

# Instruction Guide

How to set NFC APP for DALI-2 Dimmable LED driver ?

How to connect the DALI-2 Dim. LED driver with DALI system & LED lights?

■ NFC APP setting (Scan the following QR code and download the NFC APP )



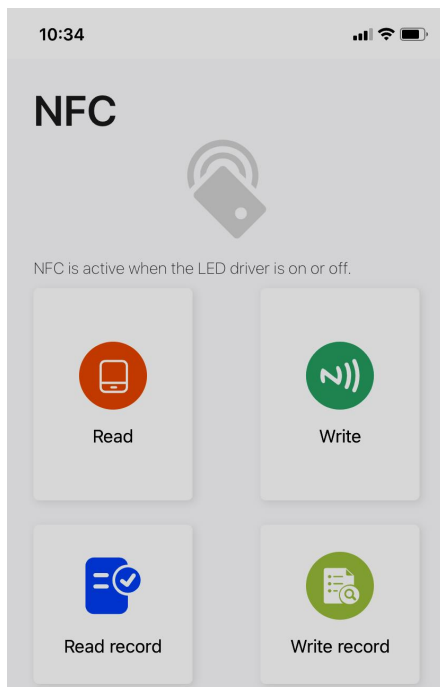
(For IOS system Mobile-phone only)

Or Download the “set NFC” APP by Click the following link:

Click the link below to download “DALI-2 Dimmable led driver NFC APP”

<https://apps.apple.com/us/app/set-nfc/id1606081076?l=zh>

After the installation is complete, the user can enter the APP by clicking the icon “set NFC”.



Picture 1

## APP operation:

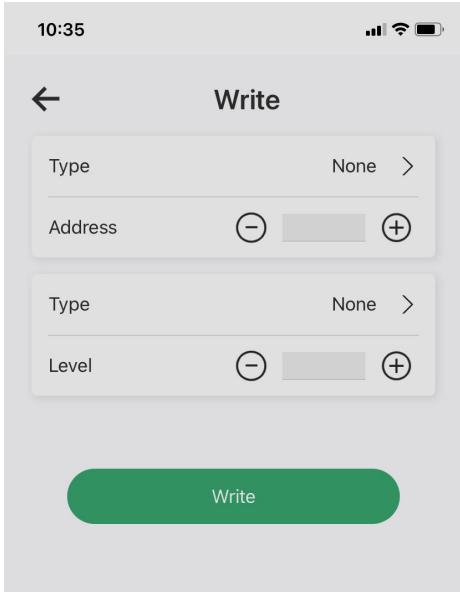
Open The NFC APP interface, swipe left or right to select the read interface/write setting interface. (picture 1)

## Handle operation

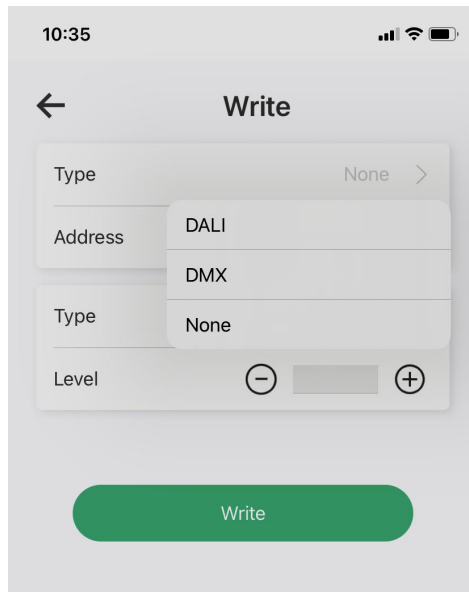
- 1) In the settings interface, click "write", the selection interface will pop up automatically (Picture 2)
- 2) From the 1 line “Type”, click “None” to select “DALI” or “DMX” (it depends on the LED drivers you got) (picture 3);
- 3) Turn to the “Address” setting, click "-/+” to select the address (picture 4);
- 4) Turn to 3 line “Type”, click “None” to select “CV, CC, None”(it depends on the LED drivers you got). (picture 5);
- 5) Turn to the “Level”, click "-/+” to select the level (pl. Refer to “level&voltage level table” in data sheet) .

