit the cover to the body, close all lock toggles to complete installation.



2.9 Test & Complete

Switch on main power to test. Should the light flicker on power-on, it may indicate a fully discharged emergency battery.

Should this occur, please allow time for the battery to recharge. Should this continue, please contact your ENSA dealer



Please keep these instructions in a safe place for future reference.

3. Sensor Configuration

Tailor the ENSA Emergency LED Batten to a multitude of environments & applications. Configure detection sensitivity, on-time delay, dimming level and 2-stage dimming control via DIP switches on the unit.



3.1 Detection Area (Sensitivity)

DIP Switches 1 & 2

	DIP Switch		Configuration
	1	2	Max. Detection
I	ON	ON	100% (16m)
II	-	ON	75% (12m)
III	ON	-	50% (8m)
IV	-	-	25% (4m)

Configure the 360° microwave motion sensor sensitivity to tailor the motion detection area of the batten to your exact specifications.

Default setting: 50% (Ø8m max. detection)

3.2 Hold Time (On-time delay)

DIP Switches 3 & 4

	DIP Switch		Configuration
	3	4	On-time Delay
I	ON	ON	5s
II	-	ON	30s
III	ON	-	90s
IV	-	-	180s

Configure the duration that the light stays at maximum brightness after the last detected motion.

Default setting: 90 seconds

3.3 Twilight Ratio (Dimming level)

DIP Switches 5 & 6

	DIP Switch		Configuration
	5	6	Dimming Level
I	ON	ON	20%
II	-	ON	40%
III	ON	-	60%
IV	-	-	75%

Configure the dimmed illumination level after the last detected motion and after the hold time has expired.

Default setting: 20% (of maximum brightness)

3.4 Twilight Time (Dimmed-time delay)

DIP Switches 7 & 8

	DIP Switch		Configuration
	7	8	Dimmed-time Delay
I	ON	ON	0s (instant off, no dim)
II	-	ON	90s
III	ON	-	180s
IV	-	-	∞s (light remains on)

Configure the duration that the light stays at dimmed brightness. It can be set to stay dimmed (never off) or turn off instantly (never dim).

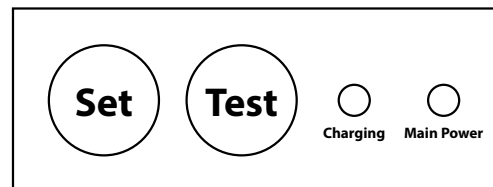
Default setting: ∞s (stays dimmed, never off)

4. Emergency Mode Configuration

The backup battery provided with your ENSA Emergency LED Batten is designed to provide light uptime in the event of an emergency. The battery ships disconnected to prevent battery discharge. See below for default settings:

- **LEDBT18WSE** - 1500mAh NiMH backup battery, set to 6W in emergency (2.4hr uptime)
- **LEDBT36WSE** - 2500mAh NiCd backup battery, set to 10W in emergency (2.4hr uptime)

Below is the configuration panel for the backup battery, located in the middle of the batten.



4.1 Set Button

Configures power output in emergency mode

This button determines the power use of the batten in emergency mode. By default, this is set to achieve approx. 2 hours light uptime. Changing this setting will affect the default light uptime in emergency mode (see model list above). It is recommended not to change this setting.

- Hold SET for 5 seconds to enter emergency wattage configuration mode
- Press SET to cycle through each available emergency power output setting
 - 3.6W -> 6W -> 10W -> 12W -> 15W -> 17W -> 20W (cycle repeats) -> 3.6W -> 6W...
- Release SET for 12 seconds to return light to previous state & set emergency power setting

Note: Setting emergency power output higher than default settings will result in reduced light uptime.

4.2 Test Button

Allows for maintenance testing of backup battery

By pressing and holding TEST, the batten will switch to battery power to simulate emergency lighting, even when main power is available. Release the test button to return the light to main power. Performing regular battery maintenance checks is recommended.

4.3 Charging LED (Red)

Indicates that the backup battery is charging

- LED constant on: Battery on high rate current charge
- LED 1s on then 1s off: Battery on intermittent or trickle charge
- LED 2 flashes then 2s on: At last self-test, forecast battery uptime was less than 90 minutes.

Note: Upon full battery discharge, the batten light may flicker momentarily while recharging.

4.4 Power Supply LED (Green)

Indicates that the batten has main power supply

- LED On: Main power supplied
- LED Off: No main power available