

**Important: Read all instructions prior to installation.**

**DS-DMX46A**

### 4-Channel DMX/RDM Decoder



DS-DMX46A

#### Safety and Notes

- Product should be installed and serviced in accordance with applicable national, state, and local building and electrical codes.
- To reduce the risk of electric shock, ensure that the main power source and circuit breakers are switched off before performing any installation or wiring procedures.
- DMX signal amplifier is needed if more than 32 decoders are connected or if it is used with long signal lines.
- If a recoil effect occurs because of longer signal line or bad line quality, connect 0.25 W 90–120 Ω resistor at the end of each DMX signal line.

Check product label for specific electrical specifications related to installation. Improper installation will void warranty.

#### RDM Mode

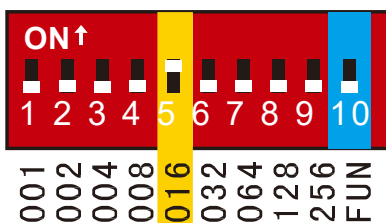


To use RDM mode, set the DIP switch so 1–10 are all OFF. DMX start decode address can be set externally by the DMX/RDM console.

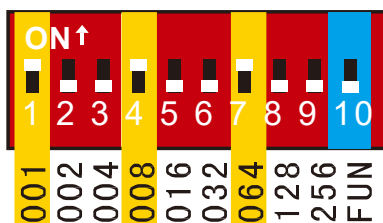
#### DMX Mode

The DMX start decode address value can be set using switches 1–9. When all switches are set to OFF the value is 0. Setting multiple switches to ON combines those values to form other addresses as shown in examples below.

EXAMPLE: Set start address to 16.

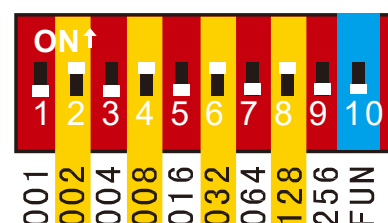


EXAMPLE: Set start address to 73.



$$001 + 008 + 064 = 73$$

EXAMPLE: Set start address to 170.

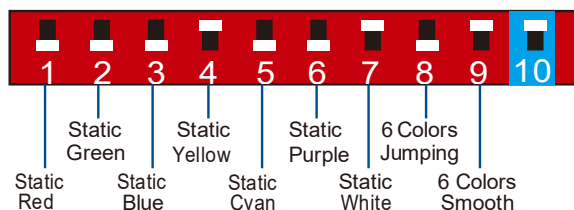


$$002 + 008 + 032 + 128 = 170$$

#### Dynamic Effect (Fun) Mode

With FUN switched ON, turning settings 1–7 on create a static color so long as switches 8 and 9 are OFF. For dynamic effects, turn switch 8 or 9 on for desired effect. When either switch 8 or 9 are ON, switches 1–7 are used to control 7 speed levels, with 7 being the fastest.

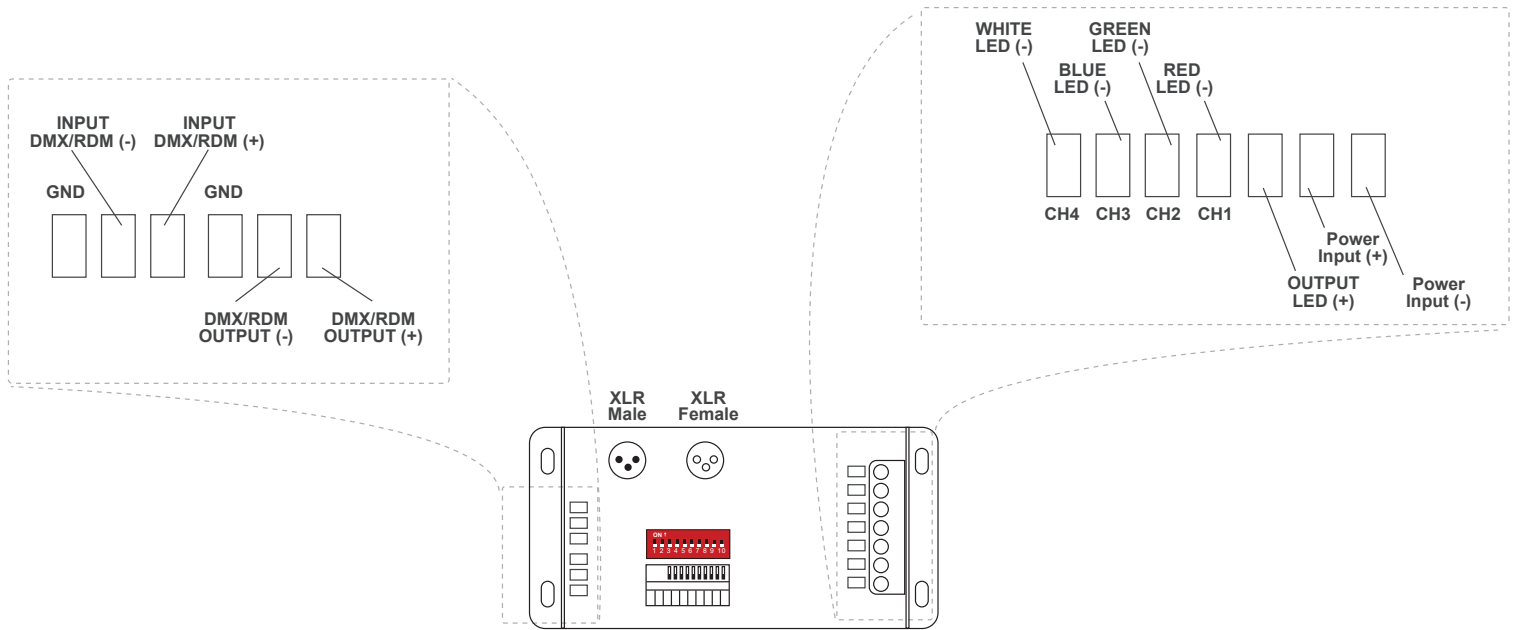
Note: When multiple DIP switches are on, the highest switch value will be used. For example, if 8 and 9 are ON, then 9 would be the active mode. If speeds 4 and 7 are on, the speed setting would be 7.



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## 4-Channel DMX/RDM Decoder

### DMX Wiring Diagrams



### Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	<ol style="list-style-type: none"> <li>1. No power</li> <li>2. Incorrect or loose connection</li> </ol>	<ol style="list-style-type: none"> <li>1. Check power</li> <li>2. Check the connection</li> </ol>
Wrong color	<ol style="list-style-type: none"> <li>1. Incorrect wiring</li> <li>2. DMX decode address error</li> </ol>	<ol style="list-style-type: none"> <li>1. Check wiring</li> <li>2. Set correct decode address</li> </ol>
Uneven intensity between front and rear, with voltage drop	<ol style="list-style-type: none"> <li>1. Output cable is too long</li> <li>2. Wire diameter is too small</li> <li>3. Overload beyond power supply capability</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce cable length</li> <li>2. Change to higher gauge wire</li> <li>3. Replace with a higher wattage power supply</li> </ol>