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WK LED RGB DMX Controller
LED multifunction multicolor controller
V1. 28

Specification

Before you use this controller, please read it thoroughly.

Function Introduction

WK LED RGB DMX series LED multifunctional full-color controller adopts high-powered microcomputer processor as core, supports DM*512-control agreement interface, may redact more than 30 genus-controlling processes in skipping change & gradual change of adjusting light is from 1 to 100. It can be changed in any way according to your need in the color of lighting, hue & brightness of LED. It can be rectified 100 million in the color of light. , it can set the operating parameter easily through the liquid crystal interface. Moreover, inner the basic power driving module was installed , it can meet the usual need of controlling power, and meanwhile, offer the signal output interface and immensely expands power driving module, also control all the in-phase terminal products

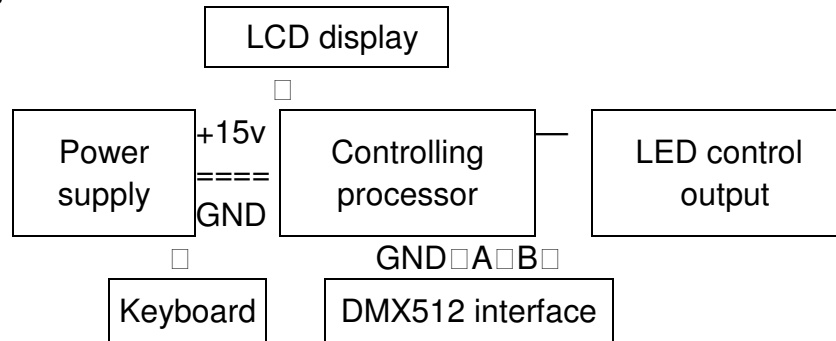
Basic Feature

1. Outside size:**190×120×50(mm)**
2. Transformer voltage:**100V-240V, 50/60HZ**

Basic Function

1. supports DMX512 protocol interface and remotes control
2. more than 30 genus-controlling processes in skipping change & gradual change, can deploy independently run parameter of every formula.
3. Compile automatic run mode, choose destined for formula.
4. Inner there is a drive module in basic power. It meets the need of common controlling power, simultaneity provides output interface of controlling signal. And infinitely extends outside power-drive module outside.
5. Memorize automatically setup parameter.
6. Function of encased renew parameter beforehand set.

Frame Drawing



Specification

4 function setting keys : MODE, SETUP, UP , DOWN.

1. Adjust in turn according to the key MODE

NO.	vision	Explanation
1	BLACK	STATIC BLACK
2	STATIC RED	STATIC RED
3	STATIC GREEN	STATIC GREEN
4	STATIC BLUE	STATIC BLUE
5	STATIC YELLOW	STATIC YELLOW
6	STATIC PURPLE	STATIC PURPLE
7	STATIC CYAN	STATIC CYAN
8	STATIC WHITE	STATIC WHITE
9	COLOR CHANGE	multiple-color skip change
10	COLOR CHANGE2	multiple-color skip change (twinkling)
11	RGB CHANGE	3-color skip change
12	RGB CHANGE2	3-color skip change (twinkling)
13	RG CHANGE	RG SKIP CHANGE
14	RB CHANGE	RB SKIP CHANGE
15	GB CHANGE	GB SKIP CHANGE
16	COLOR SMOOTH	multiple-color general change
17	RGB SMOOTH	3-color general change
18	RG SMOOTH	RG general change

19	RB SMOOTH	RB general change
20	GB SMOOTH	GB general change
21	COLOR GRADUAL	multiple-color gradual bright gradual dark
22	RGB GRADUAL	three-color gradual bright gradual dark
23	RG GRADUAL	RG gradual bright gradual dark
24	RB GRADUAL	RB gradual bright gradual dark
25	GB GRADUAL	GB gradual bright gradual dark
26	R GRADUAL	R gradual bright gradual dark
27	G GRADUAL	G gradual bright gradual dark
28	B GRADUAL	B gradual bright gradual dark
29	ADJUST MODE	RGB color adjusted
30	AUTO PROGRAM	chose program run auto.
31	DMX512 MODE	DMX512 control mode
32	RS485 MODE	RS485 control mode

