

# UNIVERSAL Dimmer

## (Series U)

### Recommended for...

- \* Wire Wound Transformers. (LE mode)
- \* OR Electronic Transformers (TE mode) driving Halogens or LEDs.
- \* 250volt Incandescent Lighting. (LE mode) downlights only (cap uppermost)
- \* General Purpose Applications.



### Solutions for You...

- \* **ALL Loads** Made to control ALL lighting up to 400va that requires either Leading or Trailing Edge.
- \* **Extended Lamp Life** Pre-Heat and Soft Start reduces the start current and eliminates thermal shock.
- \* **FULL means FULL** Brighter lights, greater heater output and increased efficiency achieved by active power factor sensing. 240volts in and up to 237volts out, 99% efficient.
- \* **Personalised Control** All Dimmers have minimum and maximum trimmers; you can set the output range for the user.
- \* **Thermal Safety PLUS** Temperature compensation built in and backed by a Thermal Fuse for guaranteed safety.
- \* **Easy Installation** Clicks straight into PDL, HPM and Clipsal flush plates, with adaptors supplied.
- \* **New Zealand** Designed, Manufactured and Technically supported.

### Available in one model...

**MODEL** K004U KBC  
**Va Rating** 400va Black Kit

Note: This unit is also available in MultiWay (2way) configuration.

**Installation**

**Step 1 - adaptors**

- PDL:
- Click the adaptor (slot down) into flush plate.
  - Fit the KIWI to the adaptor with locknut.
  - Fit the locknut cover, "stop" side up.
- HPM and Clipsal:
- Fit the adaptor to the KIWI with locknut.
  - Fit the locknut cover, "stop" side up.
  - Click the unit (leads down) into the flush plate.

**Step 2 - plate**

- Fit the face plate cover. (if required)
- Slide the knob onto the shaft.

**Step 3 - electrical**

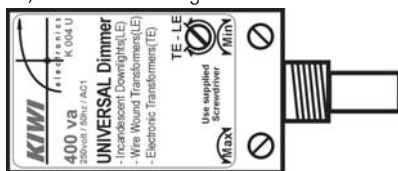
- Connection is by way of the two red wires.
- Connect one to live and the other to load.
- Turn on at the isolator.

The KIWI will Soft Start to where the rotary knob has been set. The knob has a turning angle of 270 degrees and retains memory of where it was last set.

**Extra Settings.**

**Important:**

- When adjusting these settings, always use the screwdriver supplied.
- Note, the default settings are illustrated below.



**Minimum**

Turn the minimum trimmer clockwise to raise the minimum light level the knob can be turned to.

Note: The minimum level cannot be adjusted above the maximum setting.

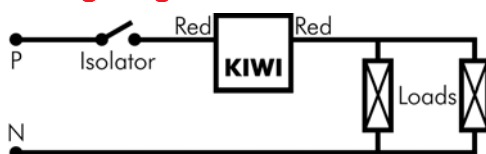
**Maximum**

Turn the maximum trimmer anti-clockwise to lower the maximum light level the knob can be turned to.

**Mode Switch Setting (LE and TE)**

Factory setting is Leading Edge (LE) mode. If you are using electronic transformers we recommend the unit is changed into Trailing Edge (TE) mode. Pierce the circle on the product sticker and turn the screw clockwise to change into Trailing Edge mode.

**Wiring Diagram**



Connect multiple loads in parallel.

**Warnings**

- ALWAYS ensure there is adequate ventilation. (ie. air movement across the heatsink.)
- Output from this unit will decrease if the thermal protection level is exceeded. In this event, increase ventilation.
- This unit is fitted with a thermal fuse. Exceeding a continuous current of 16amps or failing to supply adequate ventilation it will permanently open circuit.
- Do not exceed the specified Va Rating.
- The KIWI controller has been designed to be connected in series with the load. Do not connect between phase and neutral.

**Product Specifications**

- Input voltage 250volt
  - Output voltage 0% to 98% of input
  - Frequency 50hz
  - Peak current 60amp - K004U
  - Load rating Resistive (LE)  
Inductive (LE)  
Electronic Transformers (TE)
  - Switching type Leading Edge or  
Trailing Edge (Selectable)
  - Max per flush box 3 x K004U  
(Ensure mounting method promotes air flow.)
  - Ambient temp 25°C
  - Thermal Fuse 16amp/110°C max
  - Thermal Protection Activated above 70°C
  - Knob Rotation 270° with memory
  - EMC/RFI approval CISPR15
  - Designed to AS3100
- Note: Specifications may change without notice.

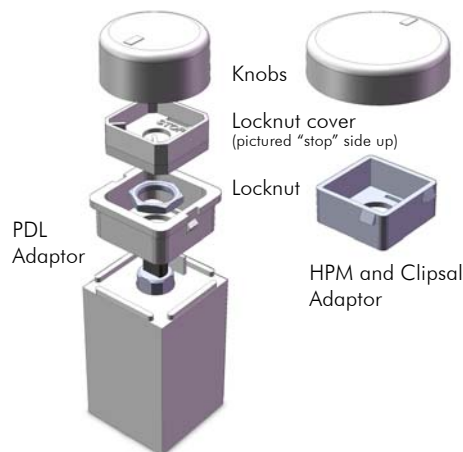
**Dimensions**



Model K004U

Note: Dimensions in millimetres (mm).

**Parts Assembly**



**Mounting**



Recommended mountings for multipule units.

**Manufactured by: KIWI Electronic Design Ltd**

**Freephone:** 0800 820 821

**Phone:** (07)348 6346

**Fax:** (07)348 6347

**Email:** contact@kiwielectronics.co.nz

**Web:** www.kiwielectronics.co.nz