(picture 6)

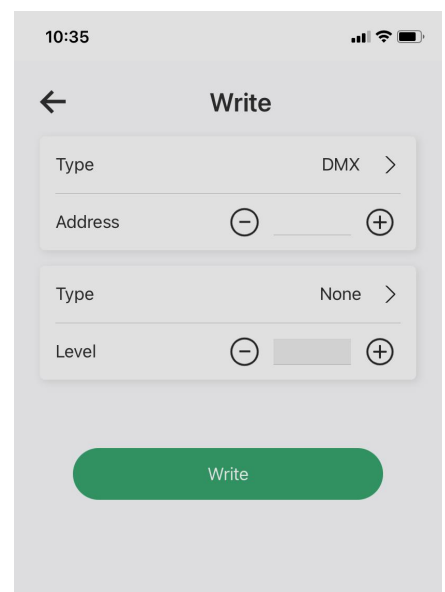
➤ **Note:** (None: no choice, DMX address range: 1~512; DALI address range: 0~63, 255)



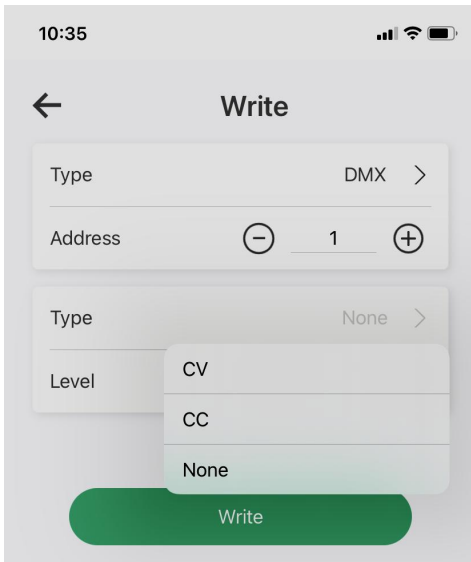
Picture 2



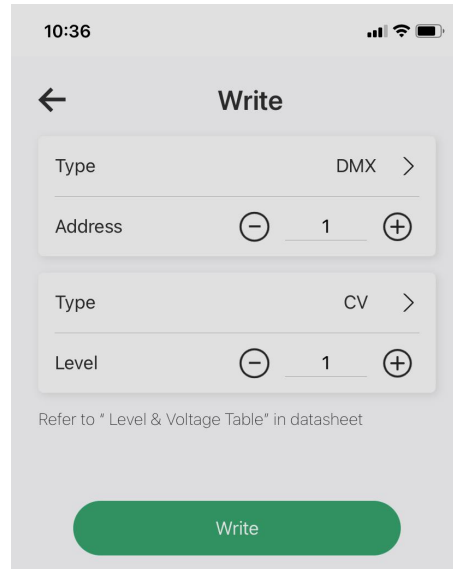
picture 3



picture 4



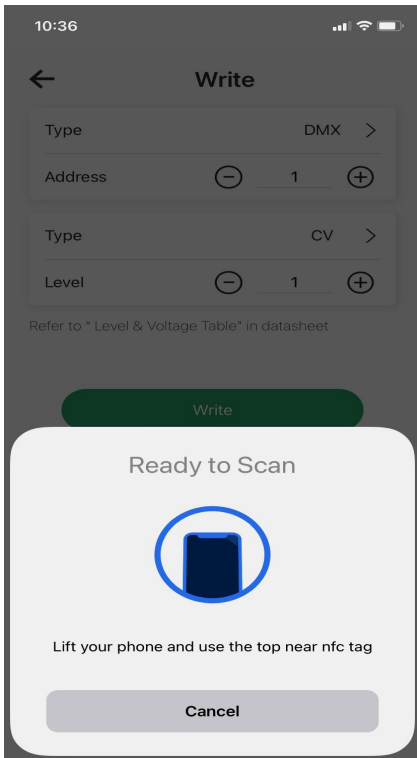
picture 5



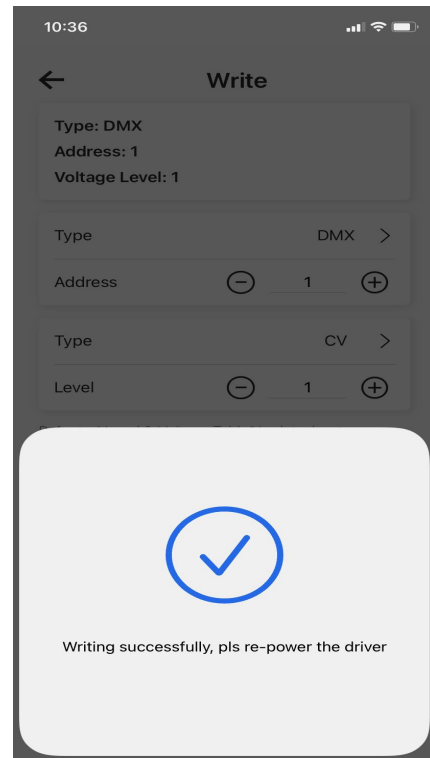
picture 6

6) Once the above setting confirmed, pl. Close your mobile-phone to the LED driver, and click "Write" to scan the NFC signal. (The NFC platform will indicate "Ready to Scan").(picture 7)

7) Once the "Write" successfully, the NFC platform indicates "writing successfully, pl. Re-power the driver" (picture 8)



