

# USER MANUAL

## LED RGB DRIVER F6324265



### FACTORY AND HEAD OFFICE.

SAFE RAIN S.L.

C/ COBRE Nº6

45520 VILLALUENGA DE LA SAGRA

(TOLEDO) SPAIN

Tlf. +34 925 531 480

FAX: +34 925 530 257

E MAIL: [info@saferain.com](mailto:info@saferain.com)

<http://www.saferain.com>

### PREFACE

Welcome to SAFERAIN S.L. Congratulations on the purchase of the F6324265 RGB LED driver. We hope not to disappoint the expectations placed on the product and our company.

Carefully read the instructions for use and become familiar with the equipment before using it for the first time. All work with this equipment should only be carried out in accordance with these instructions.

Always take into account the safety instructions in order to guarantee the correct and safe use of the equipment. Carefully keep these instructions for use.

## Table of Contents

|      |                                          |    |
|------|------------------------------------------|----|
| 1    | General description. ....                | 3  |
| 2    | Safety conditions .....                  | 3  |
| 3    | Connector and control elements, .....    | 4  |
| 4    | Designation of displayed messages.....   | 5  |
| 5    | Button features.....                     | 6  |
| 6    | Group DMX address settings. ....         | 6  |
| 7    | Individual DMX address settings. ....    | 7  |
| 8    | Color settings mode.....                 | 8  |
| 9    | No DMX signal response. ....             | 10 |
| 9.1  | Description of programs. ....            | 11 |
| 10   | Master / Slave function. ....            | 12 |
| 11   | White balance.....                       | 13 |
| 12   | Limiting the output power. ....          | 14 |
| 13   | Smooth. ....                             | 14 |
| 14   | Light control frequency.....             | 15 |
| 15   | Screen saving (screen blanking). ....    | 16 |
| 16   | Default settings and device errors. .... | 16 |
| 16.1 | Restore default settings.....            | 16 |
| 16.2 | Error message.....                       | 17 |
| 17   | Display function.....                    | 17 |
| 18   | DMX signal connecting .....              | 18 |
| 19   | RDM – available parameters.....          | 18 |
| 20   | Programming. ....                        | 21 |
| 21   | Connection scheme. ....                  | 22 |
| 22   | Dimensions. ....                         | 23 |
| 23   | Technical data.....                      | 24 |

## 1 General description.

F6324265 driver is designed to control the LEDs. Built-in DMX receiver allows to control 3 DMX channels.

(R, G, B) directly with the DMX protocol. Wide range of power supply voltage and high current carrying capacity outputs (6A) permit a control of large quantities of LEDs. What is more the F6324265 has built-in fuses that can be replaced by the user by himself.

F6324265 can be either controlled by DMX, and act independently. In this case, the user is offered a fully programmable scene and 18 pre-programmed sequences, which can also freely change the playback speed and fluidity changes in steps. By using 16-bit resolution control of each channel is completely smooth. Driver F6324265 can operate in different control modes: 2b – brightness and one of the 256 colors define by the manufacturer, 3b – each color RGB can be set separately, 3bd – each color RGB can be set separately and dimmer (dimming all outputs), 3bS – each color RGB can be set separately, frequency “strobo” and fill factor, HSL – responsible for hue, saturation and lightness, dW – dynamic white (tunable white), control channels cold and warm white, EFF – it is available on 7 DMX channels and control R, G, B, Mode, Speed, Fade and Brightness.

The driver has a built-in tuning frequency signal system ("flicker free" technology), which makes it particularly useful in applications for the television industry. The RGB LEDs often differ quite substantially in parameters, this can cause problems in obtaining a white color (at full power especially). Therefore F6324265 comes with a very useful function called "white balance".

Thanks to it you can choose color correction for each set of LEDs controlled by the device to achieve at full power the color white.

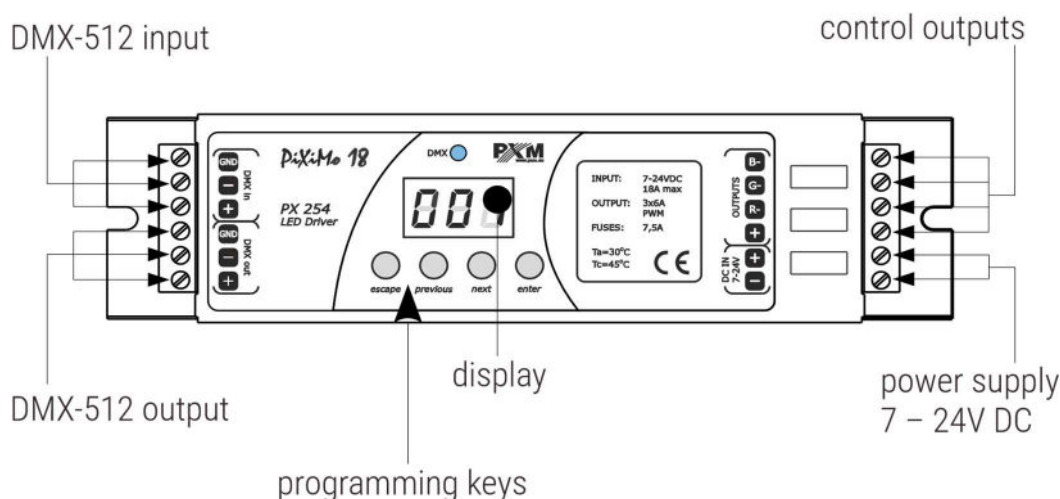
## 2 Safety conditions

F6324265 is a device powered with safe voltage 7 – 24V; however, during its installation and use the following rules must be strictly observed:

1. The device may only be connected to 7 – 24V DC with current-carrying capacity compatible with technical data.

2. All the conductors should be protected against mechanical and thermal damage.
3. In the event of damaging any conductor, it should be replaced with a conductor of the same technical data.
4. Connection of power supply can only be made with a conductor of minimum cross-section area of 2,5mm<sup>2</sup> and DMX signal with shielded conductor.
5. All repairs and connections of outputs or DMX signal can only be made with cut off power supply.
6. F6324265 should be strictly protected against contact with water and other liquids.
7. All sudden shocks, particularly dropping, should be avoided.
8. The device cannot be turned on in places with humidity exceeding 90%.
9. The device cannot be used in places with temperature lower than 2°C or higher than 40°C.
10. Clean with damp duster only.

