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DMX512 Decoder

User Manual V1.1

DMX Decoder

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Features

DMX512 decoder LW-D6PWM can drive LED with PWM signal output.
User can select 1-6 routes output channels, each of which can realize control of 256 levels gray scale.
DMX address can be set by DIP switch on the decoder.

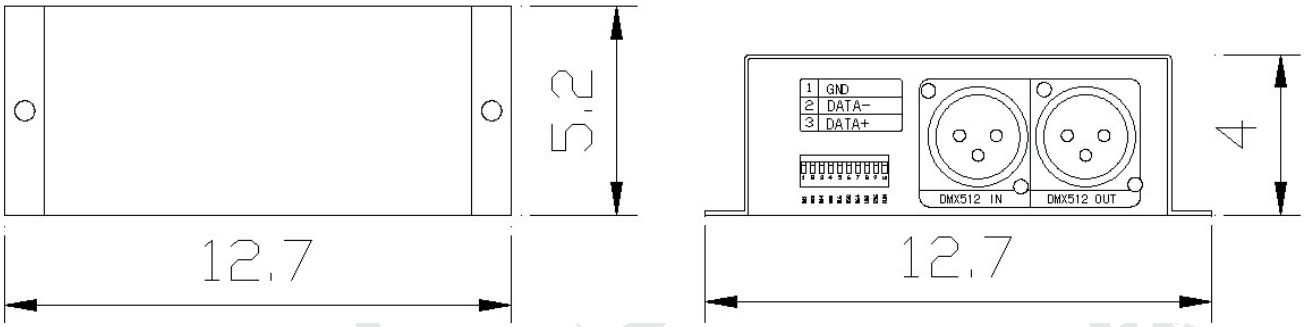
Applications

Single color, double color and tri-color led bar, strip and so on.

Parameters

Item	Parameter
voltage	DC12-24V
Working Current	100mA Max
Input Signal	DMX512
Output Signal	PWM
Output Channel	6 Channels
Output Current	6A Max for each channel

Mechanical Size



Address Setting

Every decoder can decode 6 DMX addresses to the maximum. User can set the address by DIP switch. DIP switch in up position OFF, in down position ON.
If the DIP down position ON, you can get the value of this position; DIP up position OFF, the value of this position is 0.
DIP position 1-9 is the binary system number of setting beginning DMX512 address, 1 is the lowest and 9 is the highest. User can set 512 pcs of addresses totally
For example if the seventh position in down position ON, you can get the value 064 as the pictureDMX beginning address=total value (from 1-9)+1
NOTE: When DIP FUN=OFF, the decoder can receive DMX signal
After setting the address, please complete the process by connecting the power supply again

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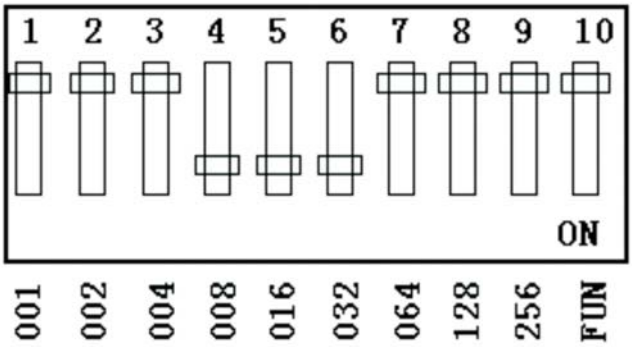
Example



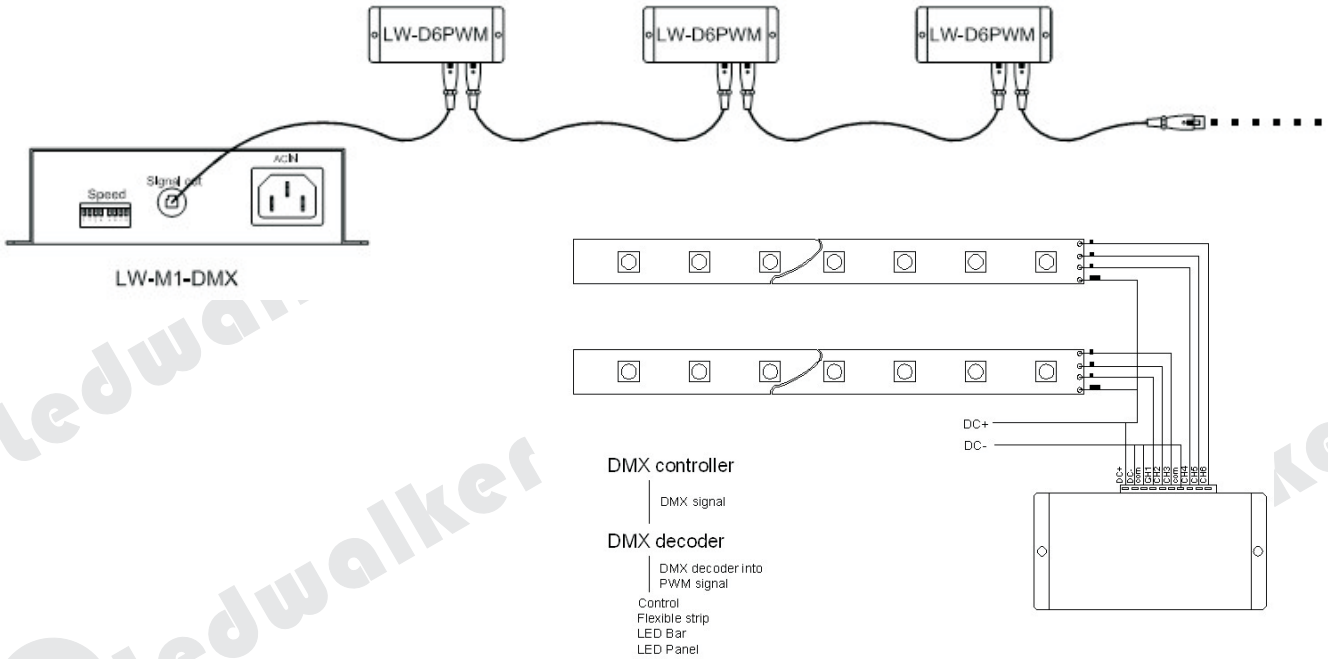
If you want to set the 6 addresses of the decoder 57, 58, 59,60,61,62, and the you should set the beginning address 57, so the 4th, 5th, 6th in down position ON, other position OFF
4th = 008,5th =016,6th = 032

Total value=8+16+32=56, then the beginning address56+1=57
After setting the beginning address 57, then you get the 6 addresses automatically
For address detail please refer to the address table in the file.

Function Testing Description

The 10th position "FUN" on DIP is functional button
FUN=OFF, user can receive DMX512 signal.
FUN=ON for testing (only valid of starting the device, it is invalid after running the device)
1-9 OFF: Black
DIP1=ON: lightened on channel 1
DIP2=ON: lightened on channel 2
DIP3=ON: lightened on channel 3
DIP4=ON: lightened on channel 4
DIP5=ON: lightened on channel 5
DIP6=ON: lightened on channel 6
DIP7=ON: RGB Gradual
DIP8=ON: lightened channel by channel
DIP9=ON: all lightened on channel 1, 2, and 3,4,5,6
Several DIP=ON: lightened on highest position channel

Connection Draw



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