

## Description

SB-LED650MA is a 3 channel LED Driver. It is designed and developed by HDL, and used for LED driving by using with the DMX512 Protocol.

## Environmental Conditions

Working temperature :  $-5^{\circ}\text{C}\sim 45^{\circ}\text{C}$   
 Working Relative Humidity : 20%~90%  
 Storage temperature :  $-40^{\circ}\text{C}\sim +55^{\circ}\text{C}$   
 Storage Relative Humidity : 10%~93%  
 IP Class: 2.0

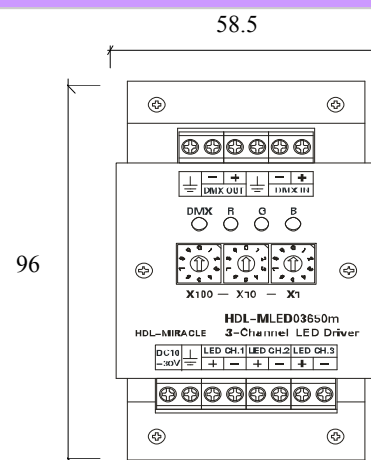
## Features

- 3 outputs for RGB LED
- Power Input: DC10-30V
- Control Signal: DMX512

## Performance Parameters

- Power In : DC10-30V
- Power Out : DC10-30V
- Power consumption without Load :  $<2\text{W}$
- Output channel : 3 channel
- Max Current of Each Channel : 650mA
- Dimension : 96mm $\times$ 58.5mm $\times$ 22.5mm

## Installation Dimension



## Setting of DMX Signal Amplify (In case of Linking)

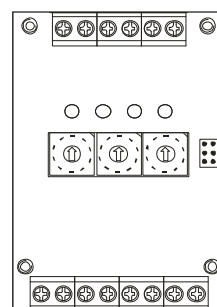
Excessive number of on-line, signal line is too long cases, may lead to weakened and can not properly receive the signal, this time by signal amplification to resolve.

DMX signal between input and output DMX signal can be directly connected by a jumper setting for the connection or through the amplification. Set by the board of six double-pin base, such as the right.

Set is as follows:

Zoom connection settings: 4  $\rightarrow$  6 short  
 3  $\rightarrow$  5 short

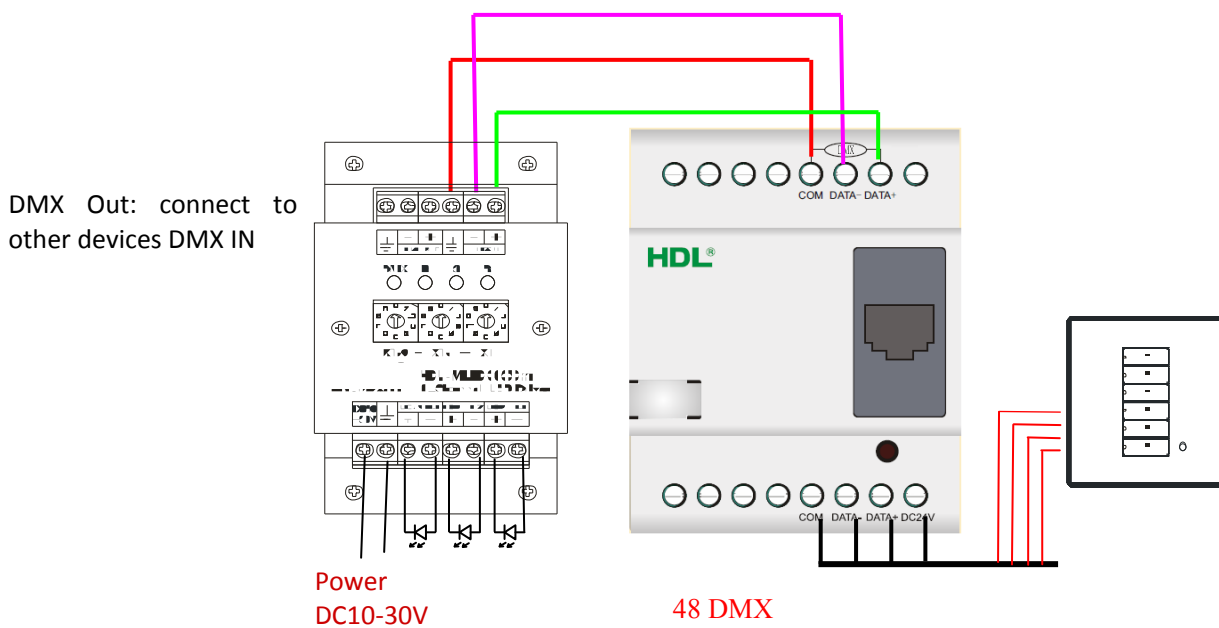
Direct connection settings: 2  $\rightarrow$  4 short  
 1  $\rightarrow$  3 shorted