### 3 Connector and control elements,



## 4 Designation of displayed messages.

|     |                                                         |
|-----|---------------------------------------------------------|
| 000 | DMX address of a device – a basic item in the MENU      |
| 888 | setting parameters for all channels simultaneously      |
| 888 | setting parameters for each channel individually        |
| EE8 | inverting the meter display 180 degrees                 |
| 888 | DMX address setting                                     |
| EE8 | control method selection (RGB, Lightness / Color, etc.) |
| 888 | no DMX signal response method selection                 |
| EE8 | Master / Slave mode settings                            |
| 288 | Lightness / Color control mode                          |
| 388 | RGB control mode                                        |
| 388 | RGB Dimmer control mode                                 |
| 388 | RGB Shutter control mode                                |
| H58 | HSL control mode – Hue / Saturation / Lightness         |
| EE8 | effect control mode                                     |
| 888 | dynamic white mode                                      |
| 888 | all outputs at 100%                                     |
| 8EE | all outputs off                                         |
| 588 | scene                                                   |
| 888 | program no. 17                                          |
| 888 | DMX address settings for first channel                  |
| EE8 | Master mode on / off                                    |
| EE8 | number of channels being sent in the Master mode        |
| 888 | white color balance setting                             |
| 888 | red balance                                             |

|            |                                                 |
|------------|-------------------------------------------------|
| <b>BBB</b> | green balance                                   |
| <b>BBB</b> | blue balance                                    |
| <b>BBB</b> | white color balance on / off                    |
| <b>SPB</b> | program playback speed                          |
| <b>FRB</b> | level of steps change smoothness in the program |
| <b>RRB</b> | red color during scene programming              |
| <b>GBB</b> | green color during scene programming            |
| <b>BBB</b> | blue color during scene programming             |
| <b>FRB</b> | basic frequency of brightness control           |
| <b>SEB</b> | screen blanking                                 |
| <b>ERB</b> | memory error message                            |
| <b>BBB</b> | restore default device settings menu            |

## 5 Button features.

**escape** – goes back to the previous MENU level or discards changes made.

**previous** – scrolls to the previous feature on the same MENU level or decreases the parameter's value .

**next** – scrolls to the next feature on the same MENU level or increases the parameter's value

**enter** – enters the next MENU level and confirms changes made.

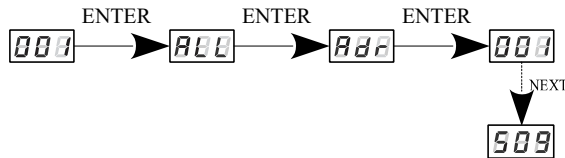
## 6 Group DMX address settings.

The menu of the F6324265 driver allows for setting the DMX address within a range between 1 and 506 – 511 depending on work mode of device.

For example in RGB mode it occupies three consecutive DMX addresses. If start address is set to 510, the last channel is occupied by address 512.

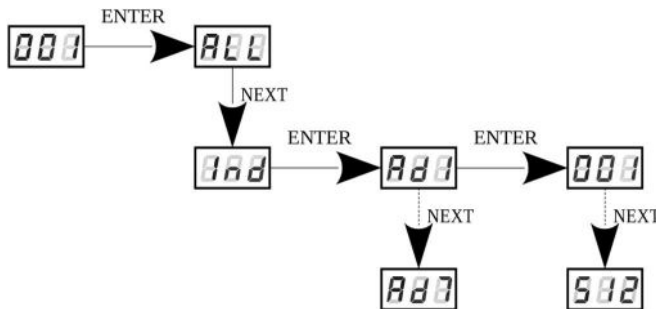
### To set the DMX address:

1. Set the “Adr” function.
2. Use the “next” or “previous” buttons to set the selected DMX address.
3. Push the “enter” button to confirm choose.

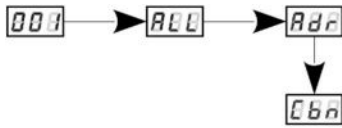


## 7 Individual DMX address settings.

The F6324265 module has an option that allows for changing individual settings. It enables assigning any DMX address to every output channel. The simplest example of implementation of this function is to control the lightness of one-color LEDs connected to all outputs. In such case, the same address must be assigned to all channels so that all outputs are controlled by one slider on the control panel.



## 8 Color settings mode.



The F6324265 driver can operate in different control modes.

Depending on the selected mode, the device takes up a different number of channels, possible modes:

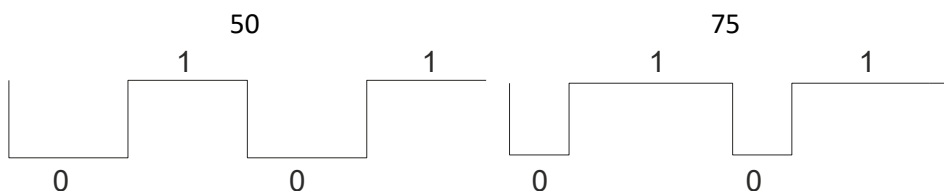
**The HSL mode** (Hue, Saturation, Lightness) operates on three channels, responsible for hue, saturation and lightness.

**The 3bd mode** (4-channel, 4-byte) allows for setting each colour individually: R (red), G (green), B (blue) and on the fourth channel, the Dimmer function is implemented – dimming all outputs

**The 3bS mode** (3 RGB channels + Shutter) 6-channel mode allows to set each color separately on channels 1 – 3: R, G, B, and has an additional Shutter function. Channels 4 and 5 are

responsible for frequency, of which channel 4 is responsible for roughing frequency (MSB) – not very accurate and channel 5 for accurate (LSB) – for precise setting of the desired frequency after set roughing frequency. The frequency range is 5 – 365Hz. The channel number 6 corresponds to the fill factor in this mode and can be set in range 0 – 100, where 0 is complete switching off all outputs, 50 is equal switching on and off times, setting to 100 causes continuous lighting.

