

INSTALLATION INSTRUCTION

for Integral Lightspan+ LED Batten Range

(Standard, Sensor & Emergency Options)

5 Year Warranty

Part	Description
ILBTC120	LIGHTSPAN+ T8 BATTEN 4FT POWER & CCT ADJUSTABLE - 22/27/34/40W & 3000/4000/6300K, 120 BEAM LINKABLE NON-DIMM
ILBTC121	LIGHTSPAN+ T8 BATTEN 4FT EM3HR, POWER & CCT ADJUSTABLE - 22/27/34/40W & 3000/4000/6300K, 120 BEAM LINKABLE NON-DIMM
ILBTC122	LIGHTSPAN+ T8 BATTEN 4FT MW SENSOR, POWER & CCT ADJUSTABLE - 22/27/34/40W & 3000/4000/6300K, 120 BEAM LINKABLE NON-DIMM
ILBTC123	LIGHTSPAN+ T8 BATTEN 4FT EM3HR & MW SENSOR, POWER & CCT ADJUSTABLE - 22/27/34/40W & 3000/4000/6300K, 120 BEAM LINKABLE NON-DIMM
ILBTC130	LIGHTSPAN+ T8 BATTEN 5FT, POWER & CCT ADJUSTABLE - 30/35/42/52W & 3000/4000/6300K, 120 BEAM LINKABLE NON-DIMM
ILBTC131	LIGHTSPAN+ T8 BATTEN 5FT EM3HR, POWER & CCT ADJUSTABLE - 30/35/42/52W & 3000/4000/6300K, 120 BEAM LINKABLE NON-DIMM
ILBTC132	LIGHTSPAN+ T8 BATTEN 5FT MW SENSOR, POWER & CCT ADJUSTABLE - 30/35/42/52W & 3000/4000/6300K, 120 BEAM LINKABLE NON-DIMM
ILBTC133	LIGHTSPAN+ T8 BATTEN 5FT EM3HR & MW SENSOR, POWER & CCT ADJUSTABLE - 30/35/42/52W & 3000/4000/6300K, 120 BEAM LINKABLE NON-DIMM
ILBTC140	LIGHTSPAN+ T8 BATTEN 6FT, POWER & CCT ADJUSTABLE - 36/42/50/63W & 3000/4000/6300K, 120 BEAM LINKABLE NON-DIMM
ILBTC141	LIGHTSPAN+ T8 BATTEN 6FT EM3HR, POWER & CCT ADJUSTABLE - 36/42/50/63W & 3000/4000/6300K, 120 BEAM LINKABLE NON-DIMM
ILBTC142	LIGHTSPAN+ T8 BATTEN 6FT MW SENSOR, POWER & CCT ADJUSTABLE - 35/42/50/63W & 3000/4000/6300K, 120 BEAM LINKABLE NON-DIMM
ILBTC143	LIGHTSPAN+ T8 BATTEN 6FT EM3HR & MW SENSOR, POWER & CCT ADJUSTABLE - 35/42/50/63W & 3000/4000/6300K, 120 BEAM LINKABLE NON-DIMM

Thank you for purchasing and Integral Led product. When installed correctly this unit will provide years of service with no lamp changes required. For support or warranty information please visit www.integral-led.com/warranty. Always turn off power at the distribution unit before any maintenance or installation. Please ensure the power cannot be re-connected inadvertently.

General Safety Instructions

- This luminaire must be installed by a qualified electrician in accordance with the instructions provided and in compliance with recognised electrical and safety regulations relevant to the country it is being installed.
- This is a Class I luminaire. Earth connection is required.
- The input voltage of this luminaire is 200-240V~ 50/60Hz
- This luminaire is suitable for surface, pendant, conduit and BESA box mountings. Adequate for installation on surfaces with normal flammability e.g. wood, masonry. Before making the fixing hole(s), check that there are no obstructions hidden beneath the mounting surface, such as pipes or cables. It is not suitable for use on highly flammable surfaces or in flammable atmosphere.
- This luminaire is not suitable for dimming.
- No user serviceable parts.
- Ensure mains supply is isolated before starting any work.
- Operating Temperature -20°C to +45°C. Do not exceed.
- Keep away from strong electromagnetic radiation sources.
- Should the unit malfunction, return to distributor or reseller. No user serviceable parts inside. Do not disassemble or attempt to repair the luminaire outside of the installation guidelines
- Do not install or use the luminaire if the housing/diffuser is found to be broken.

