KIWI electronics

UNIVERSAL Dimmer

(Series U)

Recommended for...

* LED Drivers
* Mains rated LEDs
* Compact Fluorescent
* Electronic Transformers
* Wire Wound Transformers

Solutions for You...

* **ALL indirect Loads!** Made to control ALL indirect lighting up to 1000va
* **Low current device** Keeps working on low power loads, all the way down to **5watts or less**. (as needed with LEDs and compact fluorescents)
* *FULL means FULL* Brighter lights, greater heater output and increased efficiency acheived 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.**
* *Easy Installation* **Clicks straight into** PDL, HPM and Clipsal flush plates, with adaptors supplied.
* *New Zealand* Designed, Manufactured and Technically supported.

Available models...

MODEL	K005U	K007U	K010U	KBC
Va Rating	500va	750va	1000va	Black Kit

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

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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

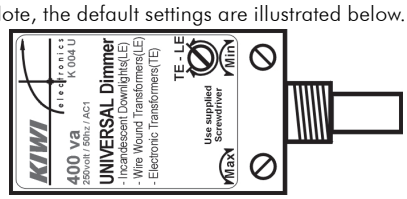
- Connection is by way of the two red wires.
- Connect one to live and the other to load.
- Turn on at the isolator.

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.

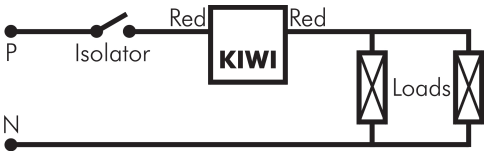
Maximum

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

Mode Switch Setting (LE and TE)

All UNIVERSAL Dimmers are factory set to Leading Edge (LE) mode. If needed you can change to Trailing Edge (TE) mode by piercing the circle on the product sticker and turning the screw clockwise. For electronic transformers we recommend Trailing Edge (TE) mode only.

Wiring Diagram



Connect multiple loads in parrallel.

Warnings

- ALWAYS ensure there is adequate ventilation. (ie. air movement across the heatsink.)
- Output from this unit will decease 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 permantly open circuit.
- Do not exceed the specified Va Rating.
- The KIWI Dimmer has been designed to be connected in series with the load. Do not connect between phase and neutral.

Product Specifications

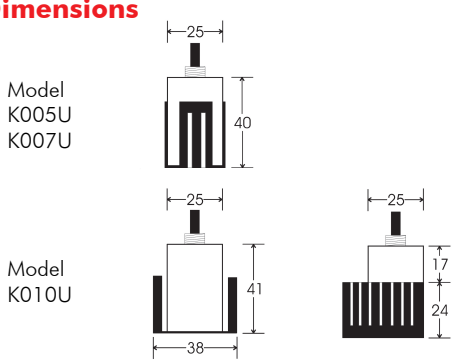
• Input voltage	250volt
• Output voltage	0% to 98% of input
• Frequency	50hz
• Peak current	60amp - K005U 120amp - K007U, K010U
• Load rating	Resistive (LE) Inductive (LE) Electronic Transformers (TE)
• Switching type	Leading Edge (factory Default) or Trailing Edge (Selectable)
• Max per flush box	3 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

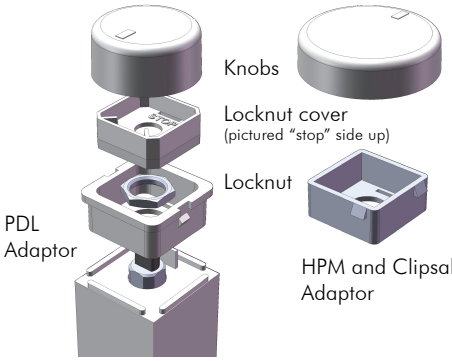
Note: Specifications may change without notice.

Dimensions

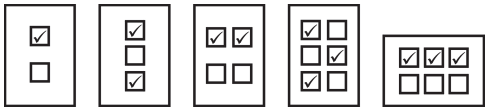


Note: Dimensions in milimetres (mm).

Parts Assembly



Mounting



Recommended mountings for multipule units.

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