## SLAVE DMX

Ref: 41.046   **12V - 24V**

The DMX decoder includes an advanced micro-control unit that receives the standard DMX-512 digital control signal and converts it to PWM to control the LEDs. The DMX module can be connected to the DMX console for extra power or to change the procedures.

A controller for digital installations using DMX512 with 4 output channels (3A x channel).

The slave DMX protocol changes the analogical signal into a digital one and therefore enables us to freely establish a DMX address.

We recommend the use of RJ45 cables with a DMX signal to enhance signal transmission and also the placing of a RJ45 terminator at the exit of the 41.046 to avoid losses (not included).

It can be connected to a computer or to a DMX mixing panel with a maximum of 512 channels.

| W 144 power | W 288 power | 12V voltage | 24V voltage | IP20 |
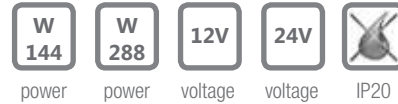
Power (W)	144W (12V)
Power (W)	288W (24V)
Channels	4
Working frequency	50Hz / 60Hz
Amps	3A x channel *
Working temperature	-20ºC / +60ºC
Measurements	164x65x40mm
Weight	320g
Waterproofing	IP20
Packaging	1 unit
Guarantee	2 years

*For installations exceeding 3 amps per channel, we recommend using the 41.022 amplifier.
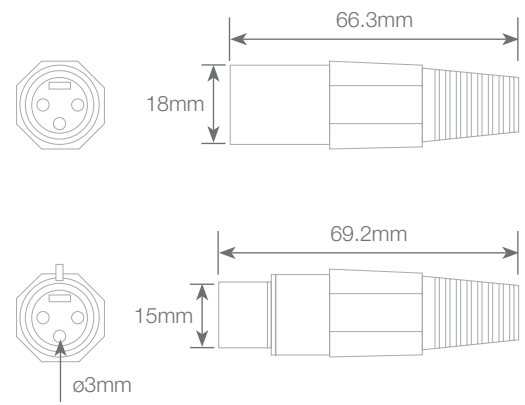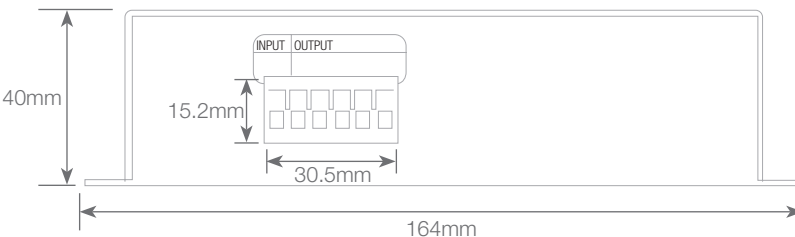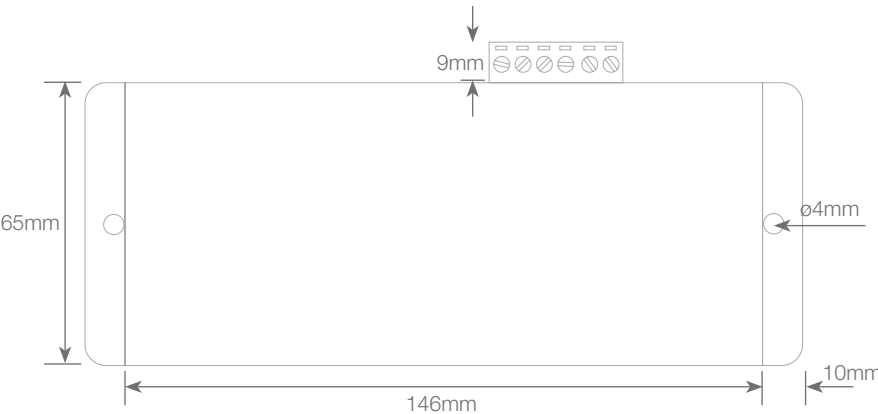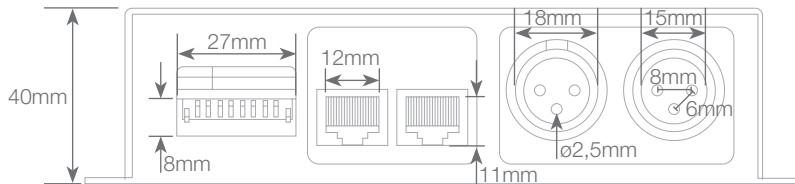
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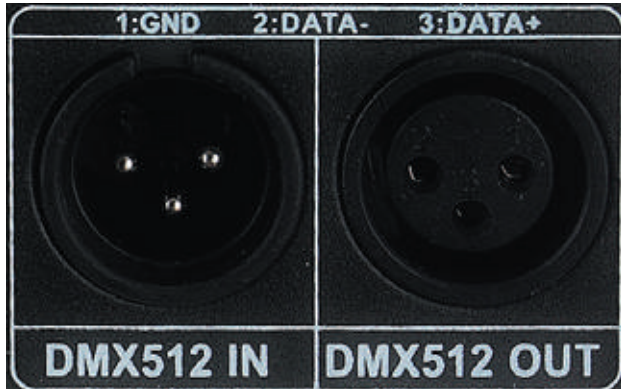centro@luznegra.net
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Interface specifications

DMX interface input/output:

Includes 3 jacks for DMX interface.