DIP-switch & output current / power

4FT ILBTC12x					5FT ILBTC13x					6FT ILBTC14x				
Power (W)	Output (rated/ma)	1	2	3	Power (W)	Output (rated/ma)	1	2	3	Power (W)	Output (rated/ma)	1	2	3
22	200	--	--	ON	30	200	--	--	ON	36	200	--	--	ON
27	250	--	ON	--	35	250	--	ON	--	42	250	--	ON	--
34	300	ON	--	--	42	300	ON	--	--	50	300	ON	--	--
40	350	--	--	--	52	350	--	--	--	63	350	--	--	--

Emergency Operation

The emergency battens can be operated in maintained or non-maintained mode.

- The luminaire delivers 230 lumens in Emergency mode.
- Ensure the emergency battery is connected to the connector on the emergency driver.
- Ensure the status LED and manual test button connector are connected to the emergency driver.

For maintained operation:

- Connect the Live cable (Brown) to terminal (L).
- Connect the Switch Live cable to terminal (L1).

For non-maintained operation:

- Connect the Live cable (Brown) to terminal (L).
- Leave terminal (L1) disconnected.
- When powered on, the green LED indicator will illuminate indicating that the battery is being charged.
- To check that the emergency function is working, press the red test button at any time and the batten should illuminate in emergency mode.
- On failure of the permanent mains supply the fitting will switch automatically from battery charging to battery discharge powering the LED batten.
- This luminaire is designed to provide 3hrs of emergency light following a power failure. Please allow a full 24 hour charge before carrying a 3 hour test and mark the installation date on the LED batten label.
- This luminaire contains a 6.4V V 1500mAh Li-ion battery. For replacement please contact Integral-LED.com
- Please find Testing Schedule log at the end of this installation guide.

Sensor Operation

Lightspan battens are fitted with an optional sensor, this turns the batten on when the light level reaches the specified level. Settings are made by setting dip switches on the sensor which is located inside the body of the fitting, please open the fittings as per the instructions above and set the dip switches in line with the table below, thank you.

Features:

- On-Off function
- Stand-by power ≤ 0.5W
- Slim design
- Small sensor head can reduce the shadow of the light
- Detection area, hold time and daylight threshold can be precisely set by DIP switch

Sensor Specification

Input	Input Voltage	198-264V AC 50Hz
	Rated Input Voltage	220-240V AC 50Hz
	Stand-by Power	≤ 0.5W
Output	Load Power	250W (Inductive) 500W Resistive)
	Hold Time	5s/30s/90s/3min/20min/30min
Sensor Parameters	Sensing Range	100%/75%/50%/25%
	Daylight Sensor	Disable/50Lux/30Lux/10Lux/2Lux
	Mounting Height	Ceiling Mounting:3-6m
	Detection Area	Walking 0.5-1m/s keep walking≥2m walk & stop≥5m
Wireless Parameters	Operating frequency	5.8 GHz ±75 MHz
	Dimming control	ON/OFF
	Operating temperature	-25°C - +60°C
Operating Environment	Safety & EMC	EN55015
	Certificate requirement	EMC TUV
	Wiring method	Push terminal (4)

Installation Instructions

- Ensure the mains power supply is isolated.
- Determine the installation method: surface, BESA box, pendant or conduit mounting. Make sure the fixing devices used are adequate for the substrate where the luminaire will be fixed.
- Press the lateral button of the luminaire to release the lens, which will swing and be hanging by its hinge (See Fig 1).

For Surface Mounting (ceiling and walls):

- Mark the fixing points on the substrate, aligning the cable adequately in one of the existing entries.
- Pass the cable through the entry.
- Fix the luminaire to the substrate using adequate fixing devices, so the luminaire body is securely attached to the substrate.

For BESA Box Mounting (ceiling and walls):

- Using 1 of the 3 BESA box entries, aligning the cable adequately in one of the existing entries.
- Pass the cable through the entry.
- Fix the luminaire to the BESA box using adequate fixing devices, so the luminaire body is securely attached to the substrate.
- If needed, use additional fixing points directly to the substrate using adequate fixing devices, so the luminaire body is securely attached to the substrate.

For Pendant Mounting:

- Using the Accessory ILBTCSK058, fix it adequately to the substrate.
- Fix the other extreme to the luminaire body.
- Adjust the luminaire height to the final position.

For Conduit Mounting - Lateral:

- Knock the plastic entries to be used.
- Fix the luminaire to the substrate as indicated in Surface Mounting, aligning the conduit(s) to the entry to be used.
- Fix the conduit to the luminaire.

For Conduit Mounting - Upper Entry:

- Fix the luminaire to conduit using the upper central entry.
- Use adequate means to fix the luminaire to the conduit so it can be securely fastened.
- Is recommended to use an additional safety wire (not supplied) from an adequate position on luminaire to another fixing point.

