LED dimmer

Instruction Manual

Models:

ALD 6Dxx

version 2.0 since 3 February 2020

ATTENTION!

This instruction manual contains important information about the installation and the use of the equipment. Please read and follow these instructions carefully.

Always ensure that the power to the equipment is disconnected before opening the equipment or commencing any maintenance work.

ALD6DXX_en_manual_M005

ALD 6Dxx is an LED driver suitable for applications with the use of LED tubes or when high current output dimming controlled by DMX or a stand-alone application is required. Unit has internal 8-bit to 16-bit converter for smooth operation. Unit can be controlled with true 16-bit DMX or 8-bit DMX with frequency set-up via DMX channel easily by changing mode of the device.

Firmware can be changed remotely via USB programming tool made by SRS for special usage.

Features:

- **6 dimming outputs**
  - **ALD6D24** - 6x2A 12V-24V input/output
- **Rotary DIP switches**
- **DMX IN/OUT optically isolated**
- **Massive mono block**

Power supply:

DC 12 - 30V DC, 12A maximum on full load

Always respect the MAXIMUM VOLTAGE of LEDs and LED tubes CONNECTED to the DEVICE.

Temperature of use:

-20...+65°C

Housing:

Aluminum block – IP20

DMX function

1. **DMX address selector 0-512 using rotary switches**

ALD mode selector: 999 **NEW FIRMWARE SINCE 10.12.2018**

MODE of ALD set-up, when you do a power cycle with 999, follow and select one of the modes below: 998-997 or 996. Then power the unit OFF, change the DMX start address to 1-512 and use driver with selected mode.

2. **998** **16bit with fixed frequency 244Hz:** **ERR blinking**
   i. Channel1: R
   ii. Channel2: R-fine
   iii. Channel3: G
   iv. Channel4: G-fine
   v. Channel5: B
   vi. Channel6: B-fine
   vii. Channel7: A
   viii. Channel8: A-fine
   ix. Channel9: W
   x. Channel10: W-fine
   xi. Channel11: W2
   xii. Channel12: W2-fine

3. **997** **8bit with fixed frequency 976Hz:** **OK blinking**
   i. Channel1: R
   ii. Channel2: G
   iii. Channel3: B
   iv. Channel4: A
   v. Channel5: W
   vi. Channel6: W2

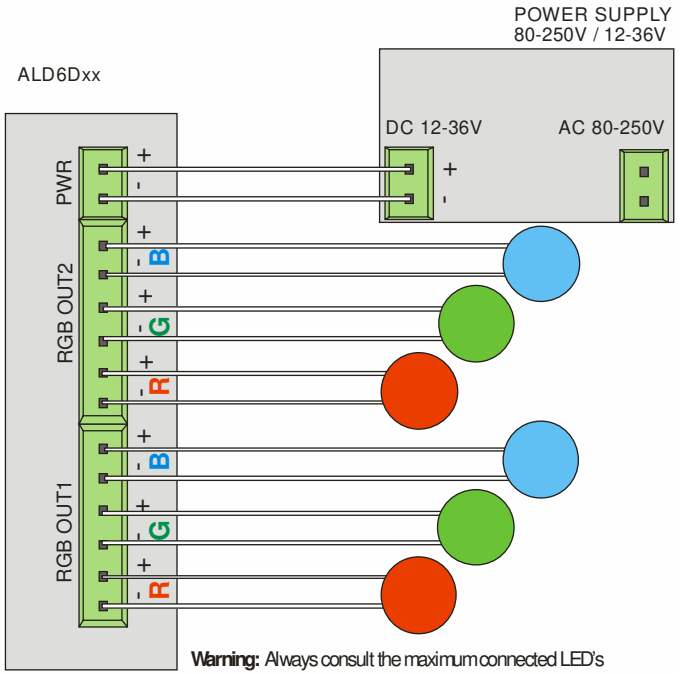
4. **996** **8bit mode with frequency setting 976-1300Hz** **OK+ERR together**

   i. Channel1: R
   ii. Channel2: G
   iii. Channel3: B
   iv. Channel4: A
   v. Channel5: W
   vi. Channel6: W2
   vii. Channel7: FREQUENCY output setup

5. **POWER LED**
   i. Green LED – device is ON
   ii. Off LED – device is not powered

6. **DMX LED after power cycle with delay of 6 seconds**
   i. Both OFF - DMX is not connected
   ii. Green LED - DMX is connected, correct polarity
   iii. Red LED - DMX is connected, wrong polarity of A/B line

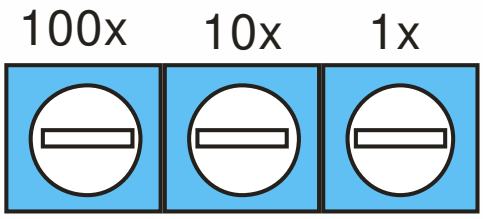
How to connect LED fixtures to ALD6Dxx



Always calculate the appropriate power supply depending on the LED fixture used. If you need help, contact the manufacturer at sales@srs-group.com**. By doing so you will avoid lots of problems and burned fixtures!!!**

Standalone function of ALD6Dxx

DIP 100x	Function
0	DMX reserved
1	DMX reserved
2	DMX reserved
3	DMX reserved
4	DMX reserved
5	DMX reserved
6	RESERVED
7	100x faster than normal speed
8	10x faster than normal speed
9	Normal speed



With the 10x switch the base time of effect can be selected

DIP 10x	Time duration in s
0	static
1	speed1
2	speed2
3	speed3
4	speed4
5	speed5
6	speed6
7	speed7
8	speed8
9	speed9

With the 1x switch the color/effect can be selected

DIP 1x	Function / color
0	red
1	green
2	blue
3	pink
4	cyan
5	yellow
6	white
7	Custom variation 1
8	Custom variation 2
9	Rainbow

Samples:
1-512 – DMX controlled **901** – Green steady, **911** – Green speed1 dimmer, **919** – Slowest Rainbow, **719** – Fastest Rainbow, **999-996 –** OUTPUT mode selection/mode

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