

DC ELECTRONIC DUODIM LIGHTING DIMMER

interVOLT are pleased to introduce the new DuoDim two channel lighting dimmer for 12 and 24VDC applications. This innovative new product is designed for the boat, motorhome, caravan and coach markets where a need for switching two separate circuits from one compact device is required. The DuoDim is suitable for dimming any filament lamps including incandescent, halogen and xenon. It has the added advantage of being able to combine both channels for use with a single switch, therefore utilising the power of both channels as one. All this at the flick of a switch! Please see overleaf for our full list of features and specifications.

The new purpose built extruded housing with moulded end caps is as functional as it is attractive. The new design features effective heat dissipation, easy mounting, compact size and no sharp edges!

purpose designed

Visual indication of the system status provides important information for both users and installers. The two tri-colour LEDs will display an array of symptoms to assist in troubleshooting on-board problems.

self-diagnostics

Only high quality, marine grade components are used in construction. All hardware used in assembly is non-ferrous and the terminals are all plated brass. Circuit boards are tropicalised for ultimate protection.

corrosion resistant



Connection is made safe and sure by using heavy-duty custom designed terminals. Power terminals are protected by insulated barriers to prevent shorting. Auxiliary terminals are tunnel style for extra protection.

heavy duty terminals

A mode selector switch allows the installer to change the control of the dimmer from two independent channels to two combined channels so that the total output power can be divided into two or grouped as one.

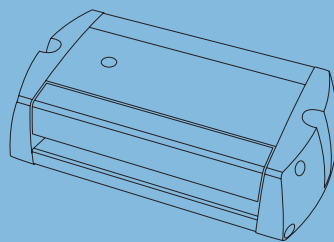
selectable output

The unique extruded cover closes to protect the terminals and electronics from external objects including fingers! This prevents inadvertent short circuiting, ensuring safety and providing peace-of-mind.

easy access cover

DIAGNOSTIC INDICATOR

Diagnostics: Unique to interVOLT, is the self diagnosing electronics. This design provides valuable feedback to installers and operators alike. Twin LED's display the system status and will indicate standby power, lamp load connected (lights on), over temperature and output short circuit.



SLD2040DD



Protection: interVOLT dimmers feature a host of devices designed to protect the electronics from various connection and application problems. The dimmers are protected against short circuit, over temperature and an internal fuse protects the electronics in the event of component failure.



Memory: All interVOLT dimmers have an integrated device which stores data for various functions including the memory feature. The memory function records the current 'brightness' setting when the lights are switched off, so that same 'brightness' is resumed when turned on again. The DuoDim has the added advantage of memory retention upon power loss as well – truly unique!



Soft Starting: A special feature of interVOLT dimmers is the soft start function. High inrush current diminishes the life of common filament lamps. This feature controls the start up power by limiting the in-rush current, considerably extending the bulb life.



Safety: An innovative feature of our dimmers is the temperature failsafe mode. Most electronic dimmers either fail or shutdown on temperature overload. interVOLT dimmers are programmed to dim the lighting circuit to 50% of full load if the electronics should overheat.



Dual Channel: The DuoDim is a true two channel dimmer in that each channel is capable of controlling and monitoring two separate lighting circuits. In UNGROUP mode the total power output of the DuoDim is equally divided between the two channels. In GROUP mode the two channels can be combined and controlled with one switch only thereby using the total power of the whole dimmer as one. Thus the DuoDim is truly two dimmers in one!

Continuous Load Rating
@ 30°C (86°F)

In GROUP mode 100 Watts @ 13.0VDC or
200 Watts @ 26.0VDC per channel.
In UNGROUP mode 200 Watts @ 13.0VDC or
400 Watts @ 26.0VDC total overall.

Length Overall

135mm (5.315")

Width Overall

80mm (3.150")

Height Overall

40mm (1.575")

Weight

300 grams (10.6 oz)

Input Voltage Range

9-33VDC

Dimming Voltage Range

10-98% of input voltage

Standby Current Draw

<10mA

Operator

One single pole momentary push switch (normally open) for each channel. Multiple switches can be used within the same circuit.

Operating Temperature

-25°C to +45°C (-13°F to 113°F)

Operating Humidity

Ideally less than 90%

Enclosure Material

Marine grade aluminium dye anodised

End Cap Material

Injection moulded electrical grade ABS/PC plastic

Terminal Cover Material

Extruded temperature resistant ABS

Diagnostic Indicator

Twin tri-colour LED – monitoring standby mode, load on, short circuit and temperature

Transient Voltage Protection

Filtering – Purpose designed circuit

Short Circuit Protection

Current sensing circuit –
Shutdown (automatic reset)

Over Temperature Protection

Temperature sensing circuit –
Foldback to 50% of rated load (automatic reset)

Input Reverse Polarity Protection

Internal Fuse – Diode bypass circuit
(not user serviceable)

Termination

Power – 6-32 UNC H/D screw terminal.
Auxiliary – Euro terminal block

Single/Group Selection

Use selectable slide switch.
Located next to auxiliary terminal.

Conformity

EMC – Australian AS2064 and
European EN50081-1 / EN50082-1

Certification

EMC – Australian C Tick mark and
European CE mark

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