DIN Rail DMX 512 Decoder 4-Channels 5A

SKU: EL-BC834-DIN













(Please read through this manual carefully before use)

 $Introducing \ our \ DIN \ Rail \ DMX \ 512 \ Decoder \ - \ designed \ for \ constant \ voltage \ LED \ lights. \ This \ decoder \ employs$ advanced micro-computer control technology, seamlessly converting standard DMX512/1990 signals into precise PWM signals. With the flexibility to select between 1 to 4 output channels and an impressive range of 4096 Grey Scales, this device is the perfect fit for your lighting needs.

2. Specifications

- 4CH Constant Voltage Decoder/RJ45
- Input Voltage: DC12V-24V
 Output Current: 6A×4CH
 Output Power: 288W/576W(12V/24V) • Grey Scale: 4096×4

 - Input Signal: DMX512/1990
 Output Signal: Constant Voltage PWM
 Decode Channel: 4CH

 - DMX512 Socket: Terminal Block/RJ45 on: L111 × W46 × H66(mm)
 - Weight(G.W): 138g/133g

5. Dimensions







The decoder has 3 keys, respectively M, +, -; long press "M" for 2 seconds to enter.

М	Change order in 3 digital display	
+	Increase value	
-	Decrease value	

Three-digital-display indicates the current setting value; different value indicates different operating status. Three-digital-display goes off without operation for 30 seconds, press any key to turn it on. When it is overload or short-circuit, the decoder will automatically stop output, LED display shows: "ERR", as

The decoder has an automatic key lock. If no settings are made to the decoder, the key lock function is activated after approximately 15 seconds automatically. Pressing M button for about 2 seconds to deactivated. Subsequently, the decoder can be set.

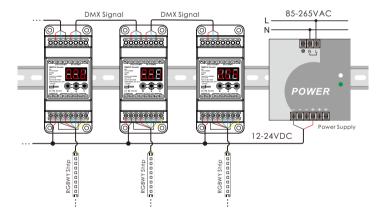
1. DMX Slave Mode: The value is: 001-512, such as: "001"



The decimal point of last digital of the display tube will twinkle regularly when receives DMX512 signal normally. When no signal is received, the decimal point does not twinkle, and showing current DMX address.

7. Wiring Indication

1) Wiring diagram of Master Mode: (Only one decoder is allowed to work as a master)



3. Basic Features

- 1. Automatically adapts input voltage DC12V-24V.
- Input standard DMX512 signal; 3-digital-display shows DMX address code.
 4 channels output; 4096 grey scales each; logarithmic dimming; lamplight soft & stable without strobe flash.
- 4. DMX Master mode, slave mode available.
- 5. Built-in 8 color changing modes and 10 speed scales.6. Indicator of the DMX512 signal receiving status.
- 7. Power loss memory function.
- 8. Wrong wiring protection at DMX port, over current protection and short circuit protection. 9. The DIN rail style design facilitates the installation of large-scale projects.

4. Safety warnings

- To ensure your safety and product properly usage, please read the user manual carefully. To avoid installed the product in minefield, strong magnetic field and high voltage area.

- 3. To ensure the wiring is correct and firm avoiding short circuit damages to components and cause fire.

 4. Please install the product in a well ventilated area to ensure appropriate temperature environment.

 5. The product must be worked with DC constant voltage power supply.

 Please check the consistence of input power with the product, if the output voltage of the power comply with that of the product.

 6. Do not connect the wire with the power on. Ensure proper wiring first then check to ensure no short-circuit, then power on.
- then power on.

 7. Don't repair it by yourself whenever an error occur. Contact Step 1 Dezigns at sales@step1dezigns.com

DMX master mode preset patterns list :

000	All channels to 100%		
513	RED		
514	GREEN		
515	BLUE		
516	MAGENTA		
517	CYAN		
518	YELLOW		
519	ORANGE		
520-529	Red, orange, yellow, green, cyan, blue, magenta (Fading mode)		
530-539	White, magenta, red, orange, yellow, green, cyan, blue (Fading mode)		
540-549	Yellow/orange, red (Fading mode)		
550-559	Magenta blue (Fading mode)		
560-569	Cyan, blue (Fading mode)		
570-579	Green, yellow, (Fading mode)		
580-589	All 4 channels make a pulsating move from 1% to 100% (Fading mode)		
590-599	Strobo for all 4 channels 0% to 100% (Jumping mode)		
1.00-1.99	Red from 0 to 99%	Independent dimming for each	
2.00-2.99	Green from 0 to 99%		
3.00-3.99	Blue from 0 to 99%	channel, automatically memorizing the current dimming	
4.00-4.99	White from 0 to 99%		
5.00-5.99	CW from 0 to 99%	value of each channel.	

 $*520\text{-}599,\;$ First two digital indicate the modes, the third one shows the speed. 10 speed levels ,from 0-9 speed decreasing. Total: 8 modes ,such as :



Mode Speedlevel 4

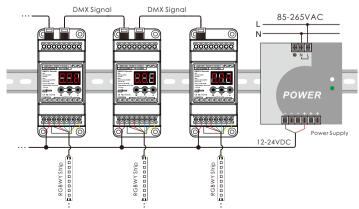
Speed for Program 520 – 589 (Color Changing Fading Mode) for one step and not for the whole program:

0=0,5 sec. | 1=1 sec. | 2=2 sec. | 3=3 sec. | 4=5 sec. | 5=10 sec. | 6=15 sec. | 7=30 sec. | 8=60 sec. | 9=120 sec

Speed for Program 590 - 599 (one step and not for the whole program): 0=0,02 sec. | 1=0,04 sec. | 2=0,1 sec. | 3=0,2 sec. | 4=0,5 sec. | 5=1 sec. | 6=2 sec. | 7=5 sec. | 8=10 sec. |

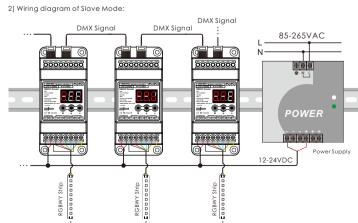
2) Wiring diagram of Slave Mode: DMX Signal **DMX Signal** DMX Signal 85-265VAC 0000000 **₽** 0000000 0000000 8.8.8 8.8.8 8.8.8 • 12-24VDC

1) Wiring diagram of Master Mode: (Only one decoder is allowed to work as a master)



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DEZIGNS LIGHTING INNOVATION



8、After Sales

From the day you purchase our products within 3 years, if being used properly in accordance with the instruction, and quality problems occur, we provide free repair or replacement services except the following cases:

tollowing cases:

1. Any defects caused by wrong operations.

2. Any damages caused by inappropriate power supply or abnormal voltage.

3. Any damages caused by unauthorized removal, maintenance, modifying circuit, incorrect connections and replacing chips.

4. Any damages due to transportation, breaking, flooded water after the purchase.

5.Any damages caused by earthquake, fire, flood, lightning strike etc force majeure of natural disasters.

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6. Any damages caused by negligence, inappropriate storing at high temperature and humidity environment or near harmful chemicals.