Example:



where 1 means the outputs are on and 0 are off

The **3b** mode (3-channel, 3-byte) each color (R, G, B) can be set separately

The **2b** mode (2-channel, 2-byte) consists in selecting lightness and one of the 256 colors defined by the manufacturer

The **dW** – dynamic white – control of channel: cold white + warm white, by means of two DMX channels. The first DMX channel is responsible for color temperature and the other channel – for lightness.

The **EFF** mode – effects control – it is available on 7 DMX channels and allows to choose the right effect and parameters (description of the *EFF* mode is on the next page)

Description guide of *EFF* mode settings

| CHANNEL 1<br>RED | CHANNEL 2<br>GREEN | CHANNEL 3<br>BLUE | CHANNEL 4<br>MODE    | CHANNEL 5<br>SPEED | CHANNEL 6<br>FADE | CHANNEL 7<br>BRIGHTNESS |
|------------------|--------------------|-------------------|----------------------|--------------------|-------------------|-------------------------|
| -                | -                  | -                 | <0–7> Program 1      | x                  | x                 | x                       |
| -                | -                  | -                 | <8–15> Program 2     | x                  | x                 | x                       |
| -                | -                  | -                 | <16–23> Program 3    | x                  | x                 | x                       |
| -                | -                  | -                 | <24–31> Program 4    | x                  | x                 | x                       |
| -                | -                  | -                 | <32–39> Program 5    | x                  | x                 | x                       |
| -                | -                  | -                 | <40–47> Program 6    | x                  | x                 | x                       |
| -                | -                  | -                 | <48–55> Program 7    | x                  | x                 | x                       |
| -                | -                  | -                 | <56–63> Program 8    | x                  | x                 | x                       |
| -                | -                  | -                 | <64–71> Program 9    | x                  | x                 | x                       |
| -                | -                  | -                 | <72–79> Program 10   | x                  | x                 | x                       |
| -                | -                  | -                 | <80–87> Program 11   | x                  | x                 | x                       |
| -                | -                  | -                 | <88–95> Program 12   | x                  | x                 | x                       |
| -                | -                  | -                 | <96–103> Program 13  | x                  | x                 | x                       |
| -                | -                  | -                 | <104–111> Program 14 | x                  | x                 | x                       |
| -                | -                  | -                 | <112–119> Program 15 | x                  | x                 | x                       |
| -                | -                  | -                 | <120–127> Program 16 | x                  | x                 | x                       |
| -                | -                  | -                 | <128–135> Program 17 | x                  | x                 | x                       |
| -                | -                  | -                 | <136–143> Program 18 | x                  | x                 | x                       |
| -                | -                  | -                 | <144–151> OFF        | -                  | -                 | -                       |
| x                | x                  | x                 | <152–169> Strobo 10% | x                  | -                 | x                       |
| x                | x                  | x                 | <170–199> Strobo 20% | x                  | -                 | x                       |
| x                | x                  | x                 | <200–229> Strobo 50% | x                  | -                 | x                       |
| x                | x                  | x                 | <230–255> RGBD       | -                  | -                 | x                       |

*Channel 1* – red color

*Channel 2* – green color

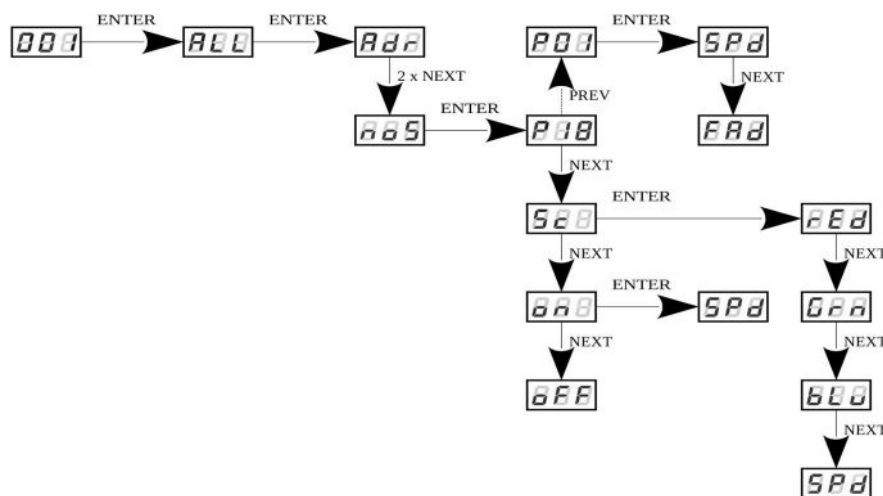
*Channel 3* – blue color

*Channel 4* – operating mode selection

*Channel 5* – speed settings (higher value – quicker changes)

*sign "x"* – possibility to control a given parameter of a selected mode *sign "-"* – no possibility to control a given parameter of a selected mode.

This function is used both to protect the installation against the DMX signal loss and to obtain control over LEDs without connecting an external controller. Once it is activated, if there is no DMX signal the module will realize a desired function independently. Reconnecting the DMX signal will automatically break the realized function and the module will once again follow the commands transmitted via the DMX line.



**Sc**—self-programmed scene in which it possible to set values for RGB colors (**rEd**, **Grn**, **bLu**) in range **0 – 255** for each color separately. Additionally can set the scene entry time (**SPd**) after decay DMX signal in range **0,1 – 99,9s**.

**on** – activation of all outputs at 100% with the possibility of setting the switch-on time (**SPd**) all outputs after decay DMX signal

**oFF** – disabling all outputs after DMX signal loss

## 9.1 Description of programs.

The following tables show the values for each output channel (R, G, B) in programs from 1 up 18 (P01 – P18). The value 255 corresponds to the maximum lightness level on a given channel, 127 – 50% of power level, 0 – full channel blanking.

