

# MultiWay Controller

(Series LW)



## Recommended for 2 way dimming of...

- \* Wire Wound Transformers.
- \* 250volt Incandescent Lighting.
- \* 250volt Down/Up Lights.
- \* 250volt Halogen Lighting.
- \* Heater Elements.
- \* General Purpose Applications.

## Solutions...

- \* **MultiWay 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.
- \* **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.
- \* **Toughest loads** Rated for **ALL** Inductive and Resistive circuits.
- \* **Extended Lamp Life** **Pre-Heat** and **Soft Start** reduces the start current and eliminates thermal shock to the load.
- \* **Personalised Control** All Controllers 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...

|                  |        |        |        |        |        |           |
|------------------|--------|--------|--------|--------|--------|-----------|
| <b>MODEL</b>     | K005LW | K007LW | K010LW | K020LW | K030LW | KBC       |
| <b>Va Rating</b> | 500    | 750    | 1000   | 2000   | 3000   | 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

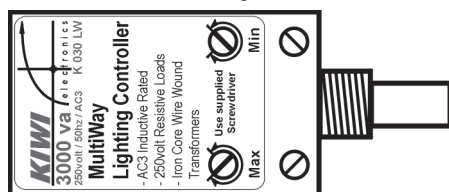
- Wire the Controller, one red wire to live and one to load in the master flush box.
- Use standard intermediate switch wiring to all slave flush boxes. Use a momentary switch and connect live with a return to the yellow control wire of the KIWI Controller.
- Turn on at the isolator and press the Controller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

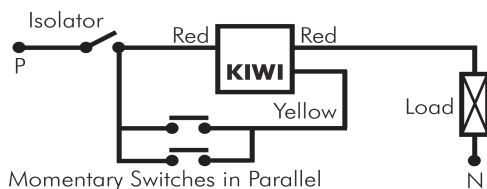
Turn the minimum trimmer clockwise to raise the minimum light level the knob can be turned to.

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

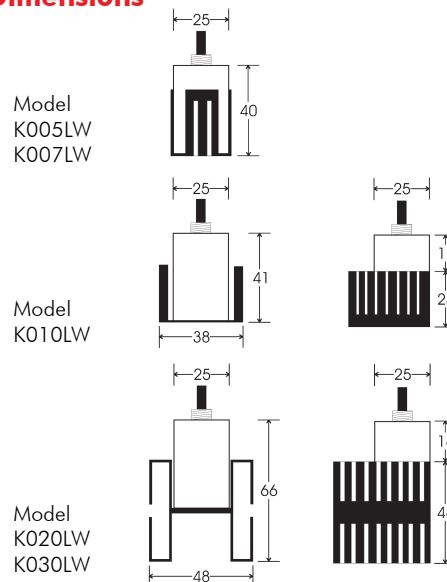
- ALWAYS ensure there is adequate ventilation. (ie. air movement across the heatsink.)
- Output from this unit will decrease if the thermal protection level is exceeded. In this event, increase ventilation.
- This unit is fitted with a thermal fuse. Exceeding a continuous current of 16amps or failing 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 312amp - K005LW, K007LW, K010LW, K020LW, K030LW
  - Load rating AC3 Inductive  
AC1 Resistive
  - Switching type Leading Edge
  - Max per flush box 3 x K005LW or K007LW, 2 x K010LW  
1 x K020LW, 1 x K030LW
- (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

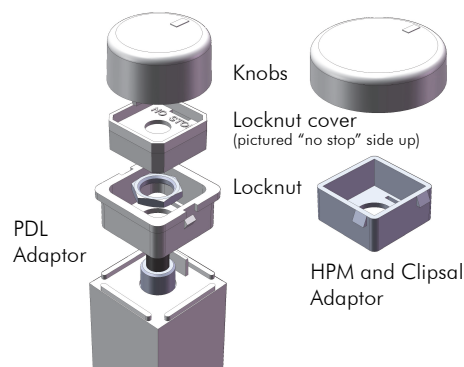
Note: Specifications may change without notice.

## Dimensions



Note: Dimensions in millimetres (mm).

## Parts Assembly



## Mounting



Recommended mountings for multiple units.

Manufactured by: **KIWI Electronic Design Ltd**

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