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PRODUCT MANUAL

DMX SOLID STATE DECODER



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REVISED MAY 2016

PRODUCT OVERVIEW

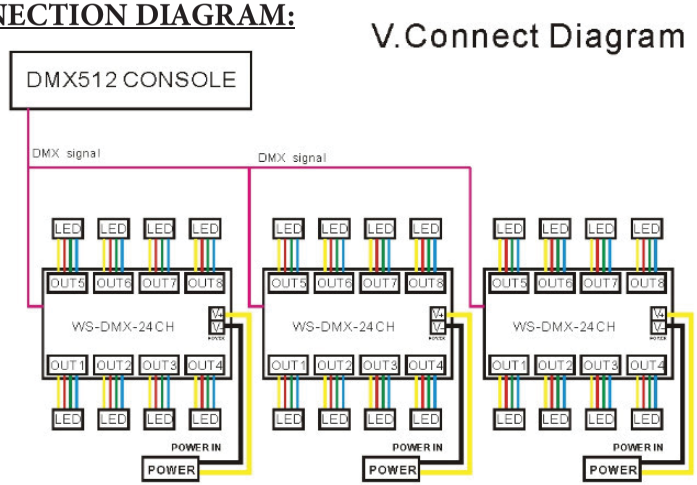
SAFETY INFORMATION:

- Do not connect any other voltage than those listed in the specifications. AC voltages will destroy the unit.
- Be careful not to short circuit the solid state inputs (do not cross wires or connect one wire to two inputs)

SPECIFICATIONS:

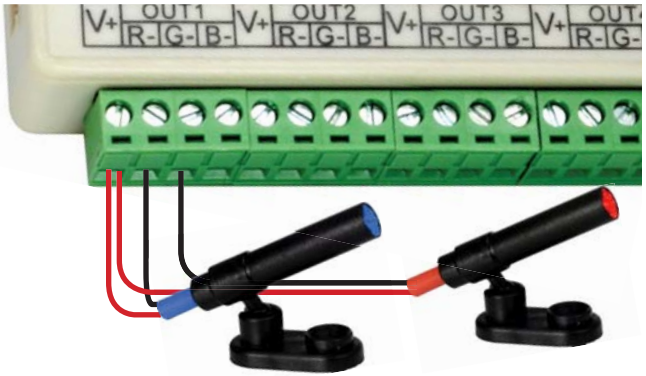
- Input/Output Voltage: DC5V-24V
- Total Output of Current: 24A
- Controller: DMX512 3P
- Work Temperature: -20°C to 60°C

CONNECTION DIAGRAM:



CONTROLLING 12V LED LIGHTS:

You can control up to 24 LED lights on a single unit if you do not need to control the color. For example, one unit could control up to 24 Nano Spot. See the wiring diagram below for how to do this:



Wire each additional light following this scheme. Treat each Output as it's own 3-light block, i.e. when you get to the V+ of OUT 2, wire the positive lead of the next 3 lights into that V+ terminal.

INSTRUCTIONS

PROGRAMMING:

We recommend using this unit in conjunction with a controller like the PicoDMX. You can program the unit as a stand alone unit. To do this refer to the following instructions:

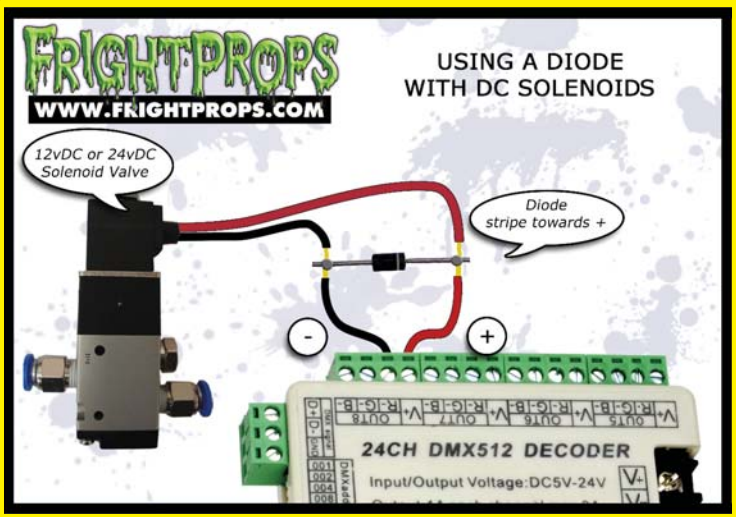
1. Each DMX Decoder occupies up to 24 DMX channels depending on the unit ordered. Set your starting DMX address using the dip switches on the side of the unit. Use address 2 if you are using this unit with a PicoDMX

2. When signal can be received with the FUN (10) switch is set to OFF.

3. To program the unit manually, set the FUN (10) switch to ON. In this mode the functions are as follows:

Switch1-9 is off	Black
Switch1=ON	Red
Switch2=ON	Green
Switch3=ON	Blue
Switch4=ON	Yellow
Switch5=ON	Purple
Switch6=ON	Cyan
Switch7=ON	White
Switch8=ON	Seven-color jumpy changing(8 steps speed)
Switch9=ON	Seven-color gradual changing(8 steps speed)

4. When using switch 8 or 9 to change the effect, switches 1-7 control the transition speed, 1 being the slowest, and 7 being the fastest.



NOTE: We do not recommend activating solenoids with this unit without the use of a diode installed between the unit and the solenoid (as shown at left). Directly activating solenoids with this unit will damage the device.