Product Specification
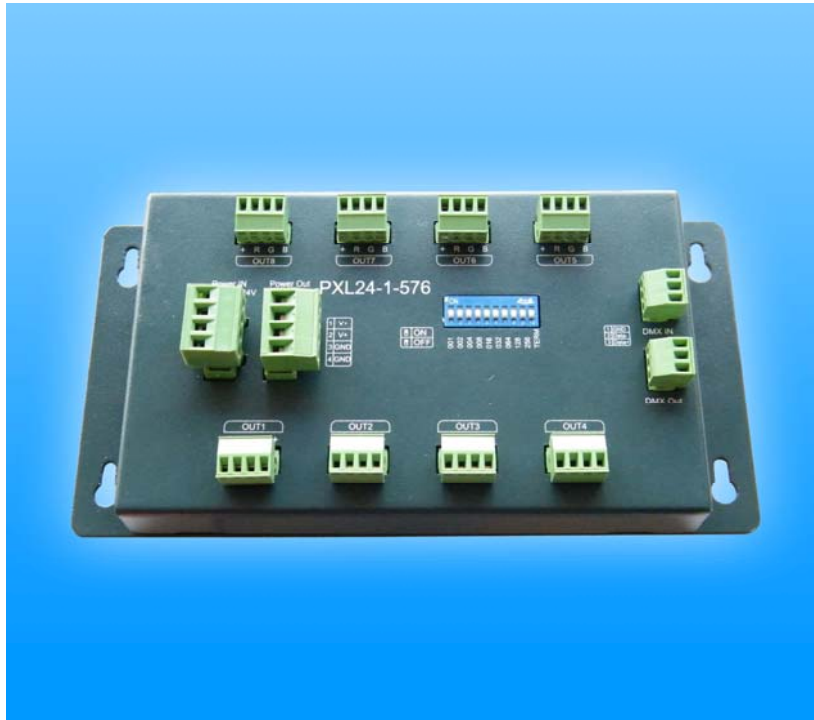
High Power DMX Decoder & Driver
Item NO.：PXL24-1-576

Meets DMX512/1990
Max.1/CH output

SUMMARIZE

Thanks for your using PX series DMX512 decoder & driver. PX series adopt the advanced micro-computer control technology and converted the DMX512/1990 digital signal widely used in international to the analog control signal. 1~24 channels output for option and each channel able to achieve 256 gradations of contr-oling, and also it can be used as the connector of PC digital-light controller and analog light modulator. It is mainly used for the controlling of buildings & lights applied LED.

Product Features

- Meets DMX512/1990
- With 256 gradations and full-color contronl
- With 24 channels output and Max.1A/CH output
- Can achieve the asynchronous color changes effect under working with DMX controls system.
- With the light color selected mechanism, and be able to control the light with 1~3 colors
- Set the DMX address code freely
- With good noiseproof feature
- Custom-made
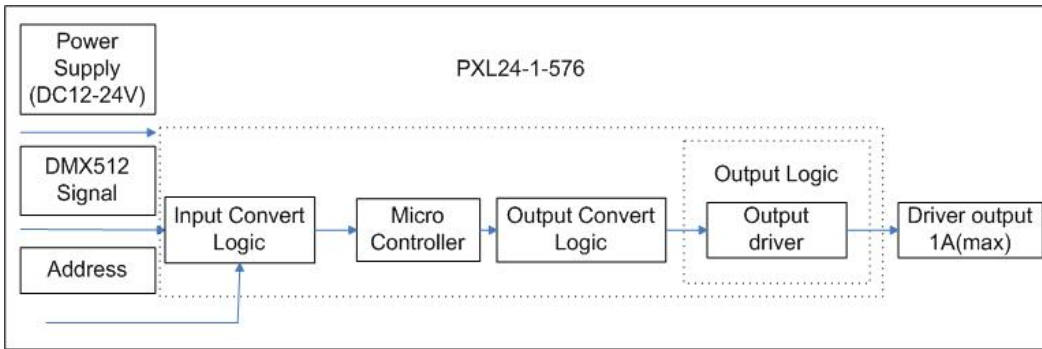
Tech-parameter

Decode CH.：   24 Channels
Signal Input：   DMX-512/1990 Standard digital signal
Signal Output：   0~24V, Max.1A/CH.
Power Supply：   DC12-24V
Power Dis.：   12V:<288W;24V<576W
Power output：   12V:<288W;24V<576W
Work Temp.：   0~70℃   ...
Size：   L195(mm)*W100(mm)*H18(mm)
Weight：   460g

