

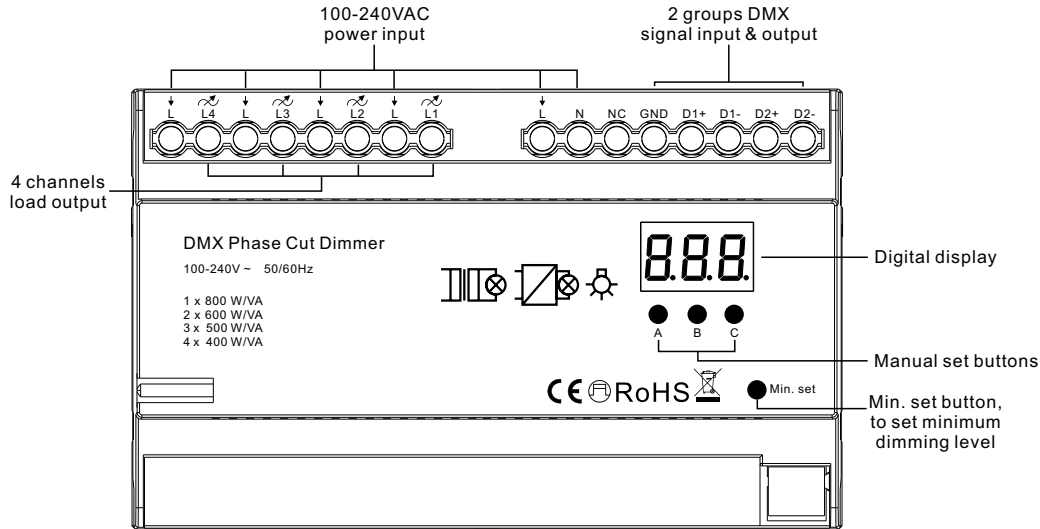
RDM Enabled 4 Channels DMX Phase Dimmer

09.2108ASAC4C.04031



Important: Read All Instructions Prior to Installation

Function introduction



- Safe and reliable full isolation design
- DMX phase dimmer, trailing edge dimming
- Supports resistive loads and capacitive loads
- Standard DMX512 compliant control interface
- RDM function enabled to realize intercommunication between DMX master and decoder.
- For example, DMX decoder's address can be assigned by DMX master console
- With digital display to show data directly, easily to set and show DMX address
- DMX channel quantity from 1CH~4CH settable
- Output dimming curve gamma value from 0.1 ~ 9.9 settable
- 4 channels AC100-240V output
- To dim single color dimmable LED lamps, dimmable LED driver, traditional incandescent and halogen lights
- Din rail installation, easy and fast
- Waterproof grade: IP20

Safety & Warnings

- DO NOT install with power applied to the device.
- DO NOT expose the device to moisture.

Operation

To set desired DMX512 address through buttons, **button A** is to set "hundreds" position, **button B** is to set "tens" position, **button C** is to set "unit" position.



Set DMX address (Factory default DMX address is 001)

Press and hold down any of the 3 buttons for over 3 seconds, digital display flashes to enter into address setting, then keep short pressing button A to set "hundreds" position, button B to set "tens" position, button C to set "units" position, then press and hold down any button for >3 seconds to confirm the setting.



DMX signal indicator ●: When DMX signal input is detected, the indicator on the display following after the digit of "hundreds" position of DMX address turns on red ●●●.



Choose DMX Channel (Factory default DMX channel is 4CH)

Press and hold down both buttons B+C simultaneously for over 3 seconds, CH digital display flashes, then keep short pressing button A to choose 1/2/3/4, which means total 1/2/3/4 channels. Press and hold down button A for >3 seconds to confirm the setting. Factory default is 4 DMX channels.

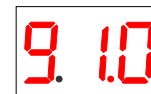
For example the DMX address is already set as 001.

1CH=1 DMX address for all the output channels, which all will be address 001.

2CH=2 DMX addresses, output L1&L3 will be address 001, output L2&L4 will be address 002

3CH=3 DMX addresses, output L1, L2 will be address 001, 002 respectively, output L3&L4 will be address 003

4CH=4 DMX addresses, output L1, L2, L3, L4 will be address 001, 002, 003, 004 respectively



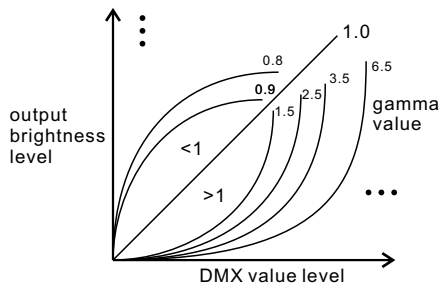
Choose Dimming Curve Gamma Value (Factory default dimming curve value is g1.0)

Press and hold down all buttons A+B+C simultaneously for over 3 seconds, digital display flashes g1.0, 1.0 means the dimming curve gamma value, the value is selectable from 0.1-9.9, then keep short pressing button B and button C to select corresponding digits, then press and hold down both buttons B+C for >3 seconds to confirm the setting.

