DIN-DMX-5A
DMX DECODER
(DIN Rail, Screw dual-use)

FC CE RoHS COMPLIANT warranty 5 years SGS UKAS ISO9001:2008

DIN-DMX-5A DIN rail type decoder is designed to convert universal DMX512 signal into PWM signal, it can work with DMX512 console, with 256 levels gray scale output per channel, realize 0-100% brightness and various changing effects, can control single color, two color, RGB LED light. Display DMX address in 3 digits digital tube. Simple, intuitive read and write DMX address, meanwhile have the self-testing pattern function.

1. Product Parameter:

DIN-DMX-5A CV DMX Decoder:

- Input Signal: DMX512
- Input Voltage: DC5V～DC24V
- Max Load Current: 5A ×3CH   Max 15A
- Max Output Power: 75W/180W/360W/(5V/12V/24V)
- Gray Scale Level: 0~256 Levels/CH
- Frame Rate: Max 850 FPS

- Mounting: DIN Rail or Screw
- DIN Rail: TS-35/7.5 or TS-35/15
- Working Temperature: -30℃～55℃
- Dimensions: L112×W35×H67(mm)
- Package Size: L114×W37×H70(mm)
- Weight (G.W): 120g

1

2. Product Size:

DIN rail, screw dual-use

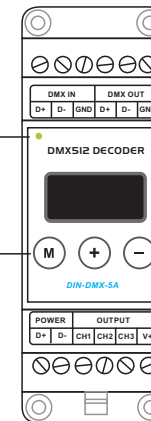Can be installed on DIN rail TS-35/7.5 or TS-35/15
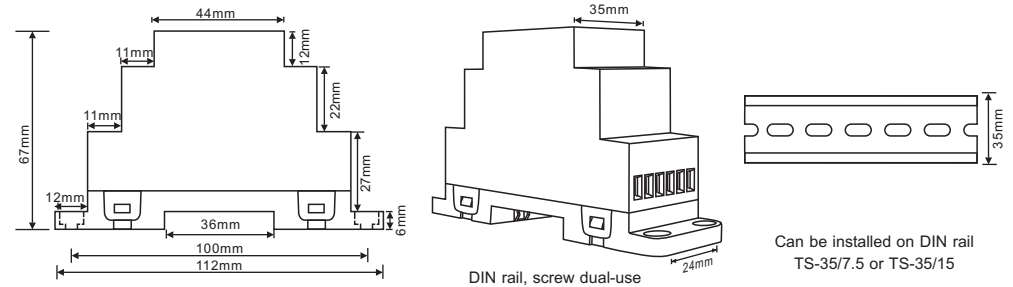
3. Function Key:

Running light
The running lights flash quickly when input DMX signal. Flash frequency depends on received frame rate. The running light flashes as usual without DMX input.

M KEY
Short press: enter DMX decoder mode.
Long press: enter self-testing scene mode.
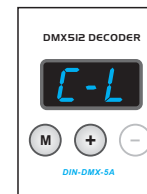
A. DMX Decoder Mode.

Address Setting:
In DMX Decoder Mode, first press "+" or "-" key to enter address setting. Changing the DMX initial address when the 3 address value start to flicker. (Range:001-512)

Short press ⊕ , add one more address, long press⊕ , address increase quickly.
Short press ⊖ , subtract one more address, long press⊖ , address decrease quickly.
Short press Ⓜ to quit.

Long press Ⓜ and ⊕ key at the same time, set the brightness output to linearity curve (C-L).

Long press Ⓜ and ⊖ key at the same time, set the brightness output to Gamma curve (C-E).

Long press ⊕ and ⊖ key at the same time, check the present luminosity curve.

2

B. Self-testing Scene Mode.

Long press "M" key to enter self-testing scene mode.

DMX512 DECODER

P-1

M + −

DIN-DMX-5A

Switch changing modes by pressing ⊕ ⊖ key.