Dimension:
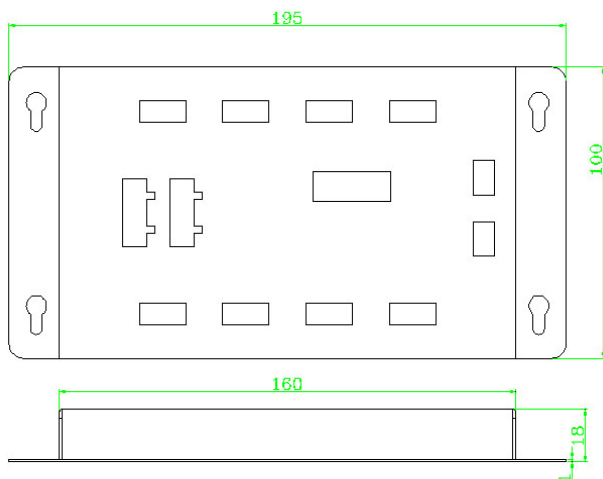
Internal Block Digram

Appearance
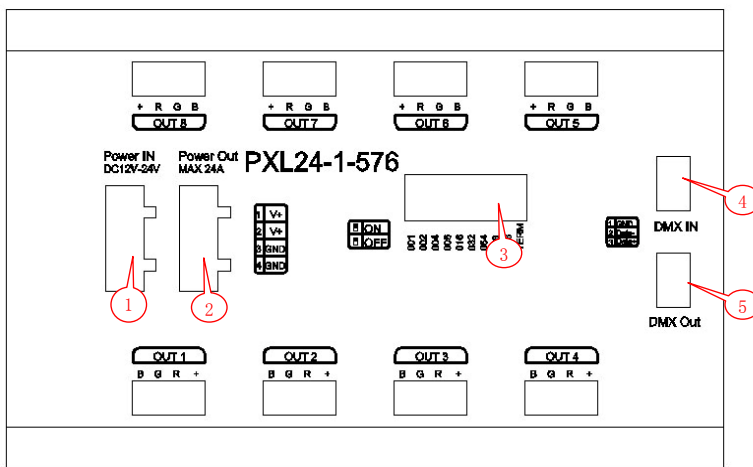
(1) Power IN
(2) Power Out
(3) Address setting interface
(4) Driver output interface
(4)DMX IN
(5)DMX Out

◆ Driver output interface
   Common in anode-V+ and with 8pcs of V+ interface & 24pcs of R,G,B output interface. Not only does it apply to the verious of LED module in full-color & monocolour , but also it can self-trimming the output current based on the load of LED module.1A per channel shall not beyond the maximum.

Remark:
   Connect the anode and RGB wire of common anode RGB module to the output interface of deoder directly;Connect the anode wire of single-color module to V+ on decoder,and connect the cathode wire to one of RGB pin according to the LED's color; Connect several colors single-color module to one decoder,please connect their anode wires to V+ pin on decoder.

Operating instruction

PXL24-1-576 Decoder & Driver contolled by DMX512 controller,and its fore-end connect with the DMX512 signal transmit device. Take EC-DMX512 for example, its rear-end can connect with 0~24V circuit signal device. This instruction is only for LED driver.
The connecting diagram is as following.