2.SETUP (1-8 is static without adjust function)

NO.	Parameter Vision	Explanation	
		MAX	MIN
1	RUN SPEED	100	0
2	AUTO SELECT	YES OR NO	
3	LOAD DEFAULT	parameter when leaving factory	

3. UP: Augment parameter key/ Load default

4. DOWN: Reduce parameter key/ Load default

5. LOAD DEFAULT □ Each modality has its load default from the factory independently and saved in the controller solely. It may renew the parameter leaving factory of the modality . Under the AUTO PROGRAM mode , if you use the LOAD DEFAULT then all the modalities parameter will return to the original parameter ..

6. AUTO SELECT: Translate and edit whether the design was selected and operated under the AUTO PROGRAM mode or not.

connection drawing for installment:

Remark:

1. forbid connection with electricity and once you need electrify please check and ensure correct connection firstly.

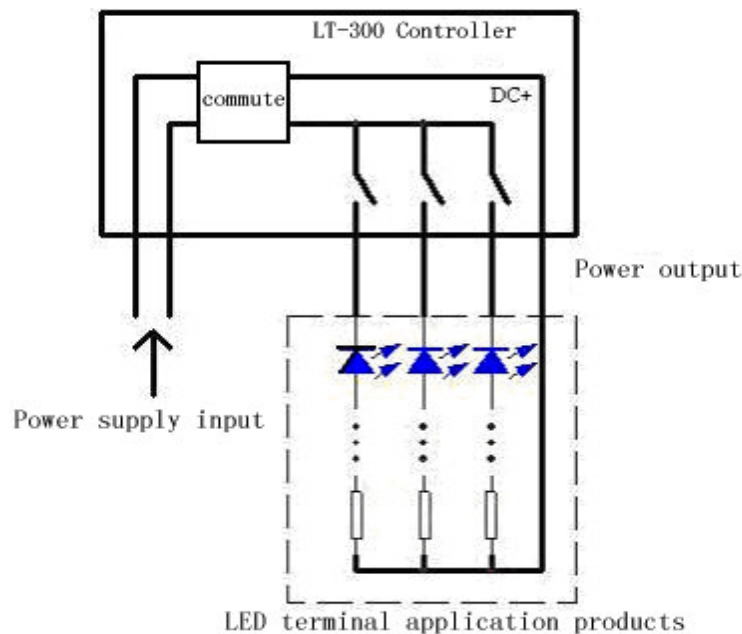
2. Input voltage of alternating current, the output voltage equals to commutate voltage.

3. Input voltage of direct current., the output voltage equals to input voltage.

(operating voltage: **DC12V**)

Input wire: Brown (anode); Black (cathode)

Output wire: White (common wire, DC+); Red (red LED); Green (Green LED); Yellow (blue LED)



After entering DMX512 mode, it can receive 4 route DMX512 signal, original address is adjusted by UP and DOWN (1-512).And take 1 as load original address. for each controller , 4 DMX512 addresses are required .

- 1.the first route,DMX512 data 0-255 controls 29 kinds state
- 2.the second route, DMX512 data 0-255 controls speed:(29 design in total, the percent of R takes up)

numerical value	Run speed
0	0
255	100

- 3.the third route, DMX512 data 0-255 controls speed:(29 kinds design in total , the percent of G takes up)

numerical value	Run speed
0	0
255	100

- 4.the forth route DMX512 date 0-255 controlled speed:(29 kinds design in total , the percentage of B take up)

numerical value	Run speed
0	0
255	100

Remark:

- 1.do not install the controller in the area such as thunder fields , strongly magnetic fields and high voltage areas.
- 2.the controller should be installed indoor , if it needs to install outdoor, please pay attention to waterproof.
- 3.please confirmed the correct connection so as to avoid short circuit with burning the fuse

Failure analysis and solution:

hitch phenomenon	reason analysis	solution
not bright	<ol style="list-style-type: none"> 1. no electricity with pin 2. under the BLACK mode 3. burn the fuse 4. wrong connection 	<ol style="list-style-type: none"> 1. replace the pin 2. change the mode 3. replace the fuse 4. check connection