

LED UNIVERSAL Dimmer



Designed, Manufactured, offered to you since 1994 Mt. Maunganui based

KIWI Universal Dimmer recommended for...

- * LED Drivers
- * Mains rated LEDs
- * Compact Fluorescent
- * Electronic Transformers



Solutions for You...

- * **ALL LEDs!** Made to dim all LEDs 500va, 750va and 1000va.
- * **Dims to ZERO** Dims all LEDs to ZERO.
- * **Fits ALL Plates** Clicks straight into PDL, HPM and Clipsal flush plates, with adaptors supplied.
- * **Low current device** Keeps working on low power loads, down to 5watts or less (as needed with LEDs and compact fluorescents).
- * **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.
- * **Extended Lamp Life** Pre-Heat and Soft Start reduces the start current and eliminates thermal shock.
- * **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.
- * **New Zealand** Owned, designed, manufactured and technically supported in Mount Maunganui.

U Series available in models...

MODEL	K005U	K007U	K010U
Va Rating	500va	750va	1000va

Also available in MultiWay (push button) configuration.



Black Conversion Kits available model KBC.

Installation

Step 1 - adaptors

- PDL:**
- **600series** fit the adaptor into the flush plate. Then fit the KIWI to the adaptor with locknut.
 - **Iconic** fit the adaptor to the KIWI with locknut. Then fit the unit into the flush plate.
 - For **600 and Iconic** fit the locknut cover "stop" side up.
 - **Iconic only** fit the shaft extension to the shaft.

HPM and Clipsal:

- Fit the adaptor to the KIWI with locknut.
- Fit the locknut cover, "stop" side up.
- Click the unit into the flush plate.

Step 2 - plate

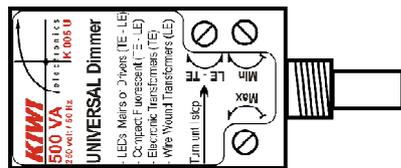
- Fit the face plate cover (if required).
- Slide the knob onto the shaft.

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.
- **CHECK the current does NOT exceed the PEAK.**

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



Minimum: Turn the minimum trimmer clockwise to raise the minimum light level the knob can be turned down to. The minimum level cannot be adjusted above the maximum. Turn up until lights are stable and operate as desired.

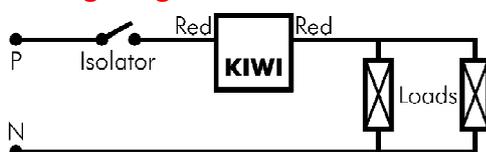
Maximum: Turn the maximum trimmer anti-clockwise to lower the maximum light level the knob can be turned to.

Mode Switch Setting (BOTH TE and LE)

To change from Trailing Edge (TE) to Leading Edge (LE), rotate mode changing switch Anti Clockwise until it meets the stopper for LE and Clockwise for TE.

Note: the default settings are illustrated above.

Wiring Diagram



Connect multiple loads in parallel.

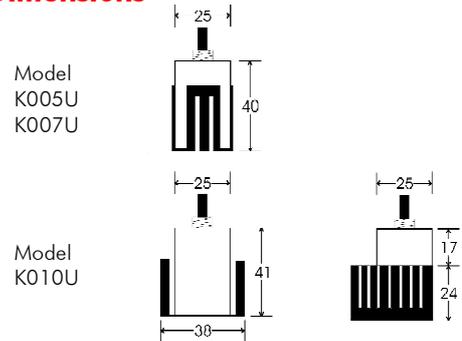
Warnings

- 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 Volt Amp (va) Rating.
- The KIWI UNIVERSAL Dimmer has been designed to be connected in series with the load. Do not connect between phase and neutral.

Product Specifications

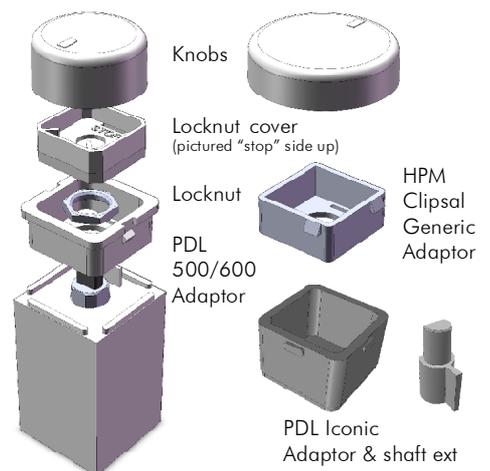
- Input voltage 250volt
 - Output voltage 0% to 99% of input
 - Frequency 50/60hz
 - Peak current K005U - 4A
K007U - 6A
K010U - 8A
 - Load rating Inductive (LE)
Capacitive (TE)
 - Switching type Trailing Edge or
Leading Edge (Selectable)
 - Max per flush box 3 x K005U
2 x K007U
1 x K010U
(Ensure mounting 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 AS/NZS 4051
 - Designed to AS3100
- Note: Specifications may change without notice.

Dimensions



Note: Dimensions in millimetres (mm).

Parts Assembly



Mounting



Recommended mountings for multiple units.