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Arcus II LED Low Bay Installation

These instructions apply to:
KLBA100L1-W65
KLBA100L1-P65
KLBA100L1/E-P65
KLBA150L1-W65
KLBA150L1/E-W65
KLBA150L1-P65
KLBA150L1/E-P65
KLBA200L1-W65
KLBA200L1/E-W65

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

The Kosnic LED low bay luminaires are primarily designed for surface mounting but have fixing points for conduit boxes and cable tray U-bars.

Safety Information

- 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.
- Before commencing installation or maintenance, turn off and isolate the circuit(s) to be worked on by removing the fuse or switching the circuit breaker off at the distribution board.
- The LED module light source contained in this luminaire shall only be replaced by the manufacturer, service agent or a similar qualified person. **Dangerous voltage may be accessible with the diffuser removed.**
- 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.

Installation Information

- Loosen the screw at the side of the mounting plate (A) to open the luminaire and then fix the mounting plate in place.
- Feed the supply cable through one of the cable entries (B) and, if necessary, use a cable gland to secure.
- Connect the supply cable to the terminals (C) within the mounting plate as follows:
  Brown – Switched Live (L) for Normal Switching Operation
  Brown – Un-switched Live (L1) for Permanent Emergency Module Supply (Optional)
  Blue – Neutral (N)
  Green/Yellow – Earth (⏚) – Earth
- Ensure that all electrical connections are tight with no loose strands.
- Connect the cable between the main body and the mounting plate (D)
- Fit the main body to the mounting plate and tighten the screw on the side (A).
- Reconnect the power supply.

Emergency Module

- If the version with the emergency module (E) is being used the following instructions also apply and should be carried out before reconnecting the supply.
- The emergency module 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).
- Write the commissioning date on the battery label (F).
- Connect the battery lead to the emergency module (G).
- 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

- Loosen the screw at the side of the mounting plate (A) to open the luminaire.
- Disconnect (G) the battery pack (F) from the emergency module (E).
- Write the commissioning date on the new battery label.
- Unscrew the old battery pack and replace.
- Connect the new battery pack lead to the emergency module (G).
- Fit the main body to the mounting plate and tighten the screw on the side (A).
- Reconnect the power supply.

Optional Microwave Motion Sensor (KBTNLS1-MWS2)

Detection Range	Max 12 m radius at 6m height (50% / 100% settings)
Detection Angle	360 °
Hold Time	8 sec / 30 sec / 3 min / 30 min
Stand by Period	0 sec / 30 sec / 3 min / 30 min
Ambient Light Thresholds at Sensor	5 lux / 15 lux / 50 lux / Disabled
Corridor Function	Yes (25% / 50%)
Standby Power	≤ 1.0 W
HF System	5.8 GHz

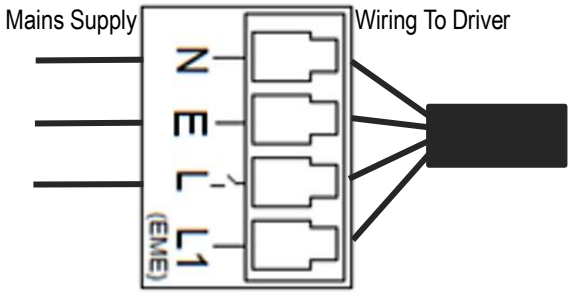
Sensor Output	< 0.5 mW

- Loosen the screw at the side of the mounting plate (A) to open the luminaire.
- Plug the cable (H) from the microwave sensor (I) into the socket (J) as shown on the diagram.
- Refer to sensor instructions for DIP switch settings.
- **Install the microwave sensor as shown in the diagrams with the DIP switch side downward.**
- Fit the main body to the mounting plate and tighten the screw on the side (A).
- Reconnect the power supply.
- After a period of initialisation, the sensor should begin to operate.

