

# WI-LD-4

LED DIMMER MODULE



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## Features

- Sonetonix LED Dimmer WI-LD-4 features 4 channels of LED Dimming, with a maximum load of 5A per channel. Dimmer provides excellent colour stability and smooth dimming performance even at lower dimming rates. The LED Dimmer can be interfaced Using our Touch Keypads or interfaced with any 3rd party processor.
- Separate Input Voltages can be provided for each channel rated at 12-60VDC. Increased energy efficiency with 0 – 100% dim levels.. As with other Sonetonix products, all S-NET commands are available to use and program the Device as per user needs thus extending its functionality.
- Third party automation modules or other Sonetonix modules are interfaced through RS-485 or High speed 2.4 GHz WI-Fi technology communication.

## Other Features

- 4 Channels LED Dimmer, standard type @5A per channel
- Supports wide variety of LED fixtures, LED strip, LED bulbs and spots
- PWM(Pulse Width Modulation) dimming technology for flicker-free dimming
- Higher colour resolution & stable performance using PWM technique
- 0 – 100% light intensity levels to create perfect atmosphere and ambience
- Cost saving solution with same LED light with various intensities and fade time
- Restores channel status upon power reset
- LEDs on the modules indicate communication to a Sonetonix network, input power to the module, and output power to the load.
- Low voltage control interface for each channel
- Status indication LEDs for each channel
- 0.96 inch OLED Display indicates the S-NET ID (default) or IP Address.
- individual Buttons to control the individual channel

## Front Panel

Two Push button switches on the front panel provide three functionalities. One the (1) SETUP BUTTON SWITCH used to configure and set up the device. (A) WHEN DOUBLE TAP the SETUP BUTTON SWITCH it will change the device from wired to wireless mode and vice-versa.(B) WHEN LONG PRESS the SETUP BUTTON SWITCH for 5 sec it will erase all data stored in the device.(C) Single tap the setup button, user can read the ID or IP Address using 0.96 inch OLED Display. The other one (2) RESET SWITCH used reset the device.

## S-NET

The WI-LD-4 communicates with a 3rd Party control system via the S-NET control network. A pair of S-NET ports is provided on the WI-LD-4 for easy daisy-chaining of several DIN Rail Series automation control modules.

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## ELECTRICAL SPECIFICATION

- Operating Voltage : 12 - 60 VDC
- Maximum Power Per Channel : 60 W @12VDC, 120 W @ 24 VDC
- Max Load Current per Channel : 5 A
- Operating Temperature : 0 - 45 °c
- Module Total current : 20 A
- S-NET Power Usage : 1.08 Watt (0.09A @12Volts)

## CONTROLS & INDICATIONS

- **PWR** : (1) Red LED illuminates when DC power is applied to the power port
- **COM** : (1) Yellow LED, indicates communication with the control processor
- **NW** : Bi-colour LED Red Indicates connection loses with router & Green indicates connection established.
- **CH1 - CH4** : (Blue) Channel status indication LEDs
- **Setup, Reset** : Miniature push button switches to configure and reset the device manually
- **Manual Switch (1-8)** : (8) Miniature push button switches to control the device manually
- **OLED Display** : (1) 0.96 inch display to monitor the Device ID or IP Address

## CONNECTIONS

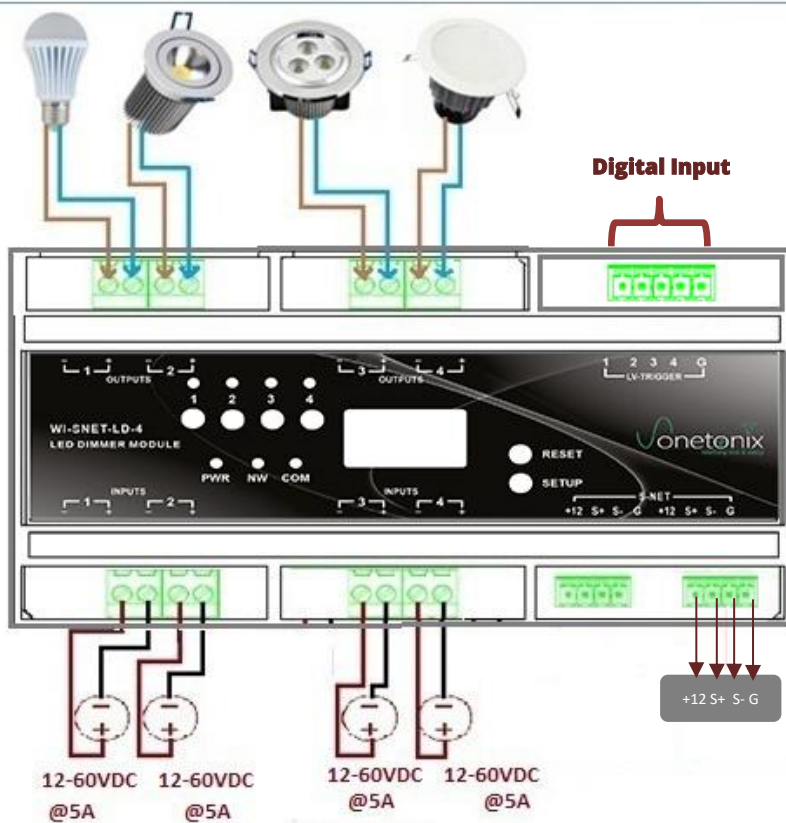
- **LOAD (CH1+/- to CH4+/-)** : (4) 2pin 7.62mm captive screw terminals to provide dimmed output to the Load @2A per channel
- **INPUT VOLTAGE (V1+/- to V4+/-)**: (4) 2-pin 7.62mm captive screw terminals to provide DC input voltage to the dimmer module
- **S-NET** : (2) 4-pin 3.81mm detachable terminal blocks for S-NET communication
- **LV TRIGGERS (G, 1-8)** : (1) 5-pin 3.81mm detachable terminal block to provide low voltage trigger to each channel.

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## APPLICATION DIAGRAM



V+ : 12-60VDC -ve INPUT  
V- : 12-60VDC -ve INPUT  
CH+ : DIMMED +VDC OUTPUT  
CH- : DIMMED -VDC OUTPUT  
12V : +12VOLT  
G: GROUND

### – Dimensions and weight

 Height	: 3.71 Inches.
 Width	: 6.26 Inches.
 Depth	: 2.35 Inches.
 Weight	: 369 Grams.