



# User Manual

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## DimGate DIN

DGD-1-D4DIM4AC

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# Specifications

Control interface	DMX512, RDM
Number of DMX addresses	8
Controllable output lines	4 AC and 4 analogue 1-10V/0-10V
Connectors	Terminal blocks 2EDGVC, 15EDGVC
Input Voltage	AC 90-230 V, 50 Hz
Max current per channel 230 V	10 A
Maximum load power	2.4 kW per channel
Mains Fuse	0.5 A
Setup	DIP switchers, RDM
Operating Temperature	-40...+70°C
IP Rating	IP 20
Dimensions, mm	210(D) x 105(H) x 75(W)

## General information

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 moisture or other corrosive liquids

Whenever a fault is detected in the device, please contact the manufacturer.

## Safe operation

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### Warning!

The device uses hazardous voltage AC 90-250V

# Advantages

- Dim AC lines and 1-10V/0-10V lines from one device
- Independent phase inputs for dimmable 230V channels
- Active analogue 1-10V/0-10V outputs, capable to connect up to 100 drivers/ballasts
- Maximum surge protection – power supply optimized for voltage from 100 to 315 V
- AC switcher mode
- Full galvanic isolation of all ports (except 1-10V)

# Installation

1. Ensure the device has no damage caused by transportation
2. Install the device on DIN-rail
3. Connect power supply according to connection scheme
4. Connect DMX512, AC dimming lines, 1-10 outputs according to connection scheme
5. Connect the grounding circuit to the grounding clamp terminal
6. Set DMX start address on DIP switcher section 1-9. DMX start address is set as binary code where section 1 refers to LSB and section 9- to MSB, ON position- to binary «1», OFF position- to binary «0». Valid address range from 1 to 504
7. Select the necessary AC channels mode by DIP switcher section 10. Set section 10 to OFF to select AC dimmer function. Set section 10 to ON to select AC switcher function
8. Apply a MAINS voltage to the terminal «~230V»

## Warning!

Before mounting and turning on the power, you need to make sure protective ground cable connections and places of their connection

# Operation

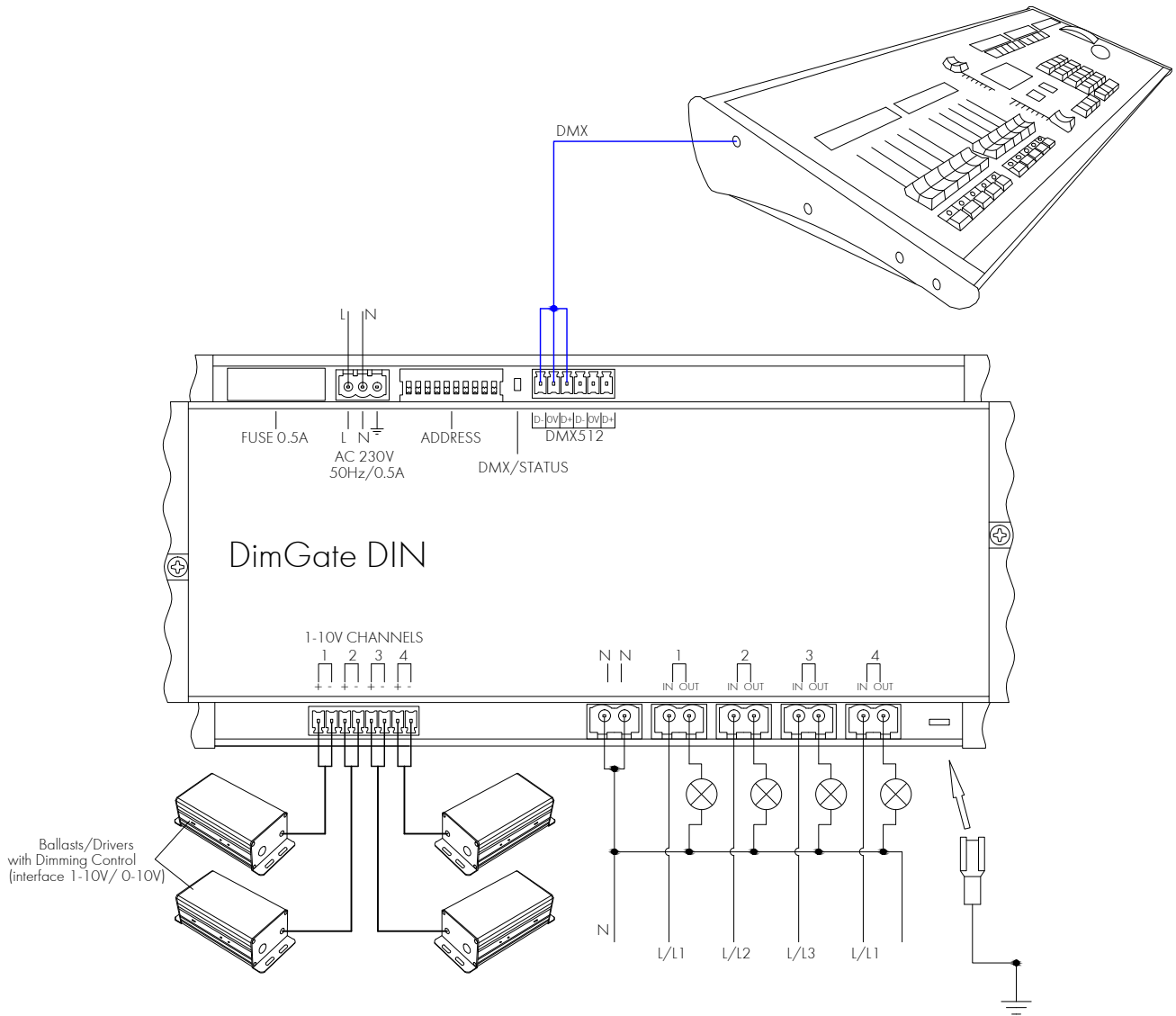
DimGate DIN devices start their normal operation in a few seconds after they have been powered up. Output channels operate according to values receiving from DMX512 port. AC channel 1 corresponds to DMX start address set by DIP switcher, AC channel 3- to start address+3. 1-10V channel 1 corresponds to start address+4, 1-10V channel 4- to start address+7. When AC dimmer mode selected, actual level on AC outputs changes proportionally to DMX value. When AC switcher mode selected, AC channels just switch the load ON and OFF, DMX value 0-127 switches the load OFF, DMX value 128-255 switches the load ON.

LED indicator shows the status of input DMX512 signal. If indicator is red, no DMX512 signal detected on input. If indicator is green, valid DMX512 signal is received. The indicator blinks on change DMX values controlling device's outputs.

# RDM

Device supports DMX address assignment and dimmer/switcher function 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. AC dimmer and AC switcher functions can be selected via RDM by choosing corresponding "device personality".

# 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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