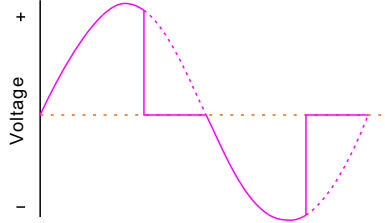
Product Data

Input Voltage	Output Voltage	Max. Load Current	Max. Load Power	Size(LxWxH)	Ambient Temperature
100-240VAC	4x(100-240)VAC	4x1.5A	4x400W @ 230V 4x200W @ 110V	145.4x90x66.4mm	-25°C ~ +45°C

Compatible Load Types			
Load Symbol	Load Type	Maximum Load	Remarks
	Dimmable LED lamps	1*200W @ 110V, 1*400W @ 230V 2*150W @ 110V, 2*300W @ 230V 3*125W @ 110V, 3*250W @ 230V 4*100W @ 110V, 4*200W @ 230V	Due to variety of LED lamp designs, maximum number of LED lamps per channel is further dependent on power factor result when connected to dimmer.
	Dimmable LED drivers	1*200W @ 110V, 1*400W @ 230V 2*150W @ 110V, 2*300W @ 230V 3*125W @ 110V, 3*250W @ 230V 4*100W @ 110V, 4*200W @ 230V	Maximum permitted number of drivers per channel is 200W/400W divided by driver nameplate power rating.
	Incandescent lighting, Halogen 240V lamps	1*400W @ 110V, 1*800W @ 230V 2*300W @ 110V, 2*600W @ 230V 3*250W @ 110V, 3*500W @ 230V 4*200W @ 110V, 4*400W @ 230V	
	Low voltage halogen lighting with electronic transformers	1*200W @ 110V, 1*400W @ 230V 2*150W @ 110V, 2*300W @ 230V 3*125W @ 110V, 3*250W @ 230V 4*100W @ 110V, 4*200W @ 230V	



Reverse-phase control (trailing edge)



Set the minimum dimming brightness point

The factory dimming range is 1%~100%, but the 1% can be re-set as below:

Operate the DMX master to dim the load of L1 to a brightness you want, then press and hold down the Min. set button until the connected load flashes, which means the minimum point is set at this brightness now. You can not dim lower than this brightness point. The minimum point will be covered by repeating doing that.

How to reset it to factory defaults: dim up the Load of L1 to 100% , then press and hold Min. set button until the the load of L1 flashes.

Note:

- 1) The dimming range of this dimmer is 1%-100%, but some load types may flicker when dimmed to 1%, thus a minimum brightness shall be set higher than 1% to avoid flickering during dimming process.
- 2) Whatever the DMX channel quantity is set as: 1CH, 2CH, 3CH, 4CH, the minimum brightness shall be set or reset only by adjusting Load L1 output brightness and pressing Min. set button. Once the minimum brightness is set, all 4 channels load can not be dimmed below this value.

Restore to Factory Default Setting

Press and hold down both buttons A+C for over 3 seconds until the digital display turns off and then turns on again, all settings will be restored to factory default.

Default settings are as follows:

DMX Address: 001

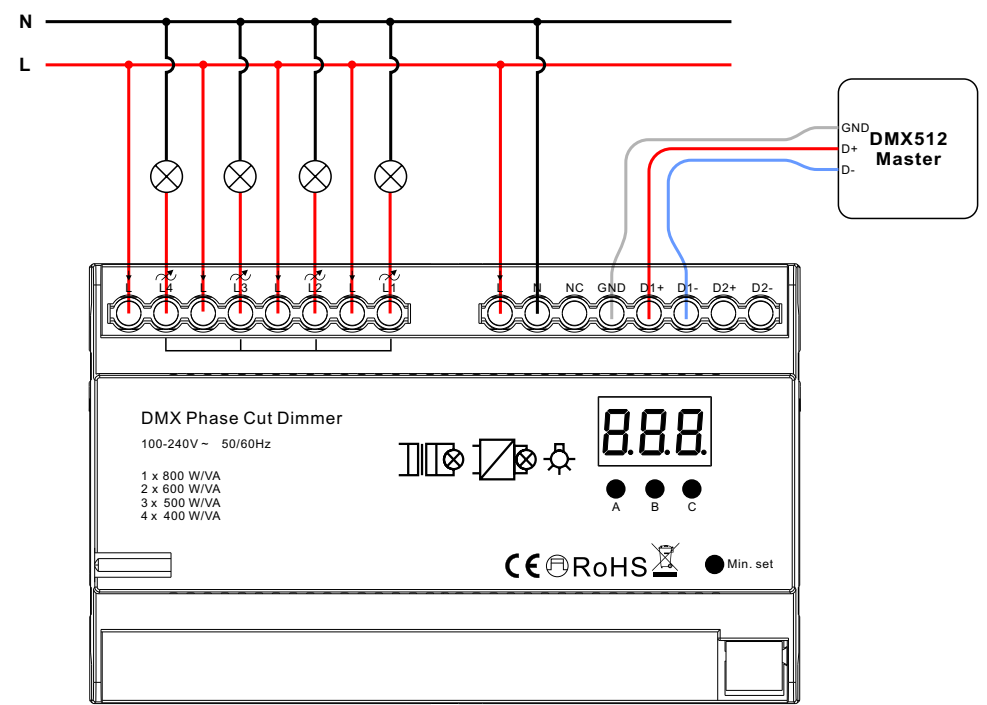
DMX Address Quantity: 4CH

Gamma: g1.0

The supported RDM PIDs are as follows:

DISC_UNIQUE_BRANCH
 DISC_MUTE
 DISC_UN_MUTE
 DEVICE_INFO
 DMX_START_ADDRESS
 IDENTIFY_DEVICE
 SOFTWARE_VERSION_LABEL
 DMX_PERSONALITY
 DMX_PERSONALITY_DESCRIPTION
 SLOT_INFO
 SLOT_DESCRIPTION
 MANUFACTURER_LABEL
 SUPPORTED_PARAMETERS

Wiring Diagram



This phase dimmer adopts trailing edge dimming (reverse phase control), the dimming range is 1%~100%, please make sure the connected loads support reverse phase control. Please refer to the user manual of the load or consult the supplier of the load.

Product Dimension