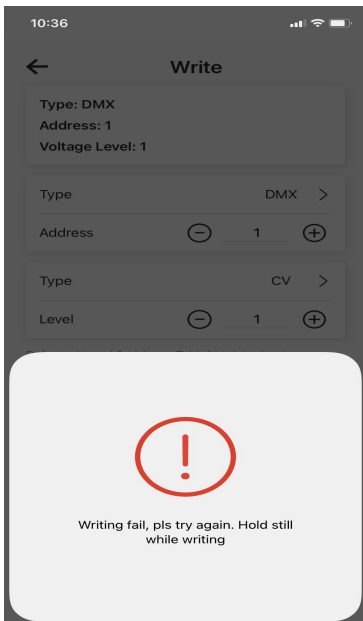
picture 7



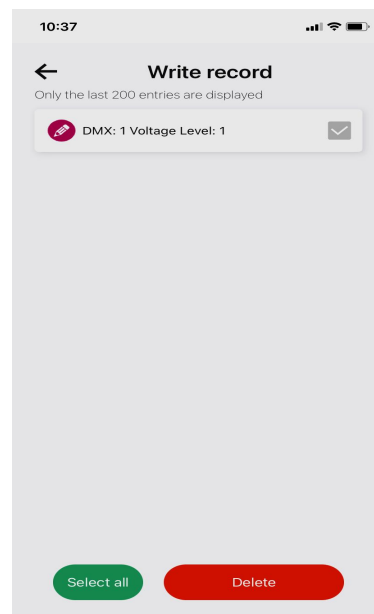
picture 8

8) Once the NFC information Writing fail, the NFC platform will indicate "Writing fail, pls try again. Hold still while writing". (picture 9)

9) After setting NFC successfully, you can click "Write record" to see the last writing NFC information. You can "select all" or "delete" the NFC records.



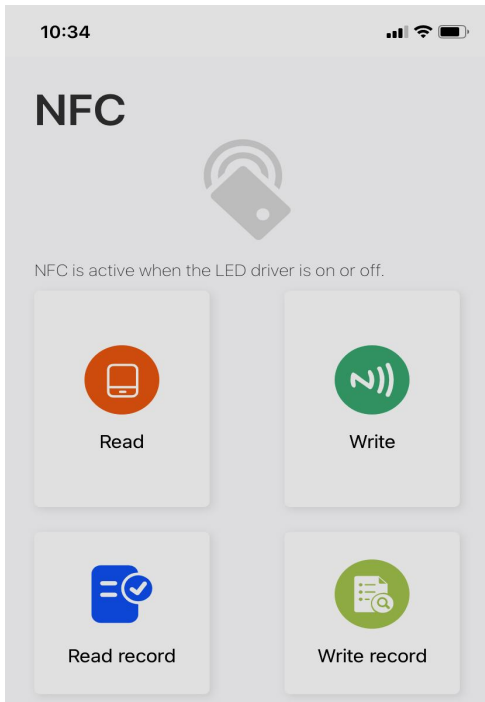
Picture 9



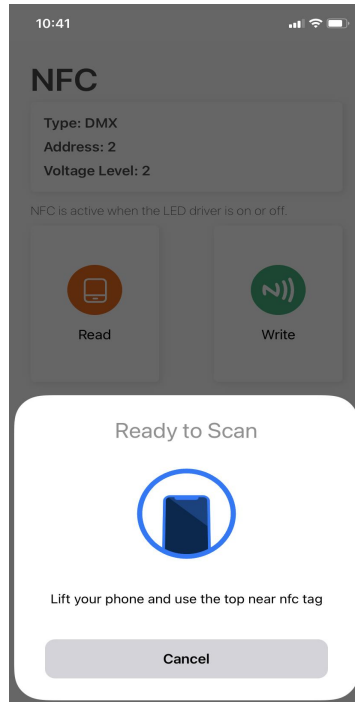
picture 10

10) If you want to read and see what the NFC info. the LED drivers have, pls return to NFC APP first page, then lift your phone and use the top near NFC tag, and click "Read". (picture 12, 13)

