User Manual

LEDGate DIN

LGD-1-D4LED; LGD-1-D8LED

Version 1.04
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Contents

Specifications

LED outputs	4 or 8
DMX512 interfaces	1
Additional port	RS-485
Connectors	2 EDGVC, 15 EDGVC
Control interface	DMX512
Supported protocols	DMX512, RDM
DMX data refresh rate	44 Hz
Power supply	12/24 VDC
Max current per output	10 A
Total current on outputs	40 A
Max. power consumption	1000 W
Operating Temperature	-40...+70°C
IP Rating	IP 20
Dimensions, mm	142 x 105 x 75

Safe operation

To ensure safe and reliable operation of the devices, please observe the following requirements
Use the device only for its intended purpose
Do not use devices that show signs of malfunctioning
Avoid strong physical impacts on the device
Protect devices and cables from contact with corrosive liquids
Whenever a fault is detected in the device, please contact the manufacturer.

General information

LEDGate DIN is compact LED driver with DMX512/RS-485 input. Powered from 12/24 VDC source, LEDGate is capable to control and dim 4 or 8 output lines for direct connection with LED equipment: duralight, driverless LED luminaires, etc, with independent short-circuit protection on each channel. Depending on selected mode, each output channel can be controlled by 1(8-bit logarithmic) or 2(16-bit linear) DMX addresses. In 8-bit mode each device uses 8 DMX addresses while in 16-bit mode each device uses 16 DMX addresses, where first address for each channel corresponds to high byte of intensity and second address- to low byte of intensity.
Thanks to innovative embedded algorithms, LEDGate provides a smooth, stepless regulation in full range of intensity.

Advantages

Smooth light regulation

8-bit and 16-bit DMX control

Independent short-circuit protection on each channel

Direct connection with LED equipment

Installation

Before mounting and power up, it is necessary to verify protective earthing and cable connections.
1. Ensure the device has no damage due to transportation
2. Mount device on DIN rail
3. Connect power cable, input DMX line and LED stripes
4. Set device address using DIP-switcher. The range of valid addresses starts with 001, (default value) and ends on 505. Starting with this address, device will be controlled from external remote

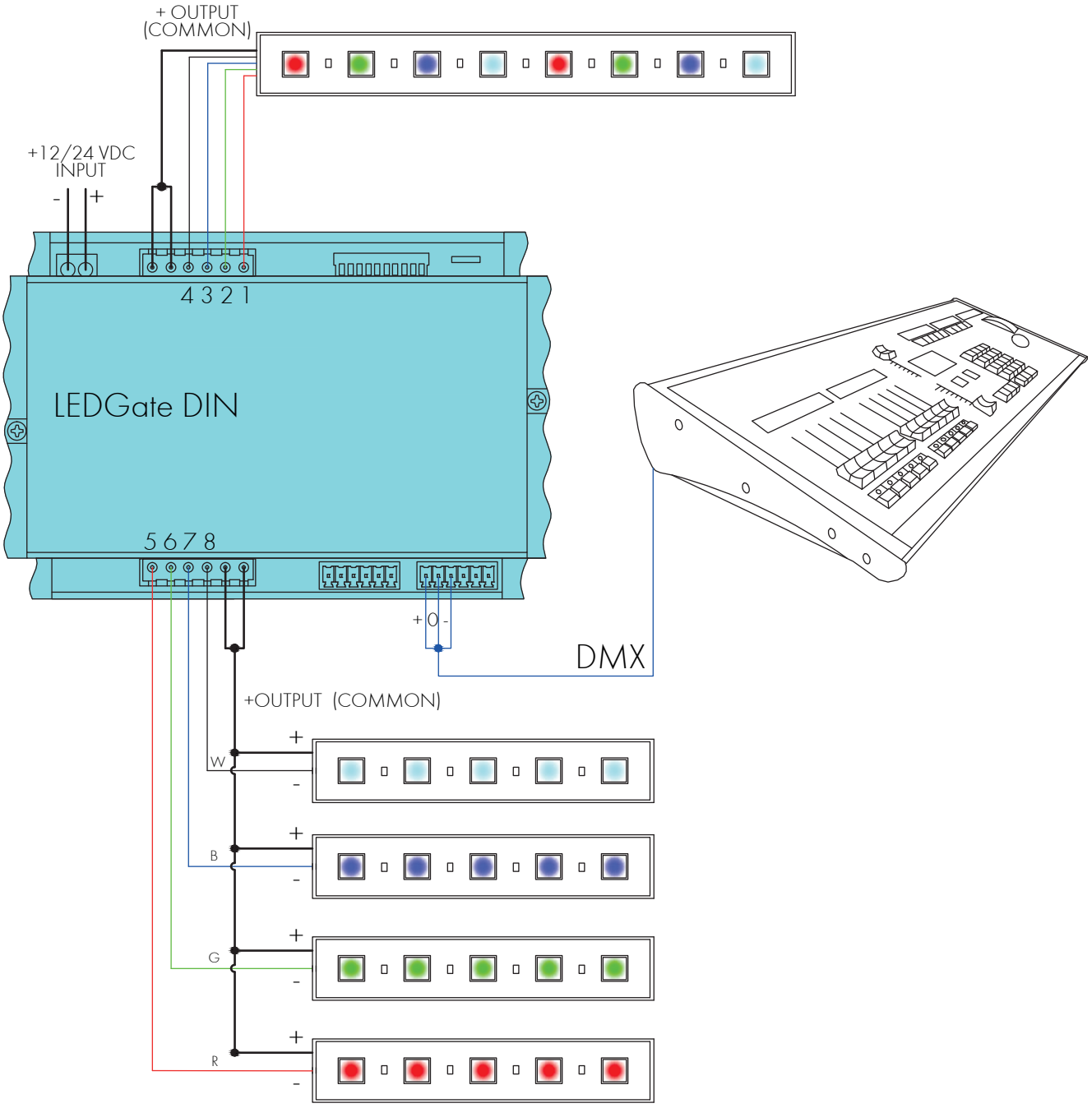
RDM

Device supports DMX address assignment and 8/16 bit mode changing via RDM.
To select RDM address assignment mode, set all DIP-switcher sections to OFF. In other cases the actual DMX address will be indicated in RDM parameters anyway.
8-bit and 16-bit modes can be selected via RDM by choosing corresponding “device personality”.

Indication

Red	lit	Valid address, no DMX data
	blinks slow	Invalid address
Green	lit	Valid address, DMX data transmitting
	blinks	Changed control DMX value
Red/Green	blinks fast	Supply voltage 25 percent below nominal. A restart is required

Connection scheme



Technical maintenance

Maintenance, search and troubleshooting should be performed by service personnel. The device should be free from dirt, dents, connecting cables and wires must be intact and securely fastened.

Notes

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