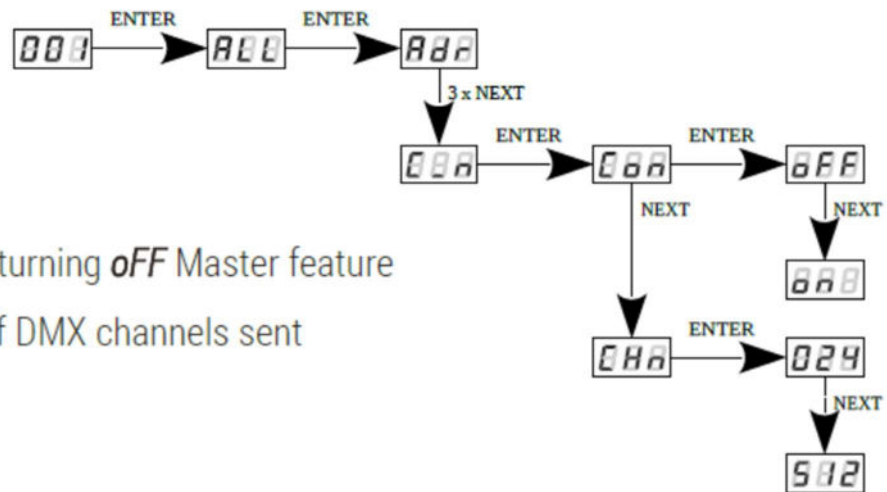
|        |       | P01 | P02 | P03 | P04 | P05 | P06 | P07 | P08 | P09 |
|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Step 1 | RED   | 255 | 0   | 0   | 0   | 255 | 255 | 0   | 255 | 0   |
|        | GREEN | 0   | 0   | 0   | 0   | 0   | 0   | 255 | 0   | 255 |
|        | BLUE  | 0   | 255 | 0   | 0   | 0   | 0   | 255 | 0   | 0   |
| Step 2 | RED   | 0   | 0   | 255 | 0   | 255 | 255 | 255 | 0   | 0   |
|        | GREEN | 255 | 255 | 0   | 0   | 255 | 0   | 0   | 255 | 0   |
|        | BLUE  | 0   | 0   | 0   | 255 | 0   | 255 | 255 | 0   | 255 |
| Step 3 | RED   | 0   | 255 | 0   | 0   | 0   | 0   | 255 |     |     |
|        | GREEN | 0   | 0   | 0   | 0   | 255 | 0   | 255 |     |     |
|        | BLUE  | 255 | 0   | 0   | 0   | 0   | 255 | 0   |     |     |
| Step 4 | RED   |     |     | 0   | 0   | 0   | 0   |     |     |     |
|        | GREEN |     |     | 255 | 255 | 255 | 255 |     |     |     |
|        | BLUE  |     |     | 0   | 0   | 255 | 255 |     |     |     |
| Step 5 | RED   |     |     | 0   | 0   | 0   | 0   |     |     |     |
|        | GREEN |     |     | 0   | 0   | 0   | 255 |     |     |     |
|        | BLUE  |     |     | 0   | 0   | 255 | 0   |     |     |     |
| Step 6 | RED   |     |     | 0   | 255 | 255 | 255 |     |     |     |
|        | GREEN |     |     | 0   | 0   | 0   | 255 |     |     |     |
|        | BLUE  |     |     | 255 | 0   | 255 | 0   |     |     |     |

|        |       | P10 | P11 | P12 | P13 | P14 | P15 | P16 | P17 | P18 |
|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Step 1 | RED   | 255 | 0   | 0   | 0   | 255 | 0   | 0   | 0   | 0   |
|        | GREEN | 0   | 0   | 0   | 0   | 0   | 255 | 0   | 127 | 0   |
|        | BLUE  | 0   | 0   | 0   | 0   | 0   | 0   | 255 | 255 | 0   |
| Step 2 | RED   | 0   | 255 | 0   | 0   | 255 | 127 | 127 | 127 | 255 |
|        | GREEN | 0   | 0   | 255 | 0   | 127 | 255 | 0   | 255 | 255 |
|        | BLUE  | 255 | 0   | 0   | 255 | 0   | 0   | 255 | 127 | 255 |
| Step 3 | RED   |     |     |     |     | 255 | 0   | 0   | 255 |     |
|        | GREEN |     |     |     |     | 0   | 255 | 0   | 127 |     |
|        | BLUE  |     |     |     |     | 0   | 0   | 255 | 0   |     |
| Step 4 | RED   |     |     |     |     | 255 | 0   | 0   | 127 |     |
|        | GREEN |     |     |     |     | 0   | 255 | 127 | 0   |     |
|        | BLUE  |     |     |     |     | 127 | 127 | 255 | 127 |     |

## 10 Master / Slave function.

The F6324265 module has a built-in DMX-512 receiver and can be controlled from any desktop or controller running in this standard. Moreover, it is equipped with a programmable function of response to no DMX signal (noS). With 18 built-in default programs, it is possible to obtain interesting effects without an external controller. However, in larger installations, several F6324265 drivers implementing the same program cannot provide a full playback synchronization. Therefore, F6324265 has a Master feature. When it is activated, the module changes from a DMX receiver into a transmitter of this signal and sends programs to the other modules (which are set as Slave). If the Master function is active, this is indicated by a fast flashing of the DMX signaling diode.

With this solution, it is possible to make a precise synchronization even in very large installations without using an external controller.

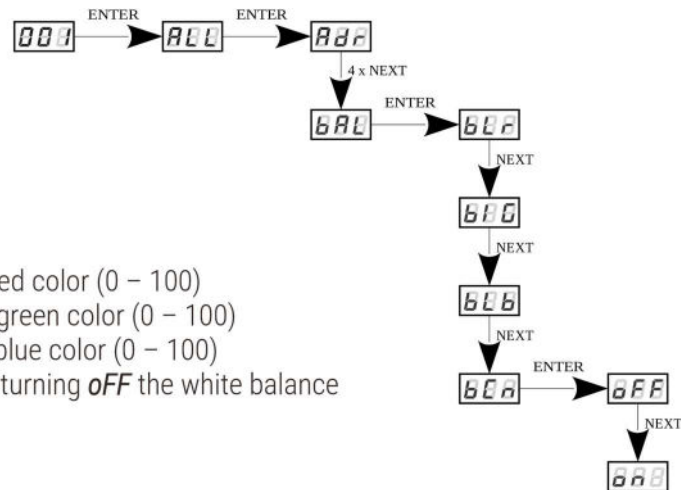


*Con* – turning *on* or turning *off* Master feature

*Chn* – the number of DMX channels sent

## 11 White balance.

Sometimes, there can be problems with getting white color on the RGB series LEDs. This may be a result of using diodes with different technical parameters. For this reason, the F6324265 module is equipped with a white balance function. This option allows for choosing a correct color temperature for full activation of all 3 outputs (white color).