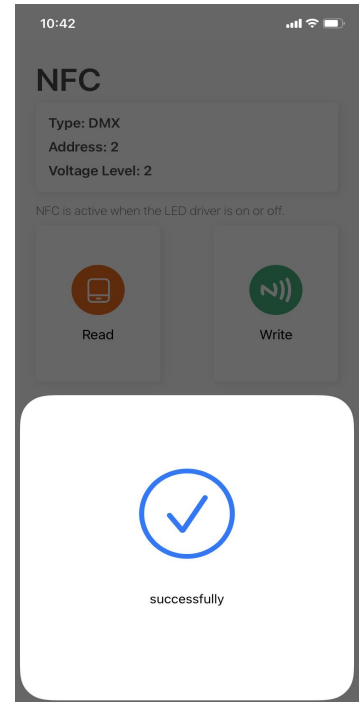
11) Once the "read" successfully, it will indicate "Successful". (picture 14)



picture 11



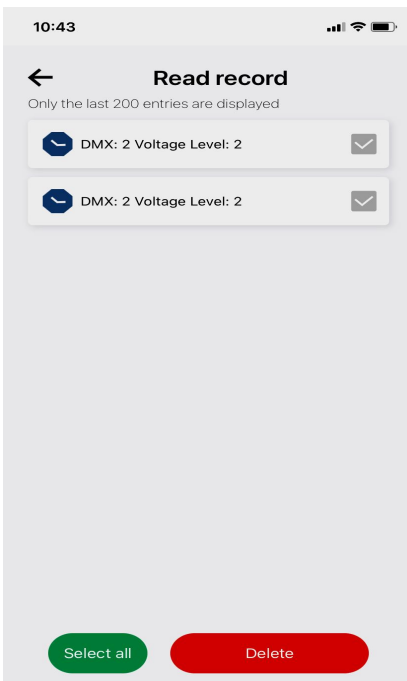
picture 12



picture 13

12) If you want to read the records you have set, please click "Read record". (picture 14)

You can "select all" or "Delete" the record you don't use.



picture 14

**Note:** (None = no choice; voltage level range: 1~10, LED driver support  $\pm 1V$  output voltage adjustment, the voltage value 5 is the standard output voltage; The current level range is from 1 to 10, please refer to the LED driver's manual for the power output corresponding to the current level)

### Adjust output voltage from NFC APP:

1) The driver output voltage can be read and written by a mobile with NFC APP or NFC handheld device (NFC read & write device: NFC-RW) by close to the NFC signal area of the DALI-2 LED drivers.

2) Voltage range: level 1~10, each level is 0.2V. The default output voltage level is 1.

Rated Vol.	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
12V	12.00V	12.16V	12.32V	12.48V	12.64V	12.80V	12.96V	13.12V	13.28V	13.50V
24V	24.00V	24.22V	24.44V	24.66V	24.88V	25.1V	25.32V	25.54V	25.66V	26.00V
36V	36.00V	36.22V	36.44V	36.66V	36.88V	37.10V	37.32V	37.54V	37.66V	38.00V
48V	48.00V	48.44V	48.44V	48.66V	48.88V	49.10V	49.32V	49.54V	49.66V	50.0V

**Tip:** If you take the DALI-2 dimmable constant current LED driver, pl. select current and setting current level as below.

When “Write” or “Read” the NFC message, pl. put the phone close to the NFC port on the LED driver body.

When heard a beep, setting successful.

If the mobile phone is not close to the NFC write and read position or the mobile phone is moved when you are setting, it may cause the setting failed. Pl. return to first page and set it again.

## How to set NFC APP for DALI-2 Dimmable LED driver ?

## How to connect the DALI-2 Dim. LED driver with DALI system & LED lights?

### ■ NFC APP setting ( Scan the following QR code )



(For Android system Mobile-phone only)

### Or Download the NFC APP by Click the following link:

Click the link below to download “DALI Dimmable led driver NFC APP”

[http://www.swinpower.com/uploadfile/downloads/DMX%20dim.%20LED%20driver%20NFC%20\(For%20android%20system%20App%20only\)%20%20-\(SmartsEle.\)%202021-1-1.apk](http://www.swinpower.com/uploadfile/downloads/DMX%20dim.%20LED%20driver%20NFC%20(For%20android%20system%20App%20only)%20%20-(SmartsEle.)%202021-1-1.apk)

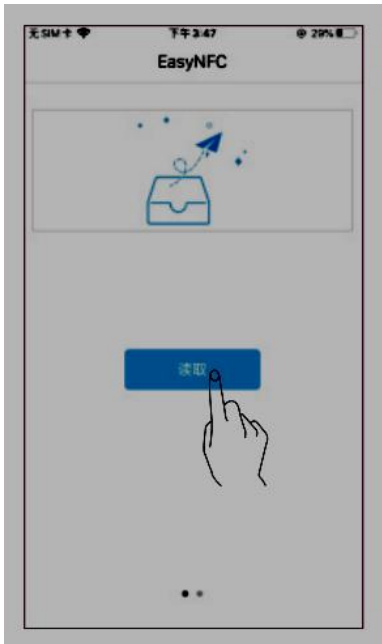
After the installation is complete, the user can enter the APP by clicking the icon.



➤ **Note:** this "NFC app" currently only supports Android system fixed mobile phones with NFC function.

