



## IN-LINE LED DIMMER PACK IDP 250/LED

The In-Line LED dimmer pack can be operated by any momentary switch (button dimmer controllers or retractable dolly or rocker switches).

A single switch can be used to provide On, Off, Raise, Lower operation.

Centre-Off Retractive Switch can be used for On/Raise and Off/Lower control.

The In-Line LED can also be used for multi-position, multi-gang dimming control and can be programmed to set minimum and maximum light levels which provides the ability to fine tune the dimming range to suit the wide variety of LED lamps available.

### Key Features

- » 250W In-Line LED Dimmer (capable of 1000W Tungsten Halogen)
- » Set both minimum and maximum light levels
- » Suitable for Leading Edge Dimmable LED loads
- » Hard-fired Dimming, Neutral Required
- » Low Voltage Switch Plate Wiring
- » Controlled by any Momentary Switch
- » Complies with EC EMC, LV and RoHS Directives
- » On /Off, Dim Up / Dim Down Functions
- » Multi-Position Dimming Control
- » Multi-Gang Switch Plate Capabilities
- » Fully Isolated Switch Plate Input
- » Fully Protected Fused Output
- » Guaranteed for two years

Also available is a 1000 Watt relay pack available for switching and 1-10 Volt dimming applications.





## **IN-LINE LED DIMMER PACK IDP 250/LED**

**The In-Line dimmer pack can be used and programmed in one or two button mode.**

**Single Momentary Switch** - any reference to the 'Up' switch below can be read to mean 'the switch'. When adjusting levels, the lamp does not 'bounce' up and down as it would in normal mode, this is to aid the setting of levels at the ends of the dimming range. To change dimming direction, the switch must be released and held to start dimming again in the opposite direction.

**Centre-Off Retractive Switch** - The up and down switches are used to set levels but only the 'Up' switch is used to store the settings or enter/leave programming mode.

### **Entering Programming Mode**

Important : Entering programming must be the first action that is carried out after power is applied to the dimmer and can only be activated in the first 5 minutes.

With the dimmer already powered, press and hold the 'Up' switch until the output gives 3 brief flashes (after approx. 20 seconds). Programming mode is now active and the switch can be released.

### **Programming**

The settings that can be edited are shown in the table. Whilst in programming mode, you can edit as many settings as you like (you do not have to leave and re-enter programming mode for each setting).

<b>Setting</b>	<b>No. of short presses</b>	<b>Adjustment range</b>	<b>Factory Default</b>
Recall switching level at power up	3	On or Off	Off
Cup (Minimum) Level	6	1-99%	10% nominal
Cap (Maximum) Level	9	2-100%	100%
Switching Level	12	1-100%, 0%= Last	Last

There are two types of setting and the programming method differs for each :

**'On/Off' setting type** - Press the 'Up' switch the required number of times as shown in the table. The lamp will then flash briefly to indicate that the new setting has been accepted and then return to either full on or off to show the new value.

**'Percentage level' setting type** - Hold the switch(es) to raise/lower the lamp to the desired level and press the 'Up' switch the number of times shown in the table to store the level. The lamp will then flash briefly to indicate that the new setting has been accepted.

**Note :** If the setting cannot be stored because it is invalid, the output will not flash (e.g. attempting to set the Cap level below the Cup level).

### **Restore Factory Defaults**

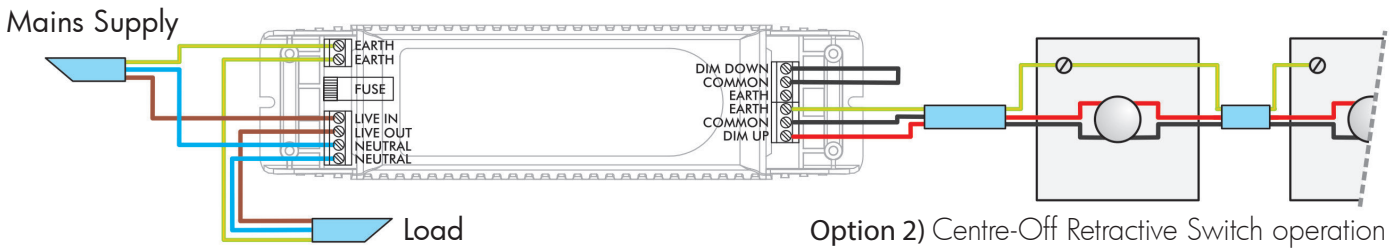
Whilst in programming mode, the factory defaults can be restored by repeatedly pressing the 'Up' switch until the lamp goes to full brightness and then dims slowly off (This will take approximately 25 presses). When this happens, stop pressing the switch and the output will dim slowly back to 100% and all parameters will be restored to their factory default values.

### **Leaving Programming Mode**

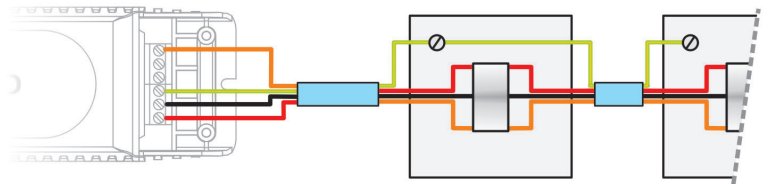
To manually exit programming mode - Hold the 'Up' switch for more than 20 seconds. When programming mode is exited the output will give 3 brief flashes and the switch can then be released.

Programming mode will also exit automatically after 10 minutes of inactivity or a power cycle.

**Option 1) Single momentary (push button or dolly) switch operation**

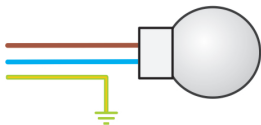


**Option 2) Centre-Off Retractive Switch operation**



**Load Types**

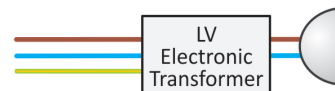
Mains LED Lamp



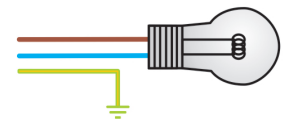
Constant Current / Constant Voltage LED



Halogen Low Voltage



Mains GLS or GU10



**Operation**

A brief press switches the load On or Off and holding the switch dims up or down.

- Single momentary button/dolly switch operation - provides On / Off and Dim-Up / Dim-Down.
- Centre-Off Retractive Switch operation - provides On / Dim-Up and Off / Dim-Down.

**Technical Data**

Information	IDP 250/LED
Circuit Supply	200 - 250 Volts, 50 - 60Hz
Channel Output	15 - 250 Watts (max. 1 amp) of LED loads*
Channel Fuse	IEC60127 6.3 Amp. (F) (spare fuses available on request)
Dimming Output	Hard fired leading edge triac control
Control Input(s)	Isolated input(s) from Volt free switch
Lamps Maximum	25 Lamps (250 Watts Maximum)
Case Material	Flame retardant Polycarbonate to UL94-VO
Case Colour	Black
Length-Width-Depth	224mm x 58mm x 42mm
Weight	0.41 kgs
Standards	Complies with EC EMC, LV and RoHS Directives

**Note**

Installation should be in accordance with the relevant National Wiring Regulations and other applicable Regulations.

Complies to the EC EMC and Low Voltage Directives may be invalidated if not used or installed according to the published specification.

Install in well ventilated area and do not cover with insulating materials.

\*Also capable of 50-1000w of Low Voltage Halogen, Mains GLS or Mains GU10