*bLr* – value for the red color (0 – 100)

*bLG* – value for the green color (0 – 100)

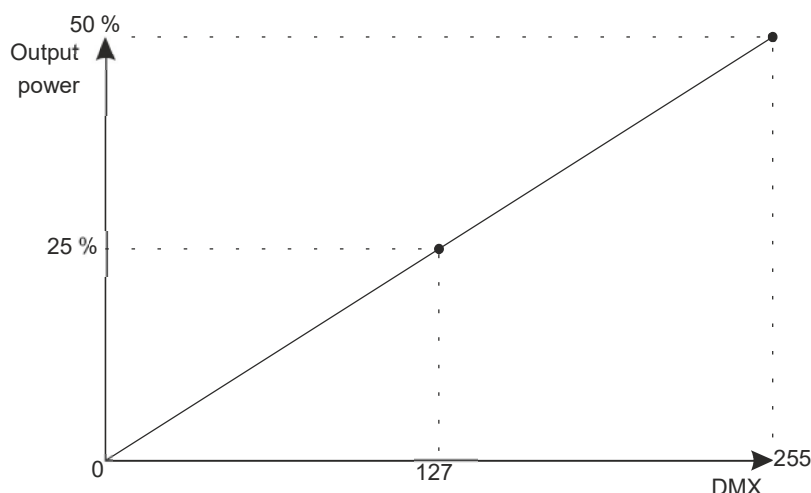
*bLb* – value for the blue color (0 – 100)

*bCn* – turning *on* or turning *off* the white balance

## 12 Limiting the output power.

The white balance parameter, apart from its original functionality, can also be used to limiting the output power of the driver. It works linearly and in a percentage way limits the output power of a given channel.

For example, if the *bLr* parameter is set on 50, it means that by the DMX control and no signal mode this value can not be exceeded. The control will only operate within the range 0 – 50% of the output value for this channel.



For the activate this function, the *bCn* parameter must be set to “on”.

Available power limitation values:

***bLr*** – the output power limitation value for the red channel (0 – 100)%

***bLG*** – the output power limitation value for the green channel (0 – 100)%

***bLb*** – the output power limitation value for the blue channel (0 – 100)%

***bCn*** – turning *on* or turning *off* the limiting the power output

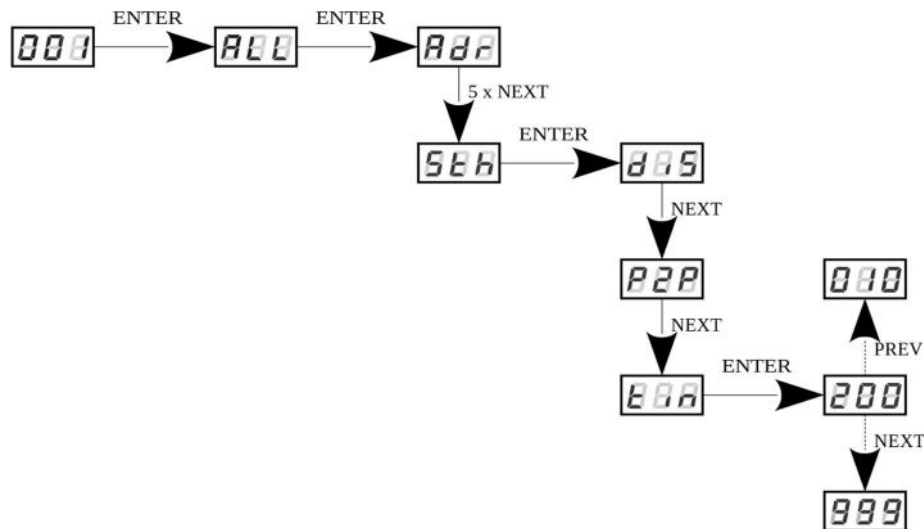
The menu diagram for Limiting the output power is analogous to that in chapter 11 White balance (previous page).

## 13 Smooth.

The driver is equipped with a smooth option. Smooth feature allows for smooth changes in lightness and colour. When it is set to On the transition between successive DMX values sent to the lamp (e.g. corresponding to changes in lightness) are smooth with no visible twitches, which prevents the common light “vibrations” effect. Two consecutive DMX values sent to the

lamp are smoothed linearly between the DMX signal packets for the selected **P2P** option or the time interval set in the **E88** menu in range 10 – 999ms.

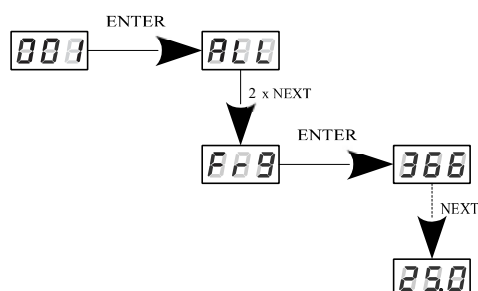
The smooth function may slightly slow down the lamp's response rate to changes in the DMX signal; therefore, it is possible to disable this option. This can be done by checking the **885** parameter and confirming the selection by pressing “enter”.



## 14 Light control frequency.

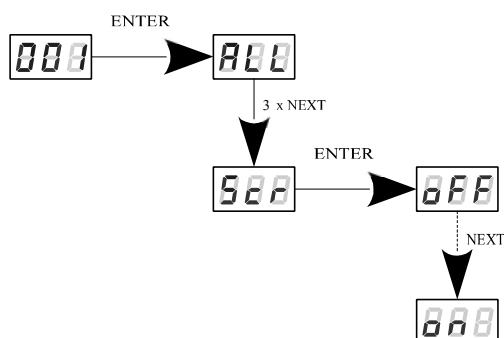
The Frq function allows for setting the basic control frequency for the LEDs. This function is extremely useful in applications for the television industry. By applying the "flicker free" technology, it is possible to avoid the unpleasant flickering effect which is caused by improper signal synchronization that controls the LEDs. The user can choose from the available frequency range from 366Hz up to 25.0kHz which can be smoothly changed using the “previous” or “next” buttons and selecting a different value.

The frequency value in the upper range (e.g. 1.50 = 1.5kHz) helps to avoid the flickering effects that are visible in video cameras.