NO.	Digital Tube Display (press +/- to switch)	MODE	Description
1	P-1	Static RED	
2	P-2	Static Green	
3	P-3	Static Blue	
4	P-4	Static Yellow	RED+GREEN=YELLOW
5	P-5	Static Purple	RED+BLUE=PURPLE
6	P-6	Static Cyan	GREEN+BLUE=CYAN
7	P-7	Static White	RED+GREEN+BLUE=WHITE
8	P-8	7 Color Skipping	Fixed Speed, 1 color per second,
9	P-9	7 Color Smooth	Fixed Speed, transient time 2 second, residence time 1 second

C. Restore the Default Parameter: Long press Ⓜ ⊕ ⊖ keys at the same time,

Restore the default parameter, digital tube display "RES".

RES

Default parameters: DMX decoder mode, DMX base address is 1, Gamma curve,
self-test in No.1 pattern status.

4. Conjunction Diagram:

---
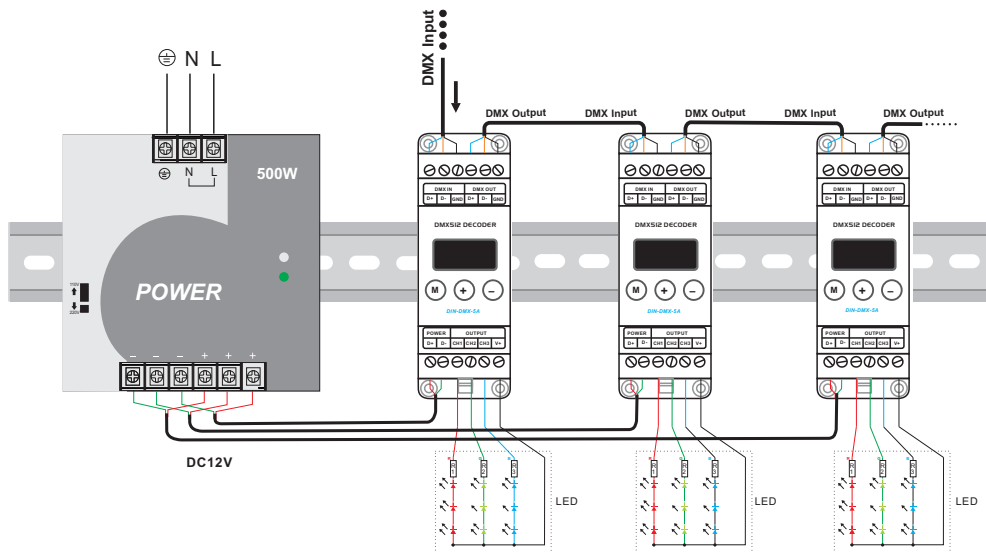
5. DMX Dimming Instruction:

Each DIN-DMX-5A decoder occupied 3 DMX addresses when connecting the DMX console. For instance, defaulting the initial address for the DMX decoder is 1, please find their corresponding relationships in the following form.

DMX Console Channel	DMX Decoder Output Channel
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)

6. Attention:

1) The product shall be installed and serviced by a qualified person.
2) This product is non-waterproof. Please avoid the sun and rain. When installed outdoors please ensure it is mounted in a water proof enclosure.
3) Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
4) Please check if the output voltage of any LED power supplies used comply with the working voltage of the product.
5) Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
6) Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
7) If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

7. Warranty Agreement:

1) We provide lifelong technical assistance with this product:
   ● A 5-year warranty is given from the date of purchase. The warranty is for free repair or replacement and covers manufacturing faults only.
   ● For faults beyond the 5-year warranty we reserve the right to charge for time and parts.
2) Warranty exclusions below:
   ● Any man-made damages caused from improper operation, or connecting to excess voltage and overloading.
   ● The product appears to have excessive physical damage.
   ● Damage due to natural disasters and force majeure.
   ● Warranty label, fragile label and unique barcode label have been damaged.
   ● The product has been replaced by a brand new product.
3). Repair or replacement as provided under this warranty is the exclusive remedy to the customer. LTECH shall not be liable for any incidental or consequential damages for breach of any stipulation in this warranty.
4) Any amendment or adjustment to this warranty must be approved in writing by LTECH only.

★ This manual only applies to this model. Ltech reserves the right to make changes without prior notice.