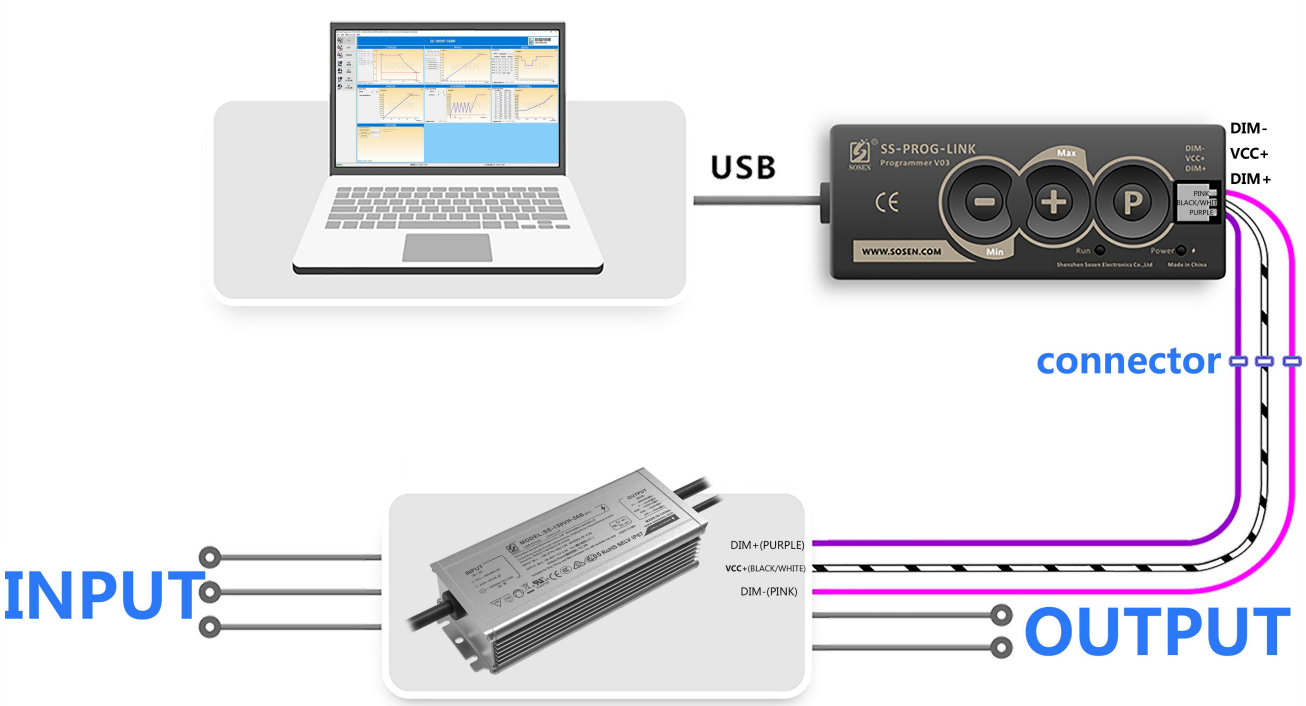
Shenzhen SOSEN Electronics Co.,Ltd.
A3 Building, Gonghe 4th Industrial Area, Shajing Street, Bao'an District, Shenzhen, China 518104