## 15 Screen saving (screen blanking).

The device is equipped with a feature that allows for turning off the backlight. This option is marked with the SCr sign. With this feature, the display is turned off after about 60s (if the keys of the device are not pressed). Of course, the device continues its operation without interfering with other parameters. Press any key to restore the backlight.



## 16 Default settings and device errors.

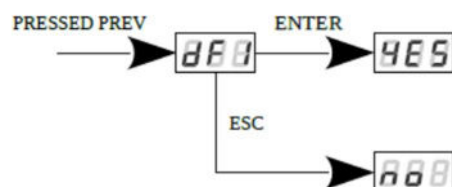
If you have any difficulty accessing the device menu, e.g. it is not possible to enter a particular menu level or it is necessary to restore the device to its default settings, follow the instructions below.

In the first case, when a particular menu level cannot be accessed or menu items are displayed incorrectly, this may indicate that a saving-in-memory error has occurred. In such a case, try to restore the device to its default settings before sending the F6324265 to the service center. If, after restoring to its default settings, the device still does not operate correctly, please send it to our service center.

### 16.1 Restore default settings.

To restore the device to its default settings, press and hold the “previous” key while switching on the device. One of the messages that will be displayed will say dFI, which means successful restoring to default settings (the “previous” key has to be held down while powering on the device, until the dFI message is displayed).

If this message is accepted by pressing “enter”, the default settings will be restored. The user can also exit this menu level without restoring the default settings. In order to do this, press the “escape” key.



Please note that after restoring to default settings, all the operating parameters of the device will revert to the following ones:

- **DMX address:** 1
- **driver operating mode:** RGB (3b – 3 byte)
- **master mode:** off
- **number of sent DMX channels:** 128
- **white balance:** off
- **no signal operating mode:** scene (all channels controlled at 50%)
- **frequency:** 366Hz
- **smooth function:** off

## 16.2 Error message.

The device is equipped with a built-in memory work control function. If there are problems with the memory operation on the F6324265 display, the Err message appears – memory error.

In this situation, select the “enter” key. The device will reload the default configuration and upload it to the memory. If after this operation, the Err message remains on the screen, the memory is permanently damaged and the unit must be sent to the service point.

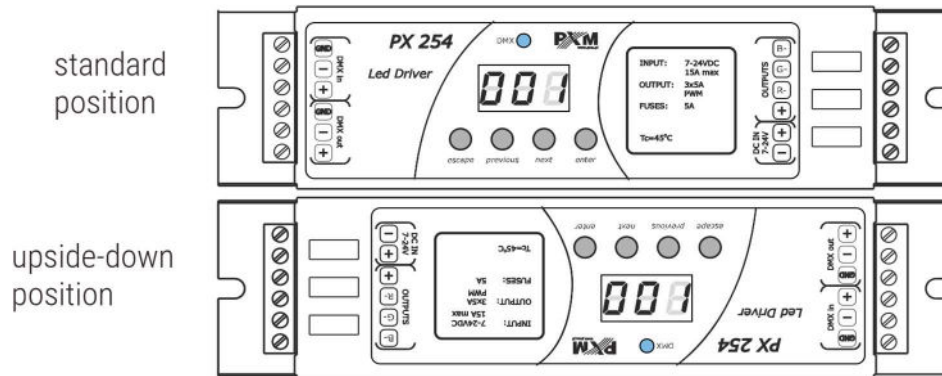
## 17 Display function.

As the driver should be installed (As far as possible) in a small distance from the controlled LEDs, the lack of space may force the necessity of mounting the device upside-down. In such case the displayed messages become illegible, that does not have the influence on device operation, but makes the programming much more difficult.

That is why the F6324265 driver has a display flip feature available. It turns the screen 180°. The keys order is reversed as well.

To activate this both middle buttons ("previous" and "next") of the driver have to be pressed in the same time for about 3s. To deactivate function the procedure is the same.

The figure on the next page shows how flip function works.

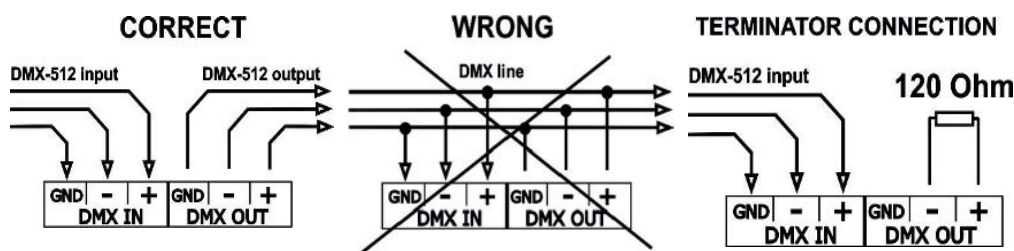


NOTE: The keys on the reverse of the display are set in the same way as the normal position, keys are reversed.

## 18 DMX signal connecting

F6324265 have to be connected to DMX line in serial mode, with no branches on DMX control cable. That means that DMX line, from the signal source, must be connected to DMX IN pins of F6324265 and later, directly from DMX OUT pins to the next device in DMX chain.

If the F6324265 is the last DMX chain receiver there should be terminator (resistor 120 Ohm) mounted between "DMX+" and "DMX-" pins of DMX OUT section.



## 19 RDM – available parameters

The F6324265 supports the DMX-RDM protocol. DMX protocol allows only of a one-way data transmission, while its extension the RDM protocol can transmit information in two directions. This makes possible to simultaneously send and receive information, and hence the possibility

of monitoring activities of the compatible devices. Thanks to RDM some available settings of compatible devices may be programmed using this protocol.