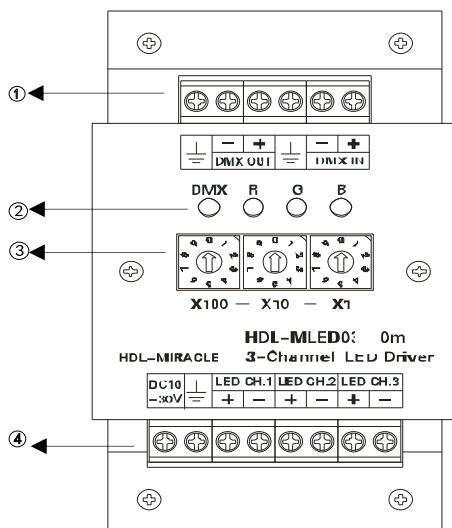
Zoom  
connection  
settings

Direct  
connection  
settings

## Wiring For Installation



## Layout Description



### ① DMX signal connection block

DMX OUT three to the left seat for the DMX512 signal line wiring. Definition from left to port, "" signal "-" signal "+."

DMX IN three to the right seat for the DMX512 signal input wiring. Definition from left to port, "" signal "-" signal "+."

### ② LED

From the left are:

DMX - DMX status or CPU for work lights. In a DMX signal, rapid blinking, as the instructions to receive DMX; No DMX, the slow blinking (2 seconds), as the CPU operating instructions.

R - 1 circuit indicators for the load of the circuit size of the brightness of the red LED lights.

G - 2 loop that indicate the load of the circuit size of the brightness of green LED lights.

B - 3 circuit indicators for the load of the circuit size of the brightness of blue LED lights.

### ③ DMX start channel setting switch and special functions

DMX start channel set: composed of three by three decimal switches, from left are one hundred, ten, a bit, each number corresponds to the switch from the rotation to determine the number indicated by the arrow. Start channel setting range: 001 ~ 512.

Special feature set: mainly for testing the output is normal and output. Set the output status is as follows:

When set to 513, B lights.

When set to 514, G lights.

When set to 515, R lights.

When set to 516, R, G, B light.

When set to 517, R, G, B light off light cycle.

### ④ Input power seat, LED lights and terminals

Left 1,2 bit DC10-30V power input block,

No. 1 for the power supply is, the first two to the power negative.

Left third and fourth bit is the 1-loop R LED terminal blocks,

Section 3 then LED is the first four connected LED negative.

5,6 from left 2 bits for the first loop G LED terminal blocks,

Section 5 then the LED is, the first six connected LED negative.

7,8 bit from the left for the first 3-loop B LED terminal blocks,

Section 7 then the LED is the first 8-bit access LED negative.

## Safety and Maintenance

Read all instructions carefully before use.

To establish a good ventilation environment.

In the course, pay attention to moisture, shock and dust.

Non-rain, other liquids or corrosive gases.

Such as the invasion of moisture or liquid, should be promptly dried.

Machine fails, contact qualified service personnel or the company.