### APP operation:

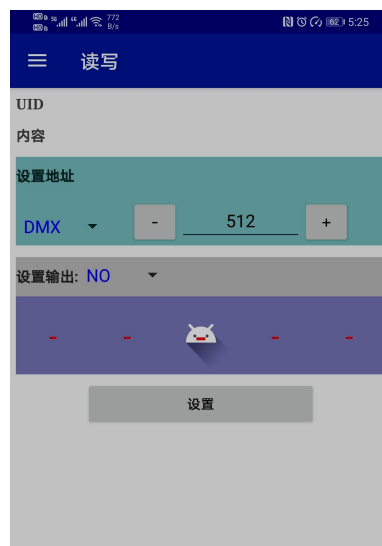
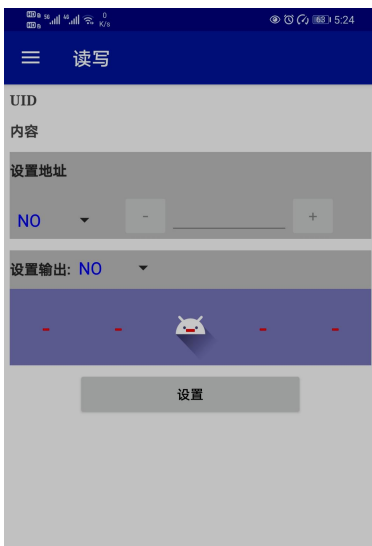
Open The NFC APP interface, swipe left or right to select the read interface/write setting interface.



## Handle operation

- 7) . In the settings interface, click "Address Settings", the selection interface will pop up automatically, slide up and down to select the option you need and click "OK"; then click "+/-", or manually edit the required address.
- 2) . In the setting interface, click "Current/Voltage Setting", the selection interface will pop up automatically, Swipe up and down to select the desired option and click "OK"; then click "+/-", or hand Edit the required parameters automatically.

➤ **Note:** (NO: no choice, DMX address range 1~512; DALI address range 0~63, 255)



**Step 1.** download and click NFC APP

**Step 2.** select DMX and setting channel

➤ **Note:** (No: no choice; voltage level range 1~10, power supply support  $\pm 1V$  output voltage adjustment, the voltage value 5 is the standard output voltage of the power supply; The current level ranges from 1 to 10, please refer to the power supply's manual for the power output corresponding to the current level)

## Adjust output voltage from NFC APP:

1) The driver output voltage can be read and written by a mobile with NFC APP or NFC handheld device (NFC read & write device: NFC-RW) by close to the NFC signal area of the DALI-2 LED drivers.

2) Voltage range: level 1~10, each level is 0.2V. The default output voltage level is 1.

Rated Vol.	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
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24V	24.00V	24.22V	24.44V	24.66V	24.88V	25.1V	25.32V	25.54V	25.66V	26.00V
36V	36.00V	36.22V	36.44V	36.66V	36.88V	37.10V	37.32V	37.54V	37.66V	38.00V
48V	48.00V	48.44V	48.44V	48.66V	48.88V	49.10V	49.32V	49.54V	49.66V	50.0V

**Tip:** If you take the DALI-2 dimmable constant current LED driver, pl. select current and setting current level as below.

When “Write” or “Read” the NFC message, pl. put the phone close to the NFC port on the LED driver body.

When heard a beep, setting successful.

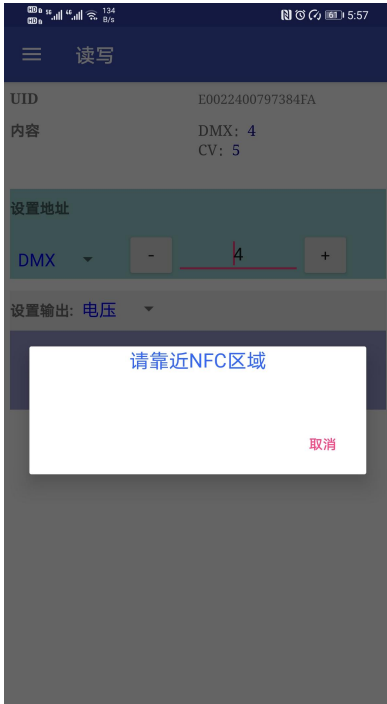
If the mobile phone is not close to the NFC write and read position or the mobile phone is moved when you are setting, it may cause the setting failed. Pl. return to first page and set it again.



