**CONNECTION INSTRUCTIONS**

**2801 IC Type DMX to Digital Decoder, 5-24VDC**

This LED DMX Decoder converts a DMX control signal to an SPI digital signal output for 5-24VDC digital IC type LED pixel lights, strip lights, or modules with compatible IC type. **Do not directly power more than 5A of LED lighting through the decoder, additional power must be provided evenly to large amounts of digital products.** (see illustration below)

Digital IC type LED lights have a directional data input/output flow, you must follow this flow or you will damage the modules. Always input your data signal to the “DI” wires (DATE INPUT). Never wire from your DMX decoder to the “DO” wires (DATA OUTPUT). When cutting and connecting modules be sure to never reverse the flow of the modules. Arrows are printed on the modules to distinguish the directional flow, do not reverse this direction.

**Digital Module Lights, 2801 IC - 12VDC**

**DMX Controllers:**
- LC-NL-STICK3
- LC-NL-STICK
- LC-NL-STICK2P
- LC-NL-DMX-U7
- LC-NL-DMX-U9

**MD-BW-DRGB4**
- CLOCK IN
- GROUND
- DATA
- 12VDC+

**MD-BW-DRGB3**
- CLOCK IN
- GROUND
- DATA
- 12VDC+

**MD-BW-DRGB5**
- CLOCK IN
- GROUND
- DATA
- 12VDC+

If you notice Voltage Drop, add DC power to end of run

Splice a set of wires from your Ground (Black) and 12VDC+ (Red) wires to a 12VDC power source every 25 modules.

**CONNECTION INSTRUCTIONS**

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- LC-NL-STICK
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**MD-BW-DRGB4**
- CLOCK IN
- GROUND
- DATA
- 12VDC+

**MD-BW-DRGB3**
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- GROUND
- DATA
- 12VDC+

**MD-BW-DRGB5**
- CLOCK IN
- GROUND
- DATA
- 12VDC+

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Splice a set of wires from your Ground (Black) and 12VDC+ (Red) wires to a 12VDC power source every 25 modules.