Address code and interface function change.

DMX interface 2 input/output:

Uses RJ45 as interface signal.

Power source and interface:

Includes 6 power and interface jacks
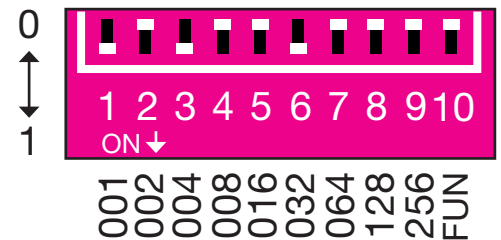
Instructions

Setting up DMX address code:

Each controller uses 3 DMX addresses and has a coding switch to choose the address. This switch has a binary code that establishes the original code of the DMX address from 1 to 9, with 1 being the lowest and 9 being the highest. You can choose up to 511 address codes. The original address of the DMX code is the number added to the switch code from 1 to 9.
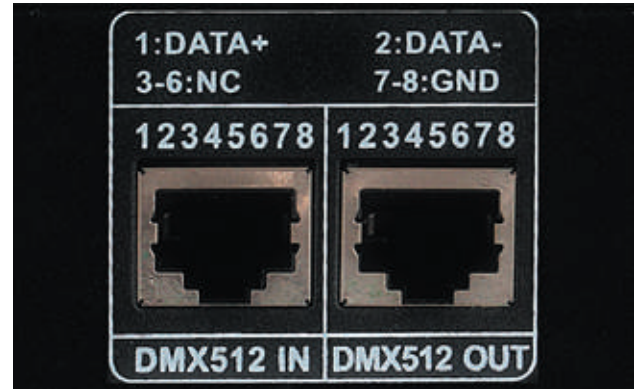
The DMX signal received with the switch FUN(10)=OFF(ON is 0).

Example 1:

Look at the following image, if you want to set the address code as 37, you can only choose the first, third and sixth coding switches. The number added in coding the switch value from 1 to 9 is 32+4+1, meaning the original code for the DMX512 address is 37.
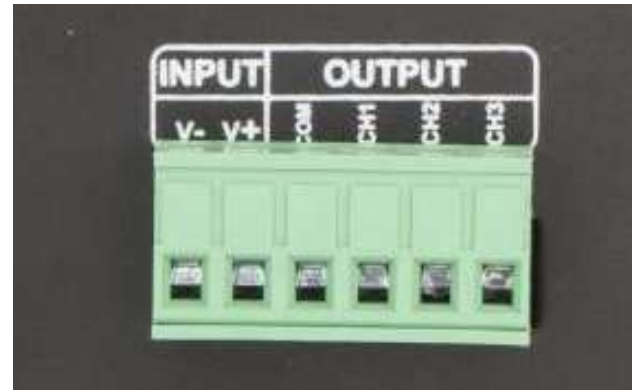
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Example 2:

Look at the following image, if you want to set the address code as 328, you can only choose the ninth, seventh and fourth coding switches. The number added in coding the switch value from 1 to 9 is 256+64+8, meaning the original code for the DMX512 address is 328.

Other functions and instructions

Test function:

The tenth bit on the coding switch is "FUN", which is a function incorporated in a button. FUN=OFF Shows the function of the DMX decoder, ready to receive a DMX signal.

The preset value of the coding switch 1-9 is off: black

Switch1 = ON: red

Switch2=ON: green

Switch3=ON: blue

Switch4=ON: yellow

Switch5=ON: purple

Switch6=ON: cyan

Switch7=ON: white

Switch8=ON: gradual jump between seven colours (8 speeds)

Switch9=ON: gradual jump between seven colours (8 speeds)

The jump speed chosen changes the effect gradually

In the function test, switch 8=ON shows a gradual jump between the seven colours and switch 9=ON shows a gradual jump with effect between the seven colours, each effect has 8 speeds:

Switch OFF from 1 to 7:0 levels Switch1=ON: 1 level
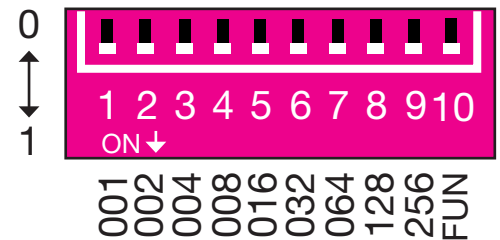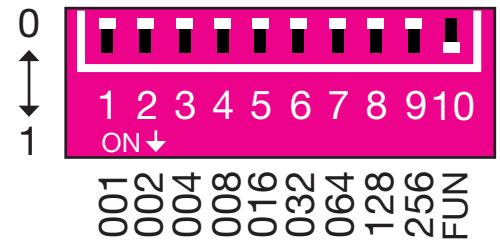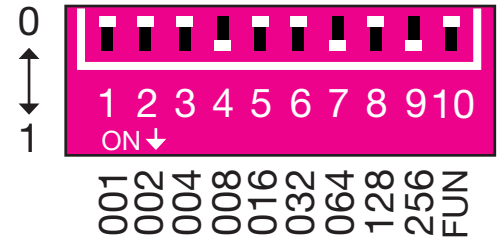
Switch2=ON: 2 levels

Switch3=ON: 3 levels

Switch4=ON: 4 levels

Switch5=ON: 5 levels Switch6=ON: 6 levels

Switch7=ON: 7 levels (maximum speed)

If there are several switches=ON at the same time, the highest speed is the standard. As shown in the image, all the coding switches marked=ON show the status of the decoder, to test the function of gradual changes the change speed is 7.
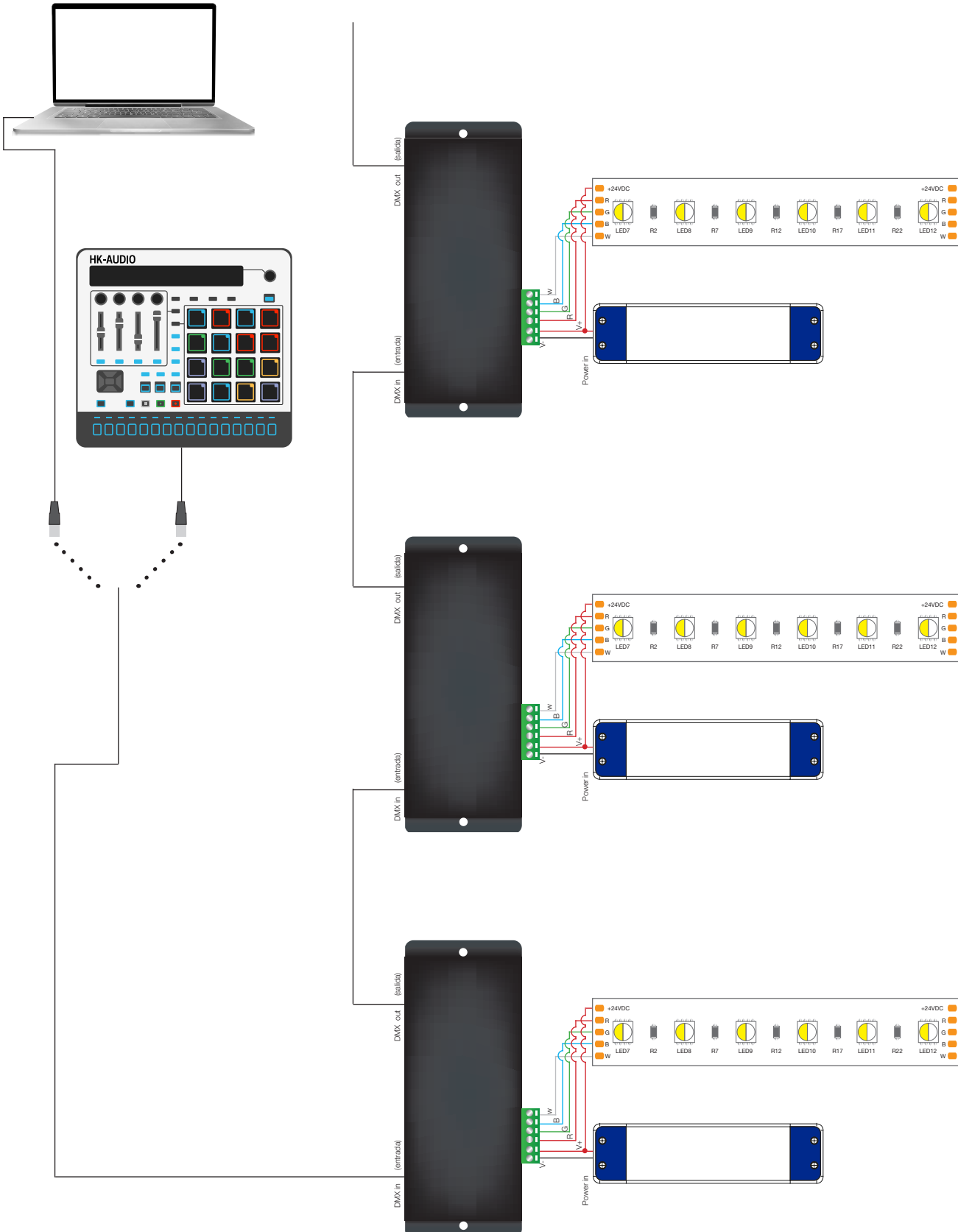
Connection diagram: