Product service conditions

Temperature range, °C	-40...+40
Relative humidity of air, %	45...80

Manufacturer guarantee

The manufacturing company provides guarantee certificates for a product within 12 months from the date of sale.

Guarantee repair is not made in the cases of:

1. Expiration of product guarantee period;
2. Product failure as a result of misconnection;
3. Damages caused by ingress of moisture on printed-circuit board;
4. Excess of the maximum electric parameters;
5. In the presence of scratches of mechanical influences.

Serial number _____

Packer _____

Manufacturing date _____

Mark on putting into operation.

Date of sale _____

Stamp of trading organization.

603000, 4A Nesterova str., Nizhny Novgorod, Russia
Tel.: 007 (831) 260 1087

www.maksbright.com

MAKSBRIGHT

PROFESSIONAL LED SOLUTIONS

USER MANUAL

Sigma Optima RGB DMX

PROGRAMMABLE LED CONTROLLER

Tel: 007 (831) 260 1087

Made in Russia
www.maksbright.com

Short description

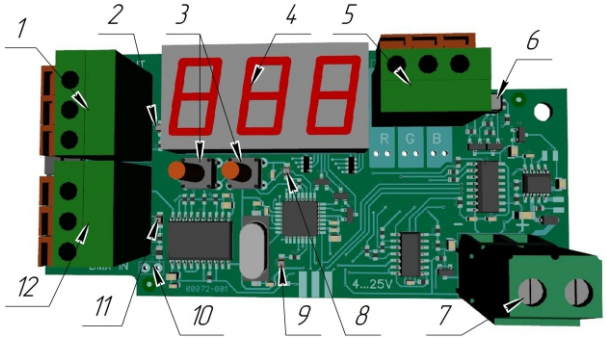
Sigma Optima RGB DMX is slave device in the DMX512 standard. It is intended to control of low-voltage lighting equipment.

Area of use extends on decorative illumination, festive illumination, show equipment, and also a wide range of individual tasks of the specific consumer.

Technical characteristics

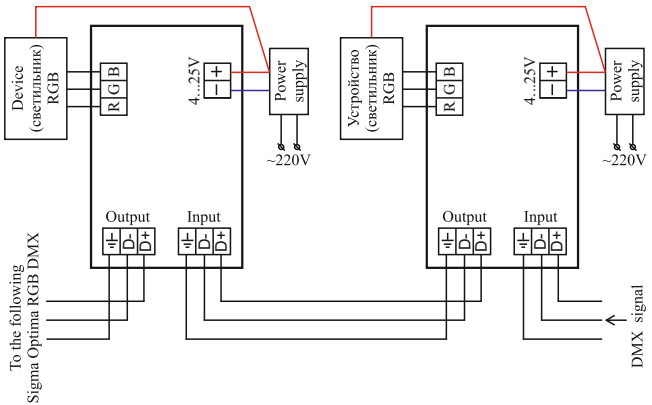
Number of channels, piece	3
Supply voltage of direct current, Volt	4... 25
The maximum admissible current on one channel, Ampere	6
Total admissible current, Ampere	18
Indicator of initial number of channels in the DMX line	Yes
Interface standard	DMX 512 protocol
The maximum number of channels in the DMX line, pcs	512
Total maximum capacity of channels at 12 V, W	216
Input signal	PWM
Quantity of gradation of brightness for 1 channel, bit	256
Maximum frequency of dimming, Hz	128
Protection against short circuit	yes
Galvanic isolation of data	yes
Amplifier of the DMX line	yes
Built-in terminator (loading resistor)	yes
Weight no more than, g	330
Overall dimensions, mm	115x65x40
Protection class	IP65

Purpose of controlling elements and indications



1 - output terminal block of connection of the DMX line;
2 - indicator of data on the output terminal of the DMX line;
3- reduction/increase buttons (left/right) of initial number of channels in the DMX line;
4 - indicator of initial number of channels in the DMX line;
5 - terminal blocks of connection of light-emitting diode lines;
6 - indication of operation of channels;
7 - terminal blocks of connection of the power unit;
8 - indication of existence of short circuit in one of the channels;
9 - indication of operation of the microcontroller;
10 - connection of the loading resistor to the DMX line (the jumper is installed at the end of the DMX line);
11 - indicator of data on the input terminal of the DMX line;
12 - input terminal block of connection of the DMX line.

Connection scheme of Sigma Optima RGB DMX



The software and documentation are presented on www.maksbright.com.