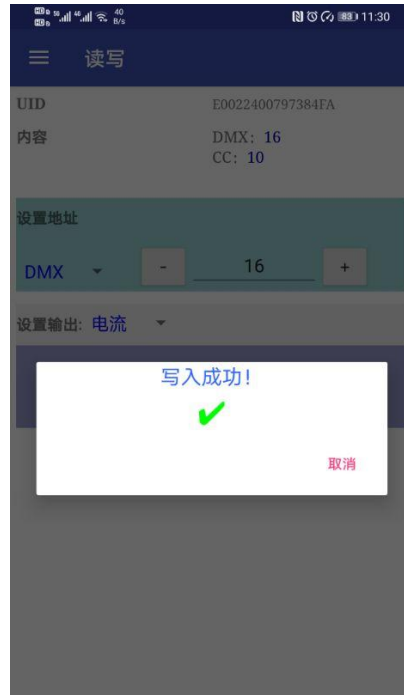
**Step 3.** select voltage and setting voltage level ; If you take the DMX512 dimmable constant current LED driver, pl. select current and setting current level as below.



3). In the setting interface, after clicking "set", put the top of the phone close to the power NFC write position.



**Step 4.** Put your mobile phone closing to the power supply NFC position.



**Step 5.** When heard a beep, setting successful

➤ **Note:** If the mobile phone is not close to the NFC write and read position or the mobile phone is moved when you are setting, it may cause the setting failed. please click and setting again.

## How to connect DALI-2 dim. LED driver with DALI system & LED lights ?

### Dimming cable:

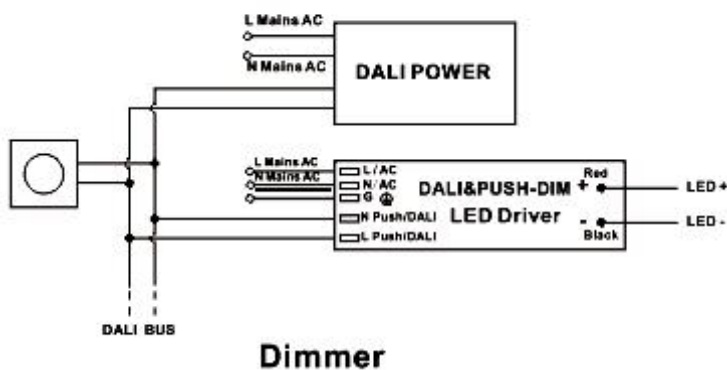
※Dimming electronic cable 3\*18AWG, Brown DA/N and Purple DA/L (No polar) connected to the DALI BUS when use DALI function. Brown (N) is connected to AC (N) while Purple (L) and pink connected to Push dim switch dimmer( L) when use Push function.

※Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

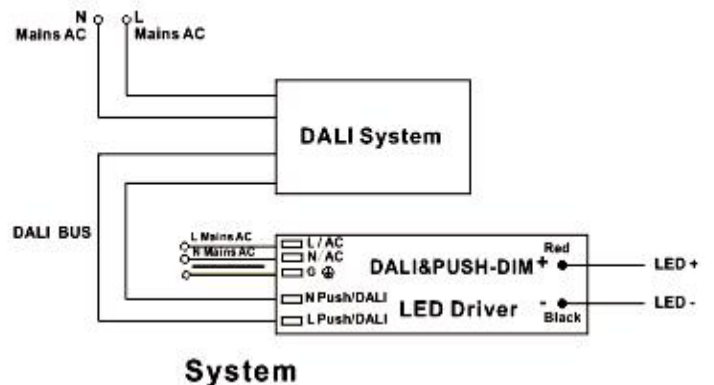
**Note:** there is external antenna at output side. Don't disassemble!