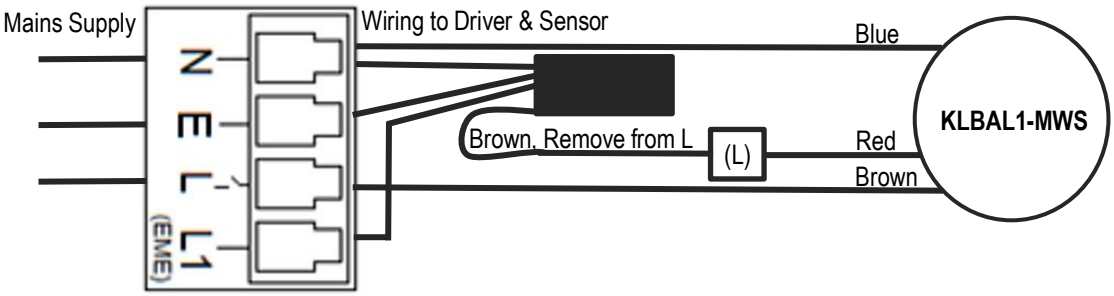
Optional Microwave Motion Sensor with remote control (KLBAL1-MWS)

Detection Range	Max 12 m radius at 6m height (25 / 50 / 75 / 100% settings)
Detection Angle	360 °
Hold Time	5 sec / 30 sec / 1 min / 3 min / 5 min /10 min /20 min /30 min
Ambient Light Thresholds at Sensor	5lux/15lux/30lux/50lux/100lux/150lux/Disable
Corridor Function	No
Standby Power	≤ 1.0 W
HF System	5.8 GHz
Sensor Output	< 0.5 mW

- Loosen the screw at the side of the mounting plate (A) to open the luminaire.
- Select suitable 20mm conduit / gland entry for position of sensor (K) Use extension tube if required.
- Ensure 20mm nut is tightened following positioning of sensor.
- The connections at terminal block (C) will require re-configuring as shown using an additional suitably rated connection block (L):



