

## Niva II Integrated LED Batten with Emergency and DALI or Microwave Sensor Options

Please read these instructions thoroughly before use and retain for future reference.

### Safety Information

- Before commencing installation or any maintenance, turn off and isolate the circuit to be worked on by removing the fuse or switching the circuit breaker off at the distribution board.
- Installation must be carried out in accordance with national building and wiring regulations. If you are in any doubt about installing this product, please consult a qualified electrician.
- This product is suitable for connection to a 220-240Vac 50-60Hz supply.
- This product is a **Class I** product requiring an Earth connection.
- This product is **IP20** rated for indoor use only.
- If connecting the luminaire to independent sensors or time switches, ensure that the control device does not leak a voltage across the luminaire in the off state. Leaked voltages may accumulate and cause intermittent flashes in the off state.
- When drilling holes take care not to damage existing wiring or pipework.

#### Products Covered:

KBTN30LS3/SCT (/D/S)  
KBTN50LS3/SCT (/D/S)  
KBTN70LS3/SCT (/D/S)  
KBTN20LS4/SCT (/S)  
KBTN30LS4/SCT (/S)  
KBTN40LS4/SCT (/S)

### Installation Information (refer to subsequent sections for DALI, microwave sensor and emergency module options)

- Press the two buttons (A) on the end caps and to release and open the cover.
- Decide on the location of the luminaire and fix to the mounting surface using suitable fixings.
- The luminaire has knock-out cable entries at each end which can be removed, or the supply cable may be fed in from the rear.
- Connect the supply cable to the input terminals (B) as follows:

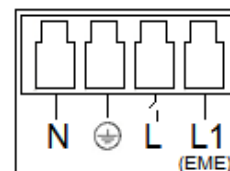
**Brown (L) – Switched Live for Normal Switching Operation**

**Black (L1) – Un-switched Live for Permanent Emergency Module Supply (optional)**

**Blue (N) – Neutral**

**Green/Yellow (⊕) – Earth**

- Ensure that all electrical connections are secure with no loose strands.
- For the non-standard options follow the additional instructions below before continuing.
- Set the **colour temperature** using the DIP switches on the PCB connection board (C) according to the table opposite.
- Taking care not to trap any wires, close the cover.
- Reconnect the power supply.



CCT	WW 3000K	CW 4000K	DL 6000K
DIP			
Switch			

### DALI Dimming

- For DALI dimming, connect the DALI control wires from the DALI control source to the two terminals on the driver (B1) marked **DA** or **DALI**.
- The DALI dimming versions can be set to a lower alternative output wattage from the factor setting.
- Set the DIP switches on the driver according to the table below so the driver current is correct to for the alternative wattage.
- Do not set the driver output current higher than the default.

					Driver DIP Switch Settings for Alternative Wattage			
Luminaire Code	Default Wattage	Default Driver Current	Alternative Wattage	Alternative Driver Current	DIP 1	DIP 2	DIP 3	DIP 4
KBTN30LS3/SCT/D	30W	750mA	20W	550mA	ON	ON	ON	-
KBTN50LS3/SCT/D	50W	1250mA	30W	800mA	-	ON	ON	ON
KBTN70LS3/SCT/D	70W	1400mA	40W	850mA	-	ON	-	-

### Optional Emergency Module

- The optional emergency module (D) provides power in the event of a cut in the supply and must be wired to the un-switched permanent supply through the un-switched Live terminal (L1).
- Open the cover on the battery pack (E) and write the commissioning date on the battery label.
- Connect the battery lead to the emergency module.
- Install the emergency module and battery pack as shown on the diagram below. There are pressed metal tabs, as shown opposite, on the gear tray that bend to hold the emergency module and battery pack in place.
- Connect the emergency module supply cable **Live** and **Neutral** into the secondary terminals (G) as follows:

**Black (L1) – Live**

**Blue (N) – Neutral**

- Connect the emergency module output (H) to the PCB connection board (C).
- A wired LED charging indicator (I) should be supplied with the luminaire. Connect the LED charging indicator (I) to the PCB connection board (C) if not already connected.
- Remove the small rubber plug in the end cap (J) and fit the LED charging indicator (I).



- Stick the Maintained or Non-Maintained emergency luminaire label on the luminaire as appropriate.
- The battery leaves the factory in a charged state but may take up to 24 hours to fully charge for a 3-hour test. Charge for 5 minutes before performing a functional test to ensure there is some charge in the battery.