### Connecting Diagram:

DALI Dimming Wiring Diagram1

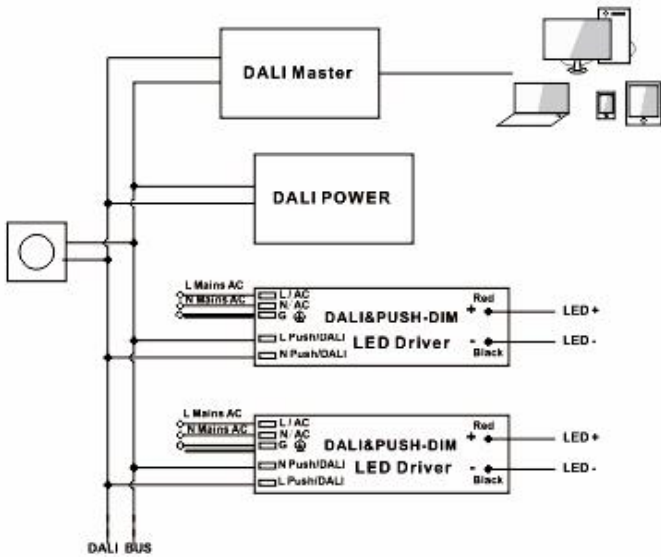


DALI Dimming Wiring Diagram2



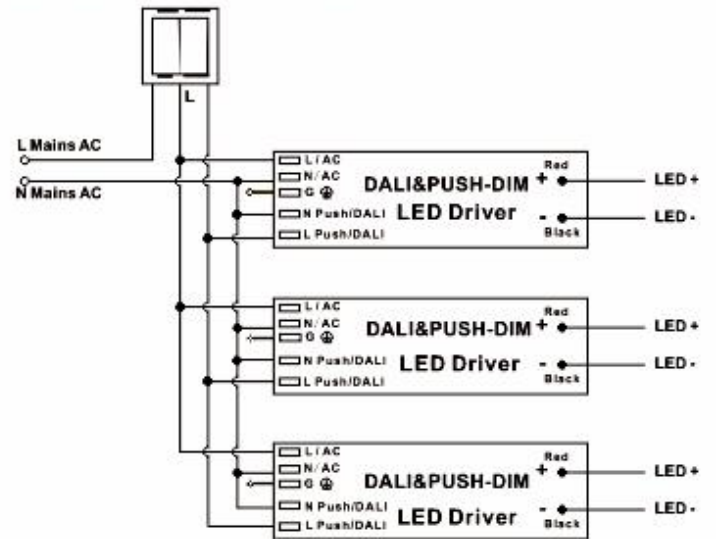


### DALI Dimming Wiring Diagram3



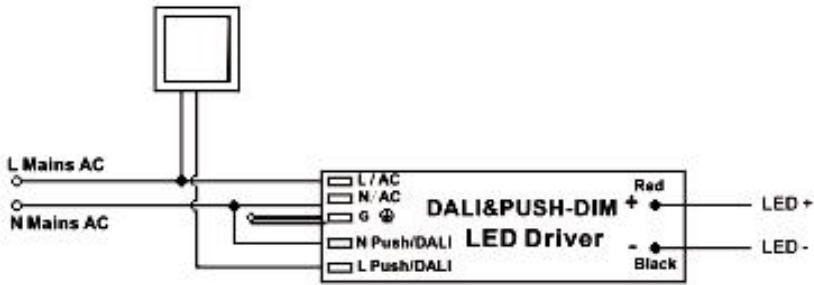
**PC+DALI Master+DIMMER**

### Push-Dimming Wiring Diagram1



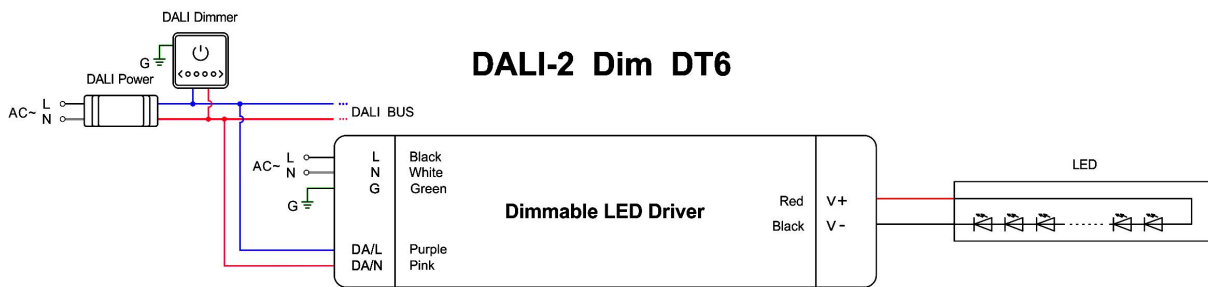
**Dimmer (with ON/OFF function)**

### Push-Dimming Wiring Diagram2

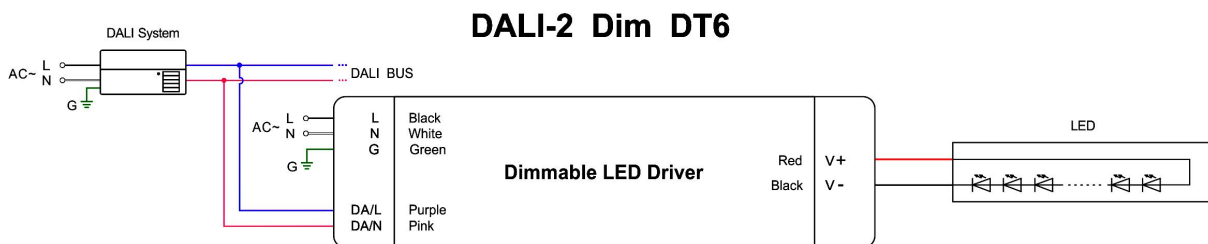


**Dimmer**

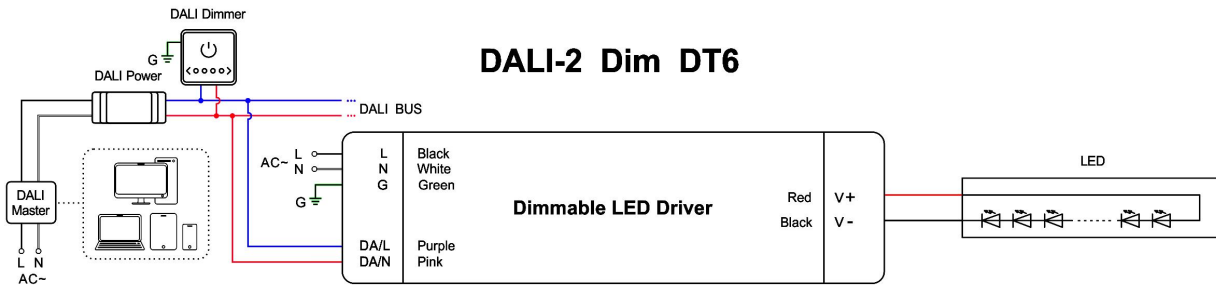
- Using DALI-2 DT6 dimming with DALI power and dimmer



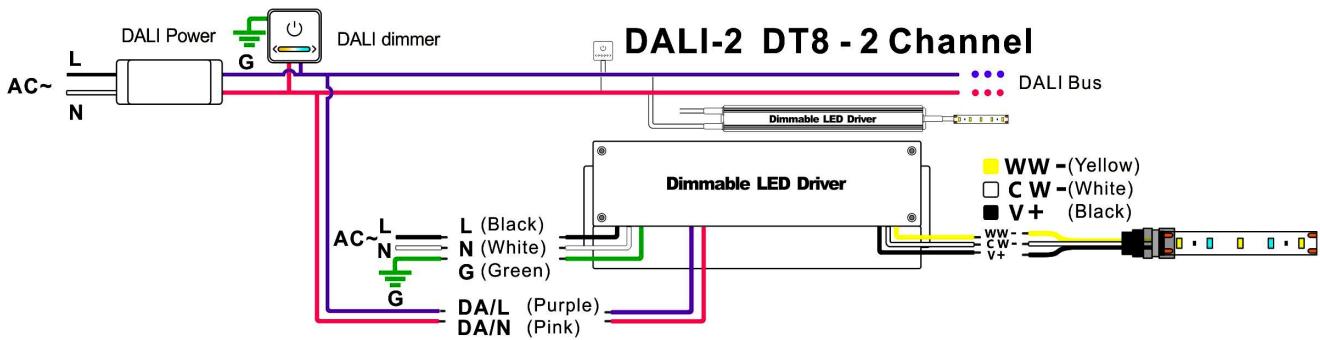
- Using DALI-2 DT6 dimming with DALI system and DALI bus



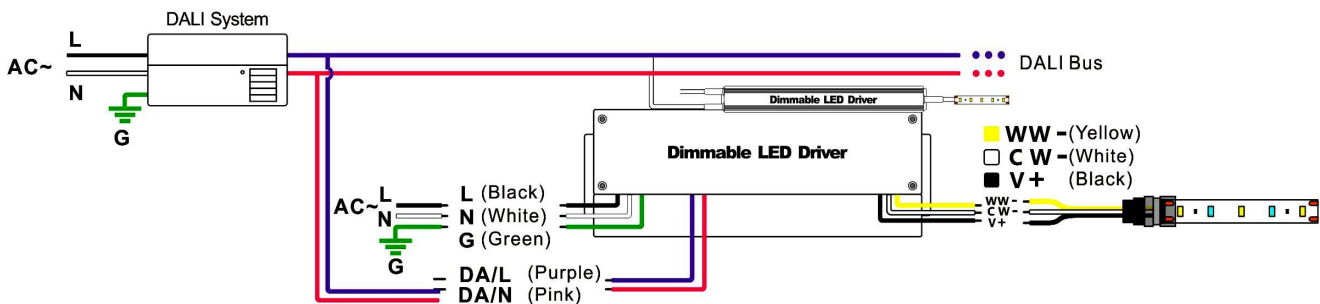
- Using DALI-2 DT6 dimming with intelligent device, DALI master and dimmer



● Using DALI-2 DT8 dimming with DALI power and dimmer



● Using DALI-2 DT8 dimming with DALI system and DALI bus



※**Note:** For DALI Dimming Wiring Diagram 3, please noted that only one DALI power is need in the DALI bus, so no extra DALI power is needed if the Master or Dimmer already includes the DALI Power.

■ **Instruction:**

- This driver should be installed by qualified and professional person;
- Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
- Ensure that wiring is correct before test in order to avoid light and power supply damage;
- If the dimmable LED drivers do not work normally, pl. don't maintain privately, but contact us:  
[sales1@smartselectronics.com](mailto:sales1@smartselectronics.com) Or take a phone call: 0086-595-27256889

Welcome to login Our official website for more details : [www.smartpower.com](http://www.smartpower.com) or [www.swinpower.com](http://www.swinpower.com)