



# Installation Guide

## 1-10 Volt Dimmer Switch



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### 1.0 Product Range

Product No.	Description
1-10DIM	1-10 Volt dimmer switch

### 2.0 Description

- SUITABLE FOR LED LIGHTING
- Designed for 1-10V regulating and compatible 0/1-10V interface dimmable LED DRIVERS, electronic ballasts, transformers and power dimmers.




### 3.0 Features

- The 1-10V LED Dimmer is a low cost controller for controlling dimmable analogue LED DRIVERS.( these must be controllable using a 1to 10 volts DC control signal ) in LED lighting.
- The 1-10V LED Dimmer uses a shunt voltage regulation technique to enable the small current supplied by the LED Driver.
- The maximum load connected to the drive is 10V/50mA.

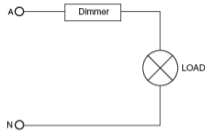
### 4.0 Electrical Specification

Model No.		1-10DIM
Input	Voltage (Max.)	10V DC
	Voltage (Min.)	0.5V DC
Output	Control Current (Max.)	50mA
Environment	Working Temp.	-10°C~80°C, ambient operating at full load
	Working Humidity.	20%~90%RH non-condensing
	Storage Temp., Humidity	-20~80°C, 10%~90%RH
Connection	To <u>Dimmable</u> input port	UL rated, 20AWG for "+" and "-"
Others	MTBF	100K hours min. @ Ta=25°C
	Dimensions(L*W*H)	23mm*23mm*54mm
	Compliance with Australian Standard AS /NZS CISPR 15	

## 5.0 Load Compatibility

Load Symbol	Compatible Loads	Product Number
		1-10DIM
		1-10V (50mA)
	Dimmable LED Lighting	✓
	Incandescent Lighting 240V Halogen Lamps	✓
	Low Voltage Halogen Lighting with Electronic Transformers	✓

## 6.0 Wiring Diagram



### NOTE:

- MUST BE INSTALLED by a licensed electrician.
- TURN OFF when installing.
- Minimum output connect cable is 1007#20AWG;  
Maximum output cable length:50M

## 7.0 Installation

- The minimum brightness can be set before the knob is put into place.
- When the unit is wired as required, switch on the power.
- Turn the potentiometer carefully by hand until the desired minimum brightness is obtained .
- Insert the knob so that the "tongue" on the knob lines up with the slot on the dimmer[see Fig 1].
- Once inserted, the knob cannot be turned any further anticlockwise .

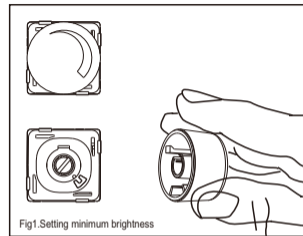


Fig1.Setting minimum brightness

## 8.0 Warranty Statement

1. This DimEzy product is guaranteed against faulty workmanship and materials for a period of two years from the date of installation.
2. This warranty is expressly subject to the DimEzy product being installed, wired, tested, operated and used in accordance with the manufacturer's instructions.