After the luminaire body is fixed, connect the mains supply cable to the terminals, paying attention to the cable polarity: L – Live (Brown), N – Neutral (Blue), – Earth (Yellow/Green) – See Fig 2. For Emergency versions, additionally to L, N and Earth, connect the L1 – Switch Live cable – See Fig 3.

The terminal supplied allows Loop-in / Loop-out wiring. If using this feature, maximum Wattage on a single circuit is 650W. Swing the lens and gently press both ends against the luminaire body, until it clicks.

Fig 1.

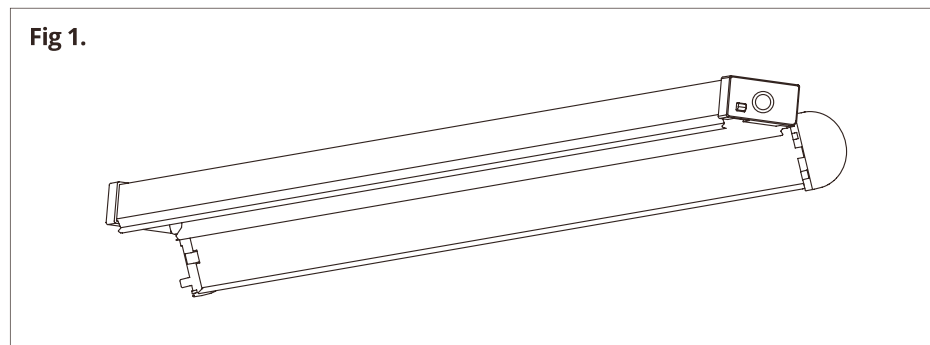


Fig 2.

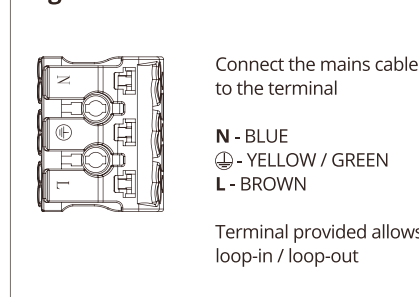
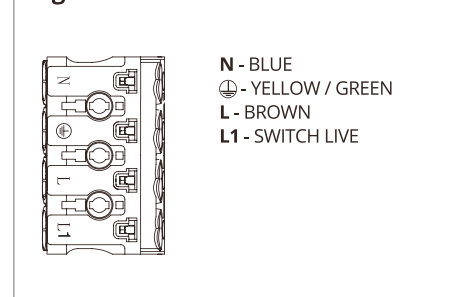


Fig 3.



Others	IP rating	IP20(Built-in)
	Protection Class	Class II
	Installation Size	168*21*28mm
	Packaging requirement	Clapboard +Outer Carton (K=A)
	Life	50000h

Detection Area

Range	Dip Switch 1	Dip Switch 2
100%	ON	ON
75%	ON	OFF
50%	OFF	ON
25%	OFF	OFF

Hold Time

Time	Dip Switch 3	Dip Switch 4	Dip Switch 5
5 Seconds	ON	ON	ON
30 Seconds	ON	ON	OFF
1 Minute	ON	OFF	ON
3 Minutes	ON	OFF	OFF
5 Minutes	OFF	ON	ON
10 Minutes	OFF	ON	OFF
20 Minutes	OFF	OFF	ON
30 Minutes	OFF	OFF	OFF

Daylight Sensor

Light Level	Dip Switch 6	Dip Switch 7	Dip Switch 8
2 LUX	ON	ON	ON
10 LUX	ON	ON	OFF
25 LUX	OFF	ON	OFF
50 LUX	ON	OFF	OFF
DISABLE	OFF	OFF	OFF

Warranty

This unit carries a five year warranty from date of purchase, providing it has been installed correctly and not modified in any way. Should a fault occur please contact the original point of purchase.

Important Notes

- The luminaire must be operated within the temperature range defined and avoiding extreme humidity.
- Operation must be within rated voltage.
- Keep away from strong electromagnetic radiation sources and protect from lightning strike.
- Should the unit malfunction, please return it to the distributor or reseller, never attempt repair yourself.
- Do not install the luminaire if any part is broken. Do not apply direct pressure to the front lens.
- The luminaire must be installed by a qualified electrician.
- The luminaire should be positioned away from heat, liquid and vibration. Ensure no contact with any corrosive chemicals.
- The luminaire should be mounted in free air and operated at an ambient temperature of 30 degrees.
- Never cover the luminaire with any covers or insulation materials.
- The luminaire should be positioned at least 1m away from radios as this may affect the signal reception. IP20 rated protection.