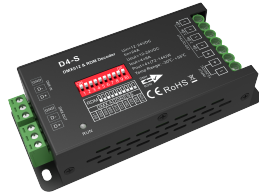


4 Channel Constant Voltage DMX512 & RDM Decoder

Model No.: D4-S

RDM/DIP switch/Logarithmic dimming



CE RoHS EMC LVD

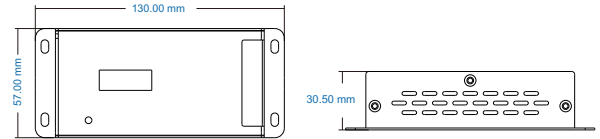
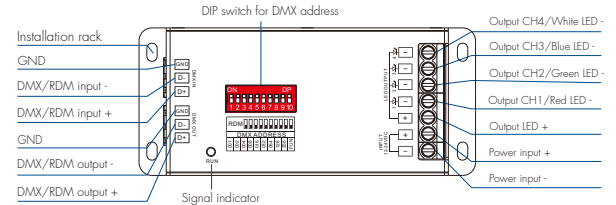
Features

- Comply with the DMX512 standard protocols.
- Set DMX decode start address via DIP switch.
- RDM function can realize intercommunication between DMX master and decoder.
For example, DMX decoder address can be set by DMX master console.
- Green terminal DMX signal input & output.

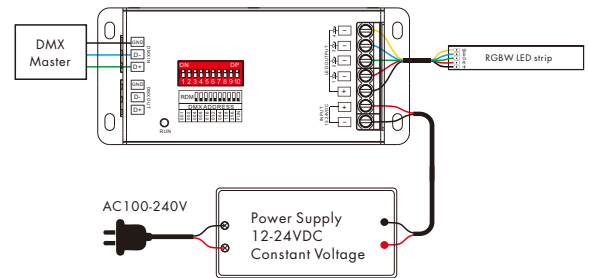
Technical Parameters

Input and Output		Environment	
Input voltage	12-24VDC	Operation temperature	Ta: -30°C ~ +55°C
Input current	24A	Case temperature (Max.)	Tc: +85°C
Output voltage	4 x [12-24]VDC	IP rating	IP20
Output current	4CH, 6A/CH		
Output power	4 x [72-144]W		
Output type	Constant voltage		
Safety and EMC		Warranty and Protection	
EMC standard [EMC]	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4	Warranty	5 years
Safety standard [LVD]	EN 62368-1:2020+A11:2020	Protection	Reverse polarity
Certification	CE, EMC, LVD		
Weight			
Net weight	0.241kg		
Gross weight	0.268kg		

Mechanical Structures and Installations



Wiring Diagram



Note:

1. An DMX signal amplifier is needed if more than 32 decoders are connected, or use overlong signal line, signal amplification should not be more than 5 times continuously.
2. If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each DMX signal line.

DIP Switch



RDM Mode: The DIP switch 1-10 are all OFF.



DMX Mode: FUN=OFF (the 10th DIP switch = OFF)
Setting DMX addresses with DIP switch 1-9.



Self-testing Mode: FUN=ON (the 10th DIP switch = ON)
Setting self-testing mode with DIP switch 1-9.

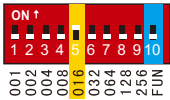
RDM Mode

When change DIP switch 1-10 to OFF, the defaulted DMX start decode address become 1.
then DMX start decode address can be set by DMX/RDM console.

DMX Mode

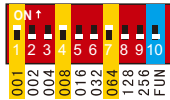
DMX start decode address value = the total value of {1-9}, to get the place value when "on" position,
otherwise will be 0.

E.g.1: Set start address to 16.



001
002
004
008
016
032
064
128
256
FUN

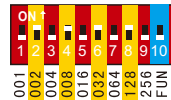
E.g.2: Set start address to 73.



001
002
004
008
016
032
064
128
256
FUN

$$001+008+064=73$$

E.g.3: Set start address to 170.



001
002
004
008
016
032
064
128
256
FUN

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

Self-testing Mode



Static Red Static Blue Static Cyan Static White 6 Colors Smooth

Static Green Static Yellow Static Purple 6 Colors Jumping

1. For dynamic effects (DIP Switch 8,9 = on) : DIP switch 1-7 is used to get 7 speed levels. (7=on, the fastest level)
2. When several DIP switches are on, subjected to the highest switch value.
As the figure above shows, the effect will be 6 colors smooth at 7 speed level.

DMX Dimming

Each D4-S DMX decoder occupy 4 DMX address when connecting the DMX console.
For example, the defaulted start address is 1, their corresponding relationship in the form:

DMX Console	DMX Decoder Output
CH1 0-255	CH1 PWM 0-100% (LED R)
CH2 0-255	CH2 PWM 0-100% (LED G)
CH3 0-255	CH3 PWM 0-100% (LED B)
CH4 0-255	CH4 PWM 0-100% (LED W)

Dimming curve

