

## MultiWay (Series TW) Trailing Edge Dimmer



### Recommended for 2 way dimming of...

- \* ALL Electronic Transformers driving Halogen or LED lamps.

### Solutions for You...

- \* **Multi-Way Dimming** **2, 3, 4, 5... WAY Dimming!** With **one** unit you can Soft Start or Stop, Turn Off or On, Dim up and down from as many locations as you like.
- \* **Easy Installation** **No rewiring required;** simply replace the existing Intermediate switches with a KIWI MultiWay and a momentary switch. Clicks straight into PDL, HPM and Clipsal flush plates with supplied adaptors.
- \* **Largest Loads** **Up to 1000va** can be controlled from the Flush Plate.
- \* **Correct Waveform** **Specifically designed** to support the special requirements of electronic transformers.
- \* **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** **Soft Start** and **Soft Stop** function. No 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** Designed, Manufactured and Technically supported.

### Available models...

MODEL	K005TW	K007TW	K010TW	KBC
Va Rating	500	750	1000	Black Kit

Note: This range is also available in standard configuration.

**Installation**

**Step 1 - adaptors**

- PDL:
- Click the adaptor into the 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 into the flush plate.

**Step 2 - plate**

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

**Step 3 - electrical**

- Wire the Dimmer, one red wire to live and one to load in the master flush box.
- Use standard intermediate switch wiring to all slave flush boxes. Use a momentary switch and connect live with a return to the yellow control wire of the KIWI Dimmer.
- Turn on at the isolator and press the Dimmer knob or press mech to turn on or off.
- Hold the press mech or turn the knob to ramp up/down.
- The Dimmer comes with a knob, momentary switches can be used in multiple locations, including the master.

After being isolated from the mains the KIWI will soft start to full on first start. The knob will rotate through 360 and while the unit is connected to mains supply will retain 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**

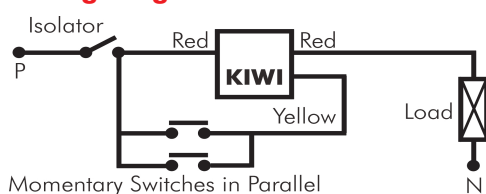
Turn the minimum trimmer clockwise to raise the minimum light level the knob can be turned to.

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.

**Wiring Diagram**



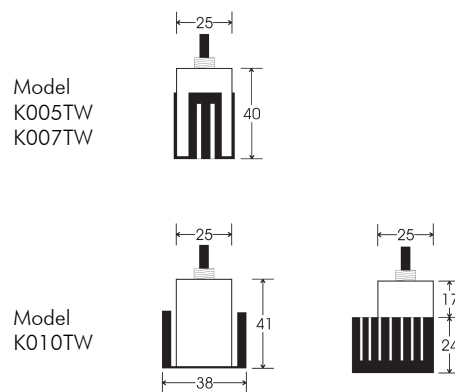
**Warnings**

- 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.

**Product Specifications**

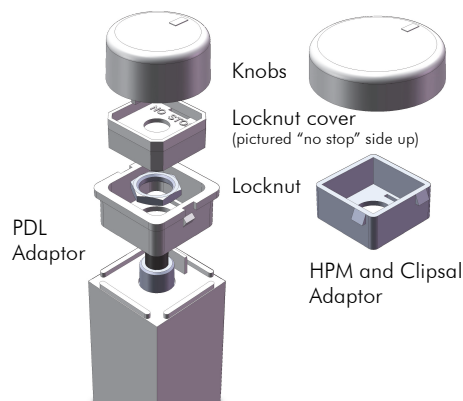
- Input voltage 250volt
  - Output voltage 0% to 98% of input
  - Frequency 50hz
  - Peak current 60amp - K005TW  
120amp - K007TW, K010TW
  - Load rating AC1 Resistive/Capacitive
  - Switching type Trailing Edge
  - Max per flush box 3 x K005TW, 3 x K007TW  
1 x K010TW  
(Ensure mounting method promotes air flow.)
  - Ambient temp 25°C
  - Thermal Fuse 16amp/110°C max
  - Thermal Protection Activated above 70°C
  - Knob Rotation 360° no memory of last setting if isolated
  - 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.

Manufactured by: **KIWI Electronic Design Ltd**

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