SosenProgrammer Quick Guide V1.4

1. Programmer connects with LED driver

1.1 SS-PROG-LINK



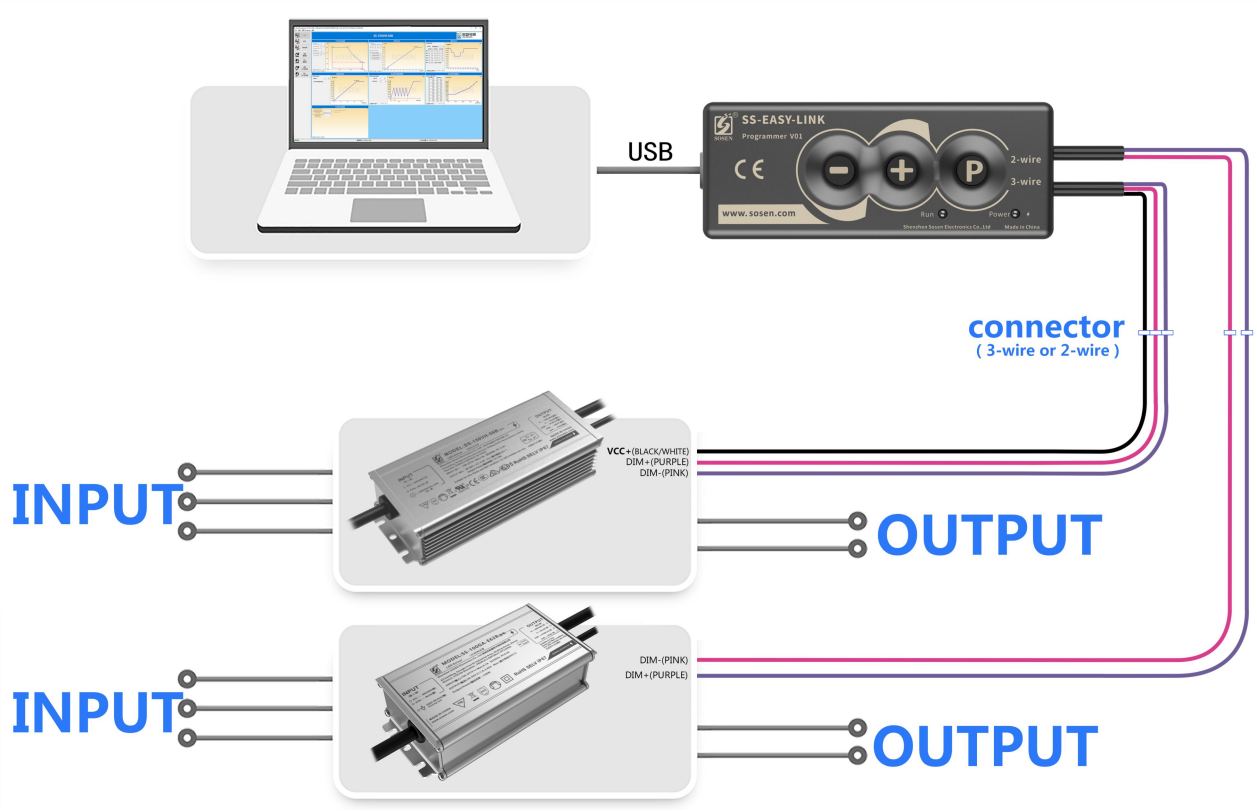
Dimming colors may change, and it is best to distinguish the wiring order according to the label of the programmer and LED driver:

“Programmer : DIM-” is connected to “LED driver: DIM-”.

“Programmer : VCC+” is connected to “LED driver: VCC+”.

“Programmer : DIM+” is connected to “LED driver: DIM+”.

1.2 SS-EAST-LINK



The light color may be changed, depending on the programmer and LED driver silk screen to distinguish 2 or 3 lines:

“Programmer : DIM-” is connected to “LED driver: DIM-”.

“Programmer : VCC+” is connected to “LED driver: VCC+”. (Only three wire programming has)

“Programmer : DIM+” is connected to “LED driver: DIM+”.

1.3 Matters needing attention

Connect Programmer to the USB port of the computer, and Programmer will identify the LED driver.

Sound of connection correct : "Di" sound.

Sound of connection error:

Programmer failed to connect with LED driver: "DiDiDi~DiDiDi~ DiDiDi~DiDiDi~ DiDiDi ~..." three consecutive sounds.

Programmer does not match the version of the LED driver: "DiDiDiDi" four consecutive sounds.

Please confirm that the above steps are correct, and then perform the following operations.

2. Online programming

Online programming operation method: **Open " SosenProgrammer " -> Connect -> Read LED Driver / Load Default Values -> modify data -> Write LED Driver**

(1) Connect, Read LED Driver and Write LED Driver, as shown in Figure 3, at position ① in the block diagram.

When connecting, please confirm whether the port number is correct (the correct one is "USB Serial Port (COM x)"), if the USB Serial Port (COM x) does not appear, please install the USB driver first, as shown in Figure 2.

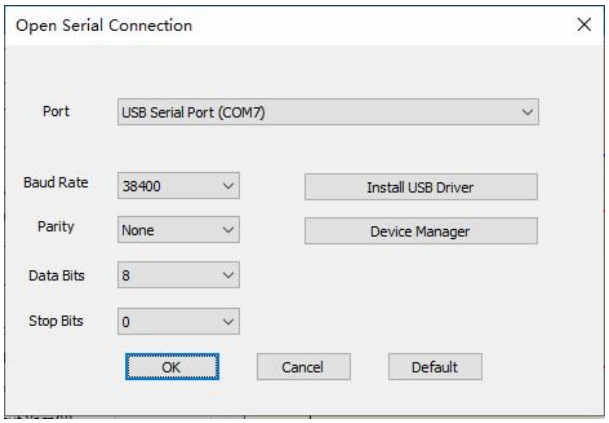


figure 2

If you want to restore the default parameters of the model, you can click "Load Default Values", as shown in Figure 3, click the position ② of the block diagram with the left mouse button, and select the corresponding model.