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┌─────────────────────────────────────────────────────────────────────┐
│   ↓    ┌───────────┐   ┌──────────────────┐   ┌──────────────┐       │
│        │ LED Power │   │ DMX512 Controller│   │ Output Ports │       │
│        └───────────┘   └──────────────────┘   └──────────────┘       │
│                                                                       │
│        ┌───────┐            ┌───────┐         ...   ┌────────┐        │
│        │ Port1 │            │ Port2 │               │ Port m │        │
│        └───────┘            └───────┘               └────────┘        │
│     ┌──────────────┐     ┌──────────────┐       ┌──────────────┐      │
│     │ PXL24-1-576  │     │ PXL24-1-576  │       │ PXL24-1-576  │      │
│     │DMX512 Decoder1│    │DMX512 Decoder1│      │DMX512 Decoder1│     │
│     └──────────────┘     └──────────────┘       └──────────────┘      │
│     ┌──────────┐         ┌──────────┐           ┌──────────┐          │
│     │ LED Lamps│         │ LED Lamps│           │ LED Lamps│          │
│     └──────────┘         └──────────┘           └──────────┘          │
│     ┌──────────────┐     ┌──────────────┐       ┌──────────────┐      │
│     │ PXL24-1-576  │     │ PXL24-1-576  │       │ PXL24-1-576  │      │
│     │DMX512 Decoder2│    │DMX512 Decoder2│      │DMX512 Decoder2│     │
│     └──────────────┘     └──────────────┘       └──────────────┘      │
│     ┌──────────┐         ┌──────────┐           ┌──────────┐          │
│     │ LED Lamps│         │ LED Lamps│           │ LED Lamps│          │
│     └──────────┘         └──────────┘           └──────────┘          │
│          .                    .                      .                │
│          .                    .                      .                │
│          .                    .                      .                │
│     ┌──────────────┐     ┌──────────────┐       ┌──────────────┐      │
│     │ PXL24-1-576  │     │ PXL24-1-576  │       │ PXL24-1-576  │      │
│     │DMX512 Decoder n│   │DMX512 Decoder n│     │DMX512 Decoder n│    │
│     └──────────────┘     └──────────────┘       └──────────────┘      │
│     ┌──────────┐         ┌──────────┐           ┌──────────┐          │
│     │ LED Lamps│         │ LED Lamps│           │ LED Lamps│          │
│     └──────────┘         └──────────┘           └──────────┘          │
│  ┌──────────────────────────────────────────────────────┐            │
│  │ Notes:                                                │            │
│  │ 1."m"is the amount of controller output port          │            │
│  │ 2."n"is the max. amount of terminals for each port    │            │
│  └──────────────────────────────────────────────────────┘            │
└─────────────────────────────────────────────────────────────────────┘
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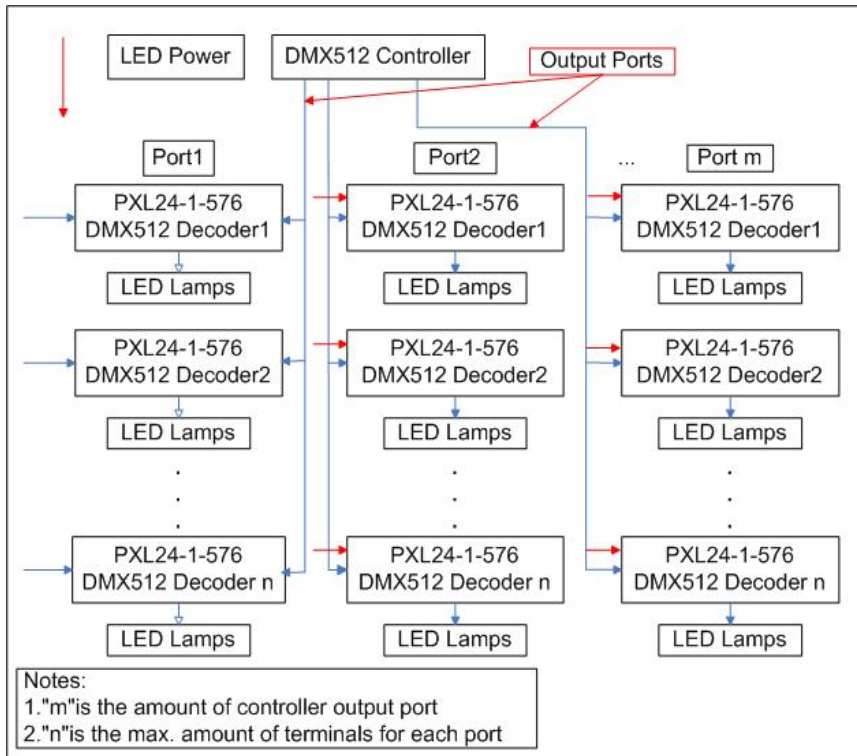
Connecting of DMX-512 Signal Cable

◆ DMX signal cable used the CAT-3 cable，and DMX signal tells positive(+) from negative (-). While welding the DMX signal cable plug,there must pay much attention to know postive(+) from negative(-), and then connect the DMX512 signal cable with the corresponding input interface of PXL24-1-576 correctly.
◆ Connect a signal terminal at the end of the whole connetion.