**List of RDM parameters supported by the F6324265 :**

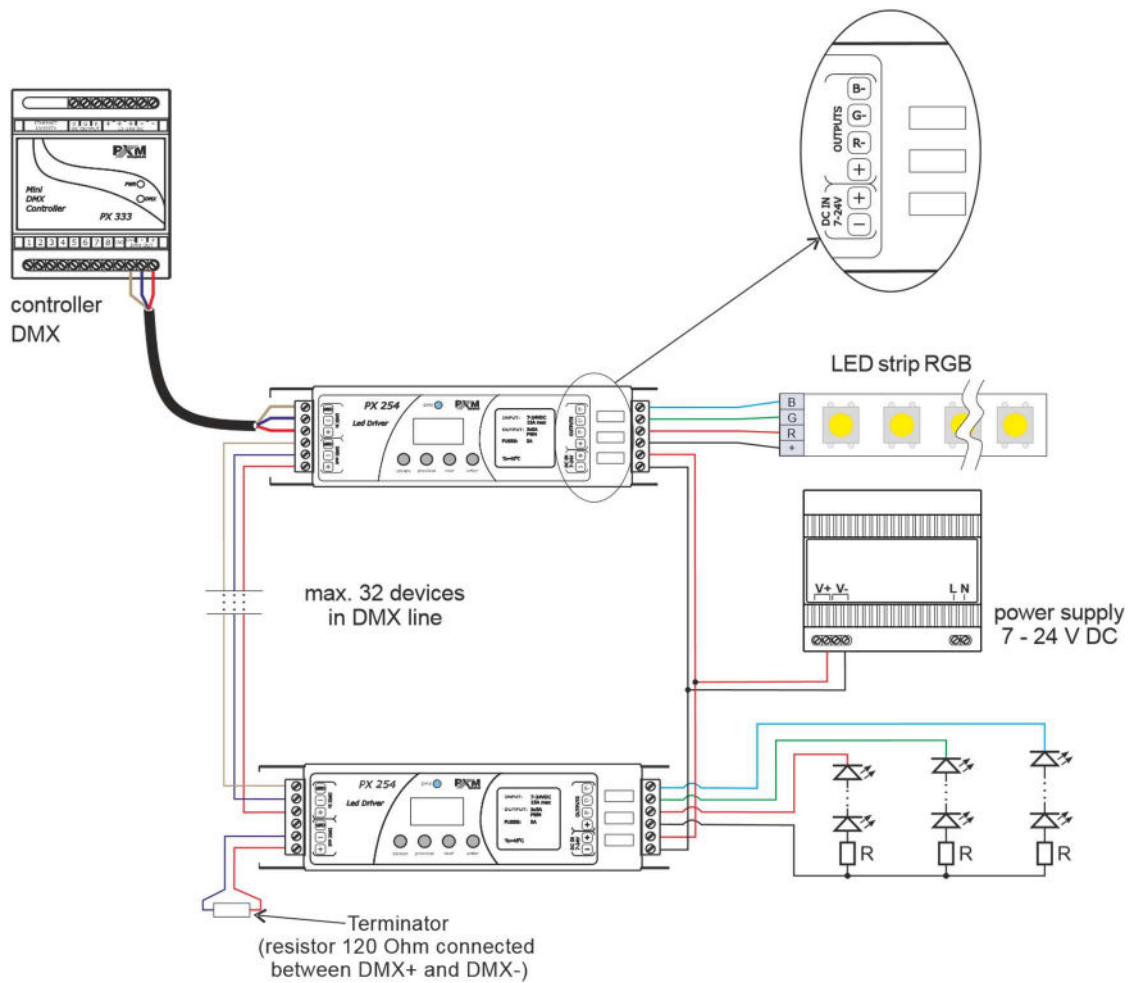
| Parameter name                    | PiD    | Description                                                                                                                     |
|-----------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| SUPPORTED_PARAMETERS              | 0x0050 | all supported parameters                                                                                                        |
| PARAMETER_DESCRIPTION             | 0x0051 | description of additional parameters                                                                                            |
| DEVICE_INFO                       | 0x0060 | information concerning the device                                                                                               |
| SOFTWARE_VERSION_LABEL            | 0x00C0 | firmware version of the device                                                                                                  |
| DMX_START_ADDRESS *               | 0x00F0 | DMX starting address of the device;<br>Range 1 – 512                                                                            |
| IDENTIFY_DEVICE *                 | 0x1000 | device identification; Two states are possible:<br>identification is off (0x00 value) and<br>identification is on (0x01 value). |
| STATUS_MESSAGES                   | 0x0030 | information about device status                                                                                                 |
| DEVICE_MODEL_DESCRIPTION          | 0x0080 | device description, e.g. name                                                                                                   |
| MANUFACTURER_LABEL                | 0x0081 | manufacturer description, e.g. name                                                                                             |
| DEVICE_LABEL *                    | 0x0082 | additional device description; It is possible to enter an additional device description using up to 32 ASCII characters.        |
| DMX_PERSONALITY                   | 0x00E0 | DMX operational mode                                                                                                            |
| DMX_PERSONALITY_DESCRIPTION       | 0x00E1 | description of individual operational modes                                                                                     |
| DEVICE_HOURS                      | 0x0400 | operating time counted in hours                                                                                                 |
| BALANCE_RED *                     | 0x8011 | value of control level of red channel balance                                                                                   |
| BALANCE_GREEN *                   | 0x8012 | value of control level of green channel balance                                                                                 |
| BALANCE_BLUE *                    | 0x8013 | value of control level of blue channel balance                                                                                  |
| SMOOTH_DIS_0/P2P_1/TIM_2 *        | 0x801A | value of control level of blue channel balance                                                                                  |
| SMOOTH_TIME *                     | 0x801B | Smooth time for <i>tiN</i> function chosen in subsection above                                                                  |
| NO_SIG_P1-18 SC_19 ON_20 OFF_21 * | 0x801C | choice of work mode for No DMX signal                                                                                           |

| Parameter name       | PiD    | Description                                                        |
|----------------------|--------|--------------------------------------------------------------------|
| SCENE_RED *          | 0x801D | settings of red channel value for scene saved in F6324265          |
| SCENE_GREEN *        | 0x801E | settings of green channel value for scene saved in F6324265        |
| SCENE_BLUE *         | 0x801F | settings of blue channel value for scene saved in F6324265         |
| SCREENSAVER_ON/OFF * | 0x8022 | settings of screensaver (display backlight in F6324265)            |
| PROGRAM_SPEED *      | 0x8025 | programs playback speed settings (playing next steps of program)   |
| PROGRAM_FADE *       | 0x8026 | settings of smooth transition between following steps of a program |
| BALANCE ON/OFF *     | 0x8027 | to activate or deactivate the balance of output channels           |
| PWM_FREQUENCY *      | 0x8028 | LEDs refresh frequency                                             |
| SERIAL_NUMBER *      | 0x8030 | device serial number                                               |
| DISPLAY_FLIP *       | 0x8031 | inverting the meter display 180 degrees                            |