## Replacing the Battery Pack

- Before connecting or replacing the emergency module battery, turn off and isolate the luminaire by removing the fuse or switching the circuit breaker off at the distribution board.
- Open the luminaire as described above and disconnect the battery pack (E) from the emergency module (D).
- Write the commissioning date on the new battery label.
- Open the cover on the battery pack and replace the battery within.
- Connect the new battery lead to the emergency module.
- Taking care not to trap any wires, close the cover.
- Reconnect the power supply.

## Optional Microwave Sensor

The optional microwave sensor (F) will sense movement and switch the batten on, depending on the daylight sensor setting, and keep it on for the hold time once movement has ceased. The DIP switches are accessible on the gear tray with the diffuser opened.

### Detection Area

DIP switches 1 and 2 control the microwave detection sensitivity. On the highest setting the sensor will detect movement from up to 6m when mounted 3m to 6m high.

	1	2	
ON	ON	ON	100%
	-	ON	75%
	ON	-	50%
	-	-	25%

### Hold Time

DIP switches 3, 4 and 5 control the time the luminaire can be set to stay on after motion is no longer detected. It is recommended that the shortest time setting be applied for adjusting the detection area.

	3	4	5	
ON	ON	ON	ON	5 Sec
	-	ON	ON	30 Sec
	ON	-	ON	90 Sec
	-	-	ON	3 Min
	ON	ON	-	20 Min
	-	-	-	30 Min

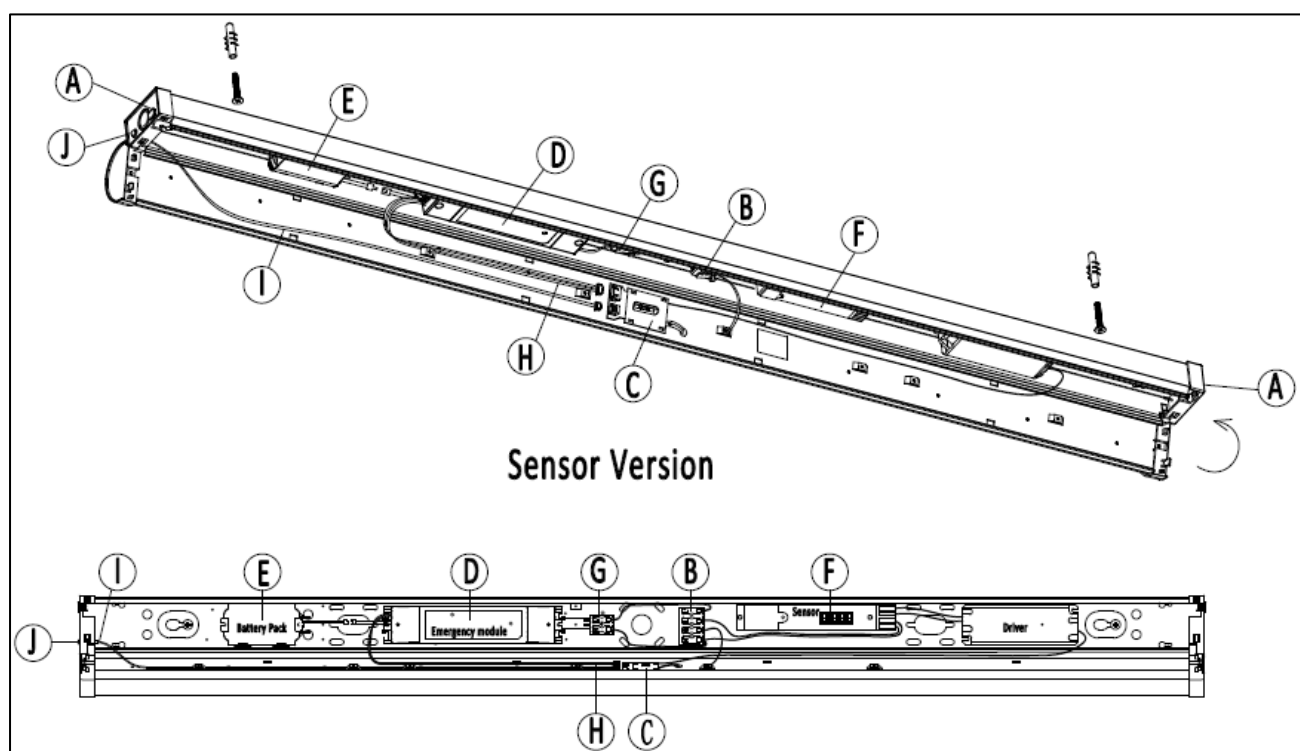
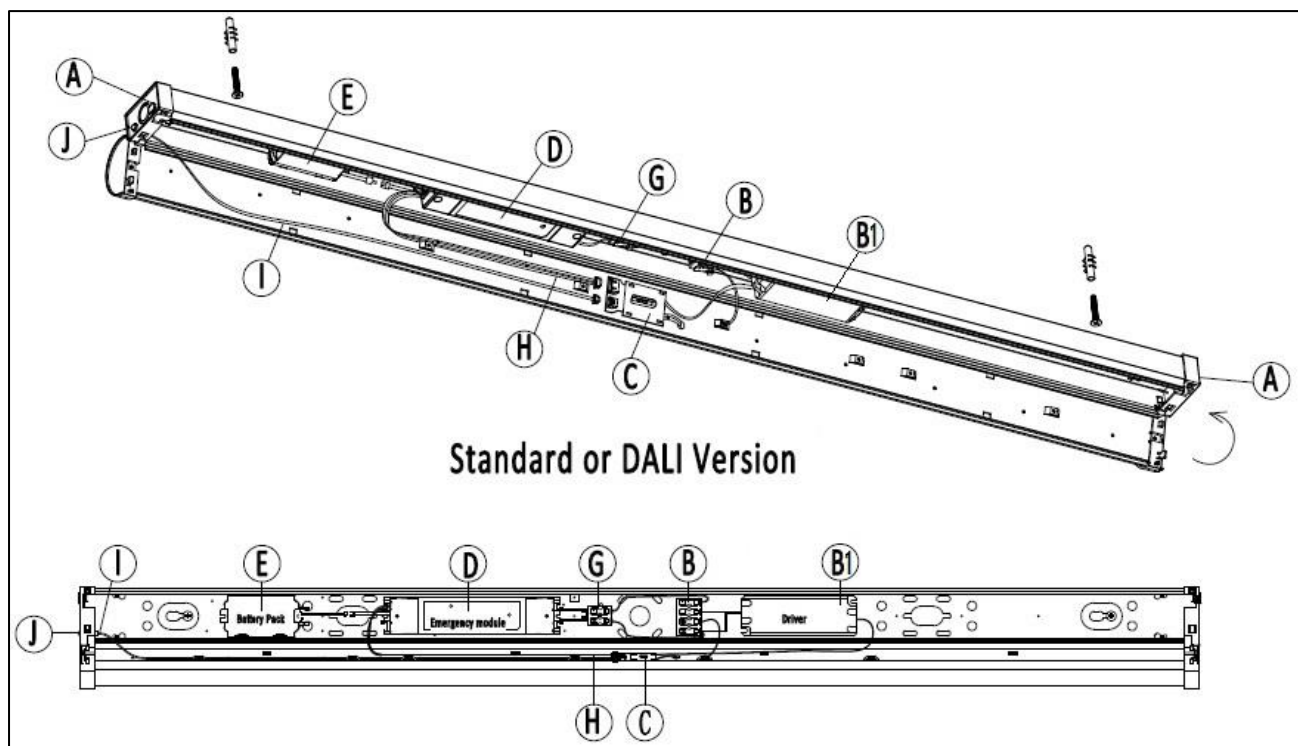
### Daylight Sensor

DIP switches 6, 7 and 8 control the daylight threshold. If the ambient light level is above this threshold the sensor will not switch the luminaire on. 5 lux is dark while 25 lux is twilight and 50 lux is overcast. If set to disabled, the luminaire will switch on whatever the light level.

	6	7	8	
ON	ON	ON	ON	2 Lux
	ON	ON	-	10 Lux
	-	ON	-	25 Lux
	ON	-	-	50 Lux
	-	-	-	Disabled

We hereby declare that this product meets the requirements of the **EU Radio Equipment Directive 2014/53/EU**. Declaration is issued under the sole responsibility of the manufacturer. Conforms to:

EN 300 440	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
EN 301 489-1	Electromagnetic compatibility and Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Common technical requirements	Part 1:
EN 301 489-3	Electromagnetic compatibility and Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz	Part 3:
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
EN 61547	Equipment for general lighting purposes. EMC immunity requirements	
EN 61000-3-2	Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current = 16 A per phase)	
EN 61000-3-3	Electromagnetic compatibility (EMC). Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current = 16 A per phase and not subject to conditional connection	
EN 62479	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	



The Waste Electrical & Electronic Equipment Regulations (WEEE) require that products bearing this symbol must not be disposed of with household waste as they may contain substances harmful to the environment. The Local Authority can provide advice on recycling.