KIWI electronics

LED Trailing Edge Dimmer

NEW ZEALAND MADE

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

KIWI Trailing Edge Dimmer recommended for...

* LED Drivers
* Mains rated LEDs
* ALL Electronic Transformers

Solutions for You...

* *Made for the Job!* — With active power factor sensing and switching on the trailing edge, these dimmers can dim ALL electronic transformers.
* *FULL means FULL* — Brighter lights and increased efficiency acheived by active power factor sensing. 240volts in and up to 237volts out, 99% efficient.
* *Extended Lamp Life* — Soft Start function = No thermal shock.
* *Personalised Control* — With 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.
* *Largest Loads* — Up to 1000va can be controlled from the Flush Plate.
* *Fits ALL Plates* — Clicks straight into PDL, HPM and Clipsal flush plates with supplied adaptors.
* *New Zealand* — Owned, designed, manufactured and technically supported in Mount Maunganui.

T Series available in models...

MODEL	K005T	K007T	K010T
Va Rating	500va	750va	1000va

Also available in MultiWay (push button) configuration.

Black Conversion Kits available model KBC.

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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

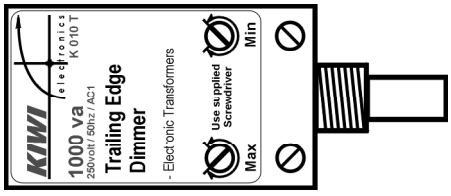
- Connection is by way of the two red wires.
- Connect one to live and the other to load.
- Turn on at the isolator.
- **CHECK the current does NOT exceed the PEAK.**

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.

Minimum and Maximum Settings

Important:

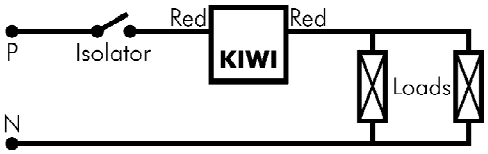
- When adjusting these settings, always use the screwdriver supplied.
- Note, the default settings are illustrated below.



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

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 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 permantly open circuit.
- Do not exceed the specified Volt Amp (va) Rating.
- The KIWI Trailing Edge Dimmer has been designed to be connected in series with the load. Do not connect between phase and neutral.

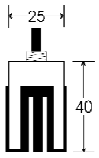
Product Specifications

• Input voltage	250volt
• Output voltage	0% to 98% of input
• Frequency	50hz
• Load rating	Capacitive (TE)
• Switching type	Trailing Edge
• Max per flush box	3 x K005T, 3 x K007T 1 x K010T
• Peak current	K005T - 4A K007T - 6A K010T - 8A
(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

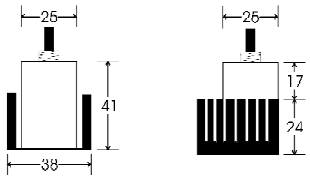
Note: Specifications may change without notice.

Dimensions

Model
K005T
K007T

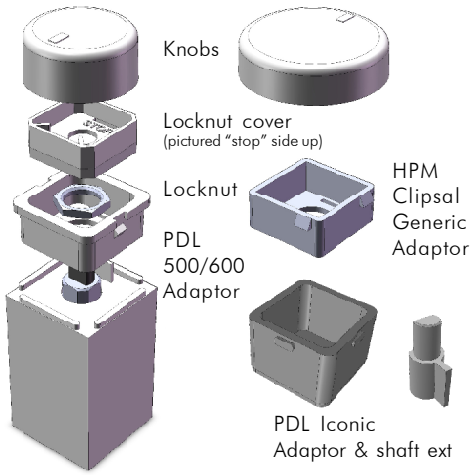


Model
K010T

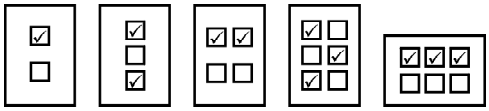


Note: Dimensions in milimetres (mm).

Parts Assembly



Mounting



Recommended mountings for multipule units.

Manufactured in NZ by: *KIWI* **Electronic Design Ltd**
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