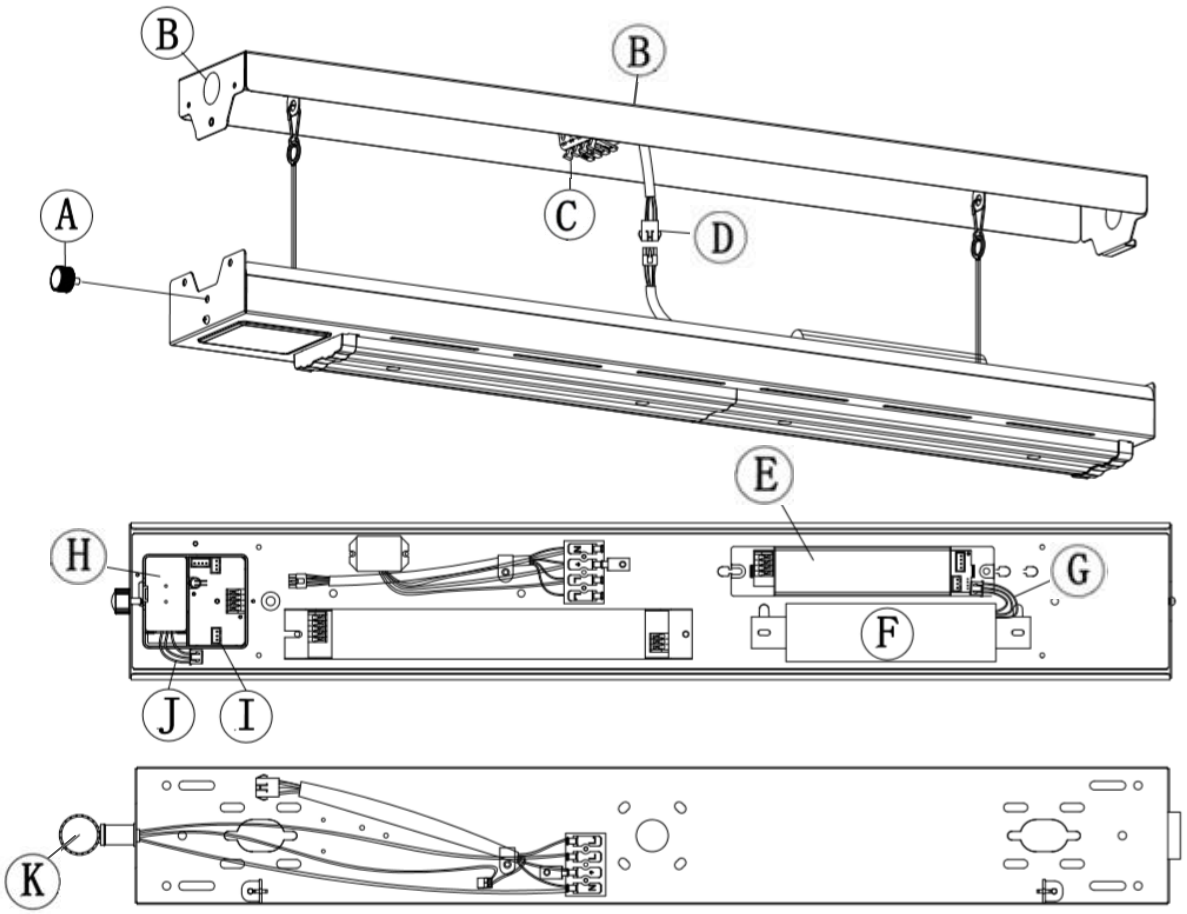
As Supplied



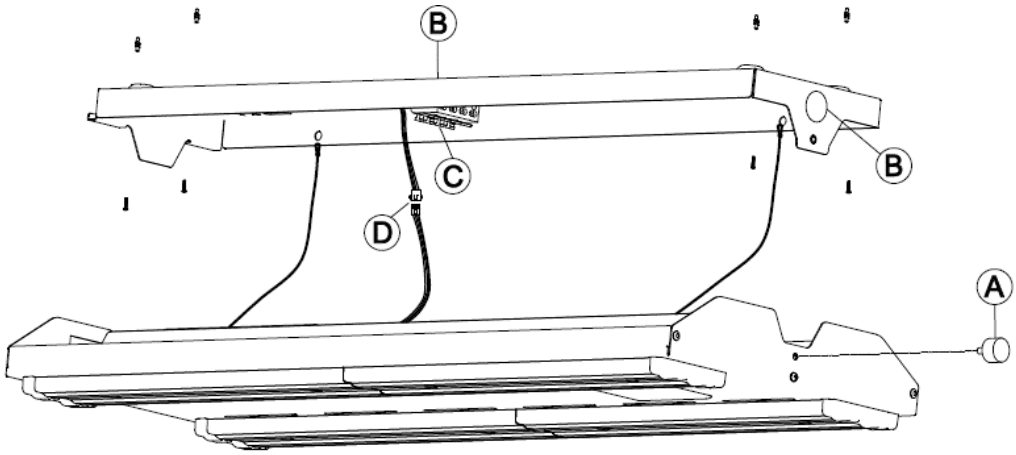
With KLBAL-MWS

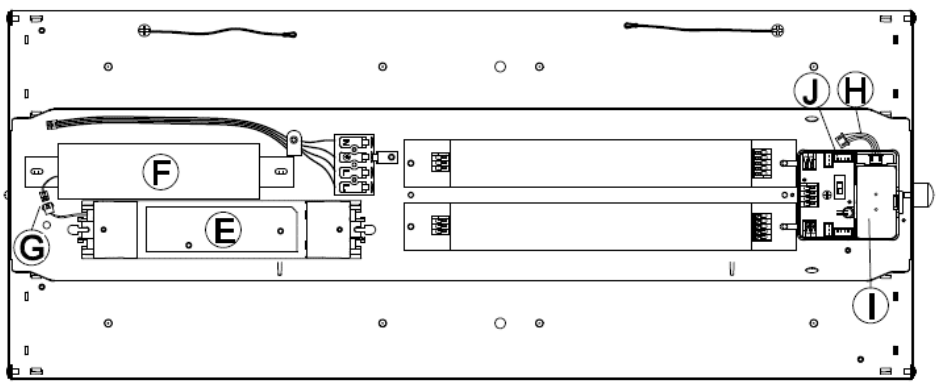
- Refer to sensor instructions for adjusting settings via remote control.
- Re-fit the main body to the mounting plate and tighten the screw on the side (A).
- Reconnect the power supply.
- After a period of initialisation, the sensor should begin to operate.