\* - editable parameter

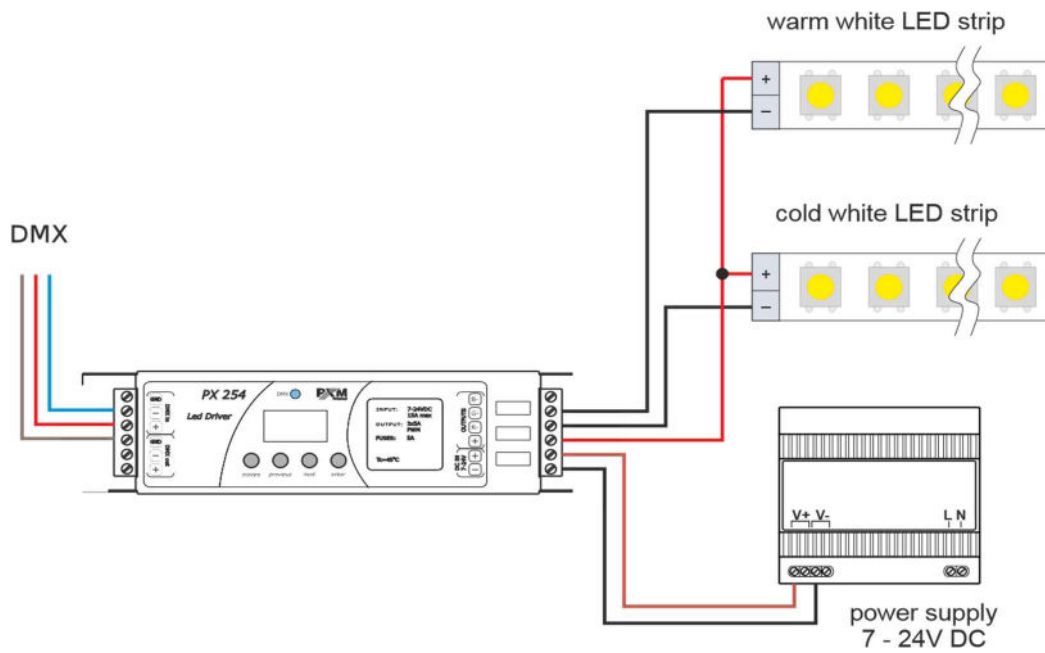


## 21 Connection scheme.



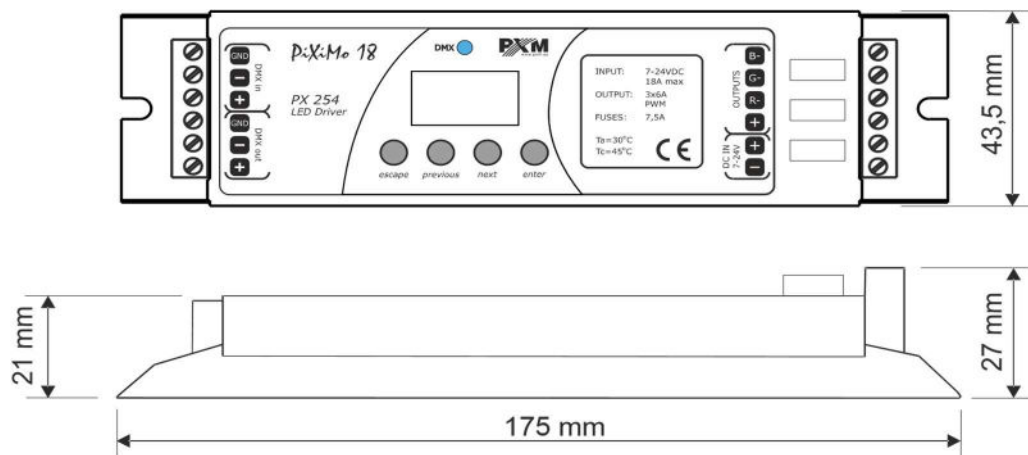
Note! The driver F6324265 is common anode type device. It is possible to connect lamps with 4-wires cable with a common "+" only.

## Sample connection of warm and cold white LEDs strips for Dynamic White mode



With such a connection of strips, in *dW* control mode, the value 0 on the color temperature channel corresponds to warm white color, and value 255 – cold white.

## 22 Dimensions.



## 23 Technical data.

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| type                           | F6324265                                        |
| DMX channels                   | 512                                             |
| RDM protocol support           | yes                                             |
| power supply                   | 7 – 24V DC                                      |
| max. current consumption       | 18A                                             |
| power consumption without load | 30mA for 12V DC<br>40mA for 24V DC              |
| output channel number          | 3                                               |
| control accuracy               | 16 bit                                          |
| programmable scenes            | 1                                               |
| built-in programs              | 18                                              |
| outputs current capacity       | 6A / channel                                    |
| output sockets                 | screw connectors                                |
| Master mode                    | yes                                             |
| weight                         | 0.2kg                                           |
| dimensions                     | width: 175 mm<br>height: 43,5mm<br>depth : 26mm |

**DECLARATION OF CONFORMITY**

PXM Marek Żupnik spółka komandytowa  
Podłęże 654, 32-003 Podłęże

we declare that our product:

*Product name:* LED driver 3x6A

*Product code:* PX254-OC  
PX254-CC

meets the requirements of the following standards, as well as harmonised standards:

|                             |                       |
|-----------------------------|-----------------------|
| PN-EN IEC 63000:2019-01     | EN IEC 63000:2018     |
| PN-EN 61000-4-2:2011        | EN 61000-4-2:2009     |
| PN-EN IEC 61000-6-1:2019-03 | EN IEC 61000-6-1:2019 |
| PN-EN 61000-6-3:2008        | EN 61000-6-3:2007     |

and meets the essential requirements of the following directives:

**2011/65/UE** DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment  
Text with EEA relevance.

**2014/30/UE** DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast)  
Text with EEA relevance.

  
Marek Żupnik spółka komandytowa  
32-003 Podłęże, Podłęże 654  
NIP 677-002-54-53



mgr inż. Marek Żupnik.