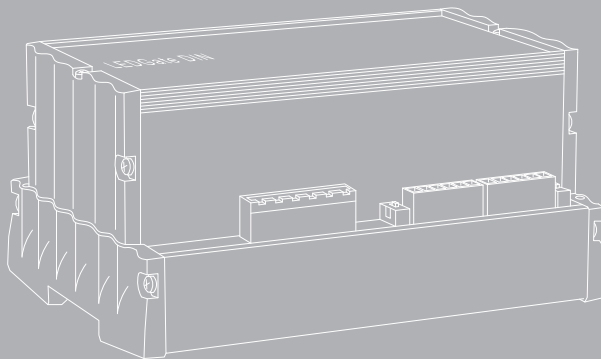


Version 1.02
March 22, 2018

User manual

LEDGate DIN

LGD-1-D4LED; LGD-1-D8LED



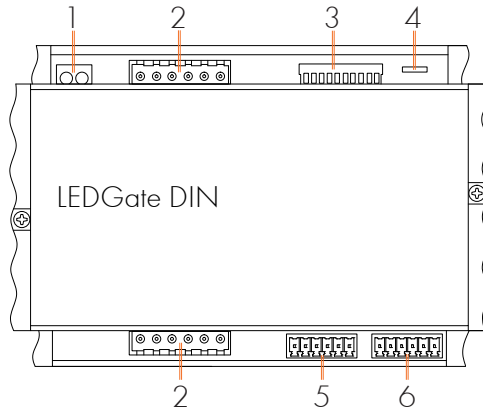
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External appearance



Pic.1 Main interfaces and indicators

1	12/24 VDC connector	3	Address switchers	5	Spare RS-485 input
2	LED outputs	4	Ground terminal	6	DMX input

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.

Key features

- 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.

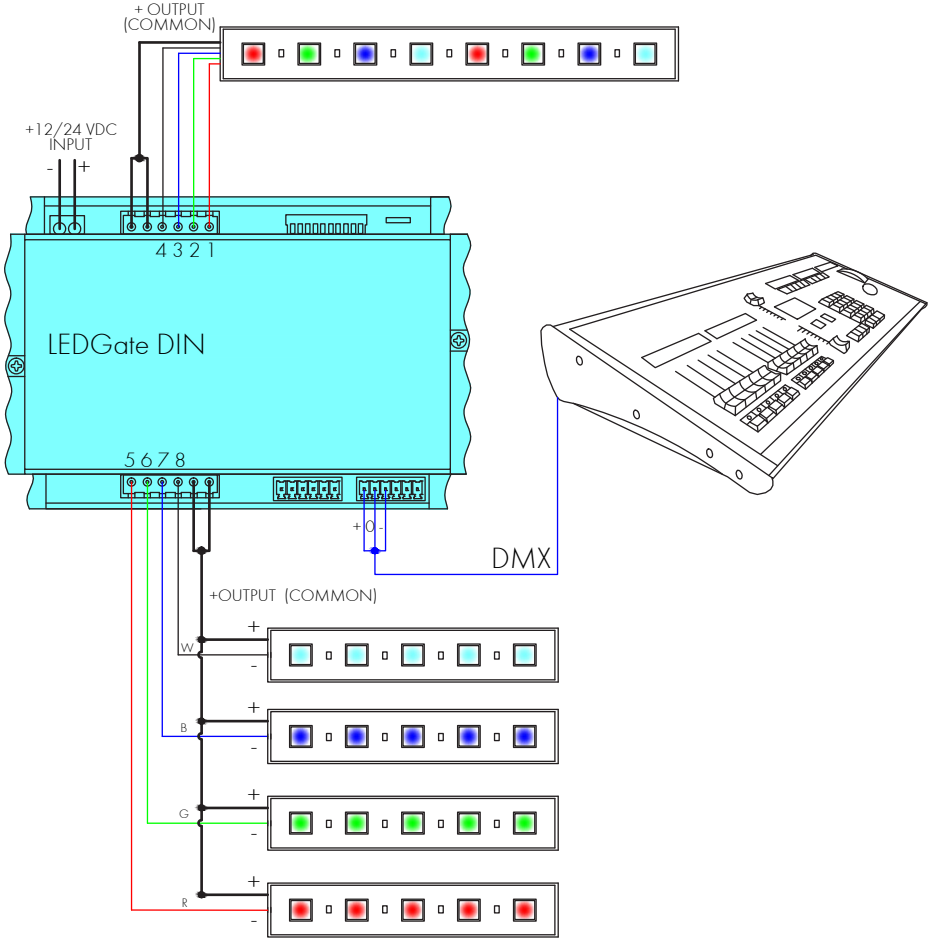
8-bit and 16-bit modes can be selected via RDM by choosing corresponding "device personality".

Indication

LED indicator displays device current status:

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 the device, 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.

Transport and storage

The device, packaged in containers should be stored in warehouses under conditions:

- temperatures from -50°C to $+80^{\circ}\text{C}$;
- relative humidity 95% ;
- the vapor acids, alkalis and other aggressive substances is not allowed.

Please send all your warranty-related questions to
support@sundrax.com

All Sundrax products are covered by a 36 months warranty.



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