100W

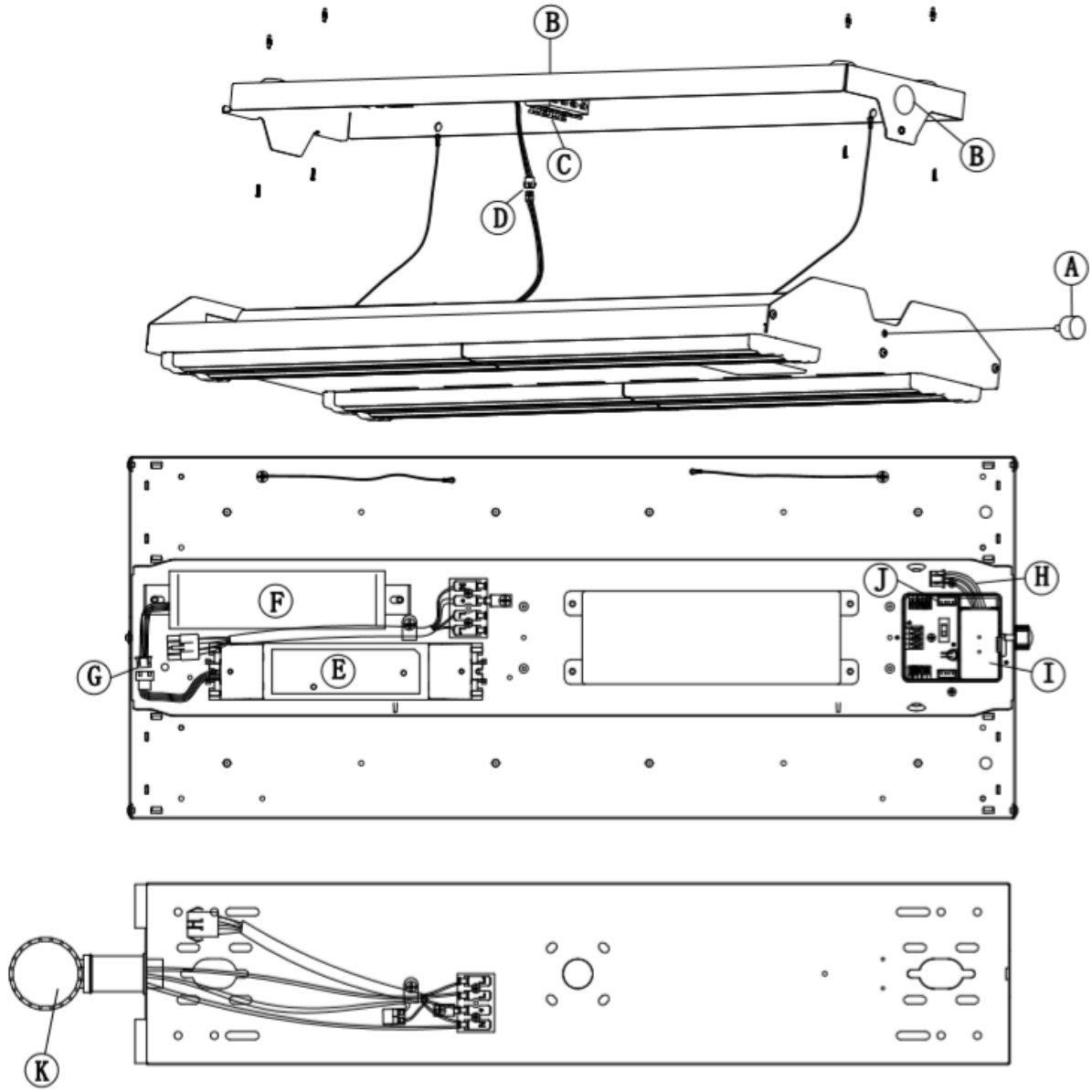


150W





200W



We hereby declare that this product meets the requirements of the **EU Radio Equipment Directive 2014/53/EU & UK Radio Equipment Regulations 2017**. 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; Part 1: Common technical requirements
EN 301 489-3	Electromagnetic compatibility and Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz
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.