(2) Modify the data, such as "Work Current Setting", "3in1 Dimming", " Timer Dimming" , etc., as shown in Figure 3, at position ③ in the block diagram.

(3) When "Writing LED Driver", please make sure that the selected model is the same as the connected LED driver model (as shown in Figure 3, position ④ in the block diagram), otherwise Programmer will refuse to program and report an error.

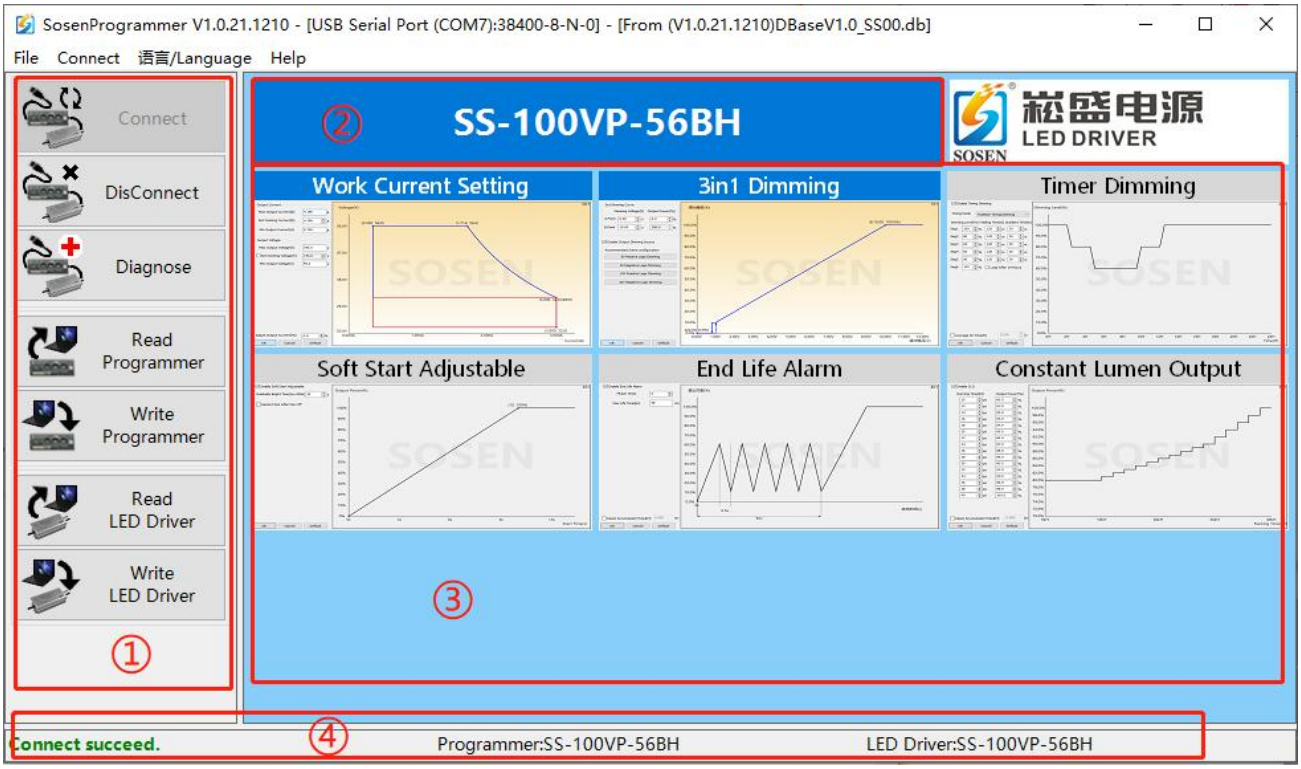


figure 3

3. Offline programming

3.1 Make offline SS-PROG-LINK

Making offline programming method: **Open " SosenProgrammer " -> Connect -> Read LED Driver / Load Default Values -> modify data -> Write Programmer**

The first four steps are the same as online programming, and the last step is to write Programmer to prepare the offline Programmer of this model.

3.2 Batch programming

Offline programming method: **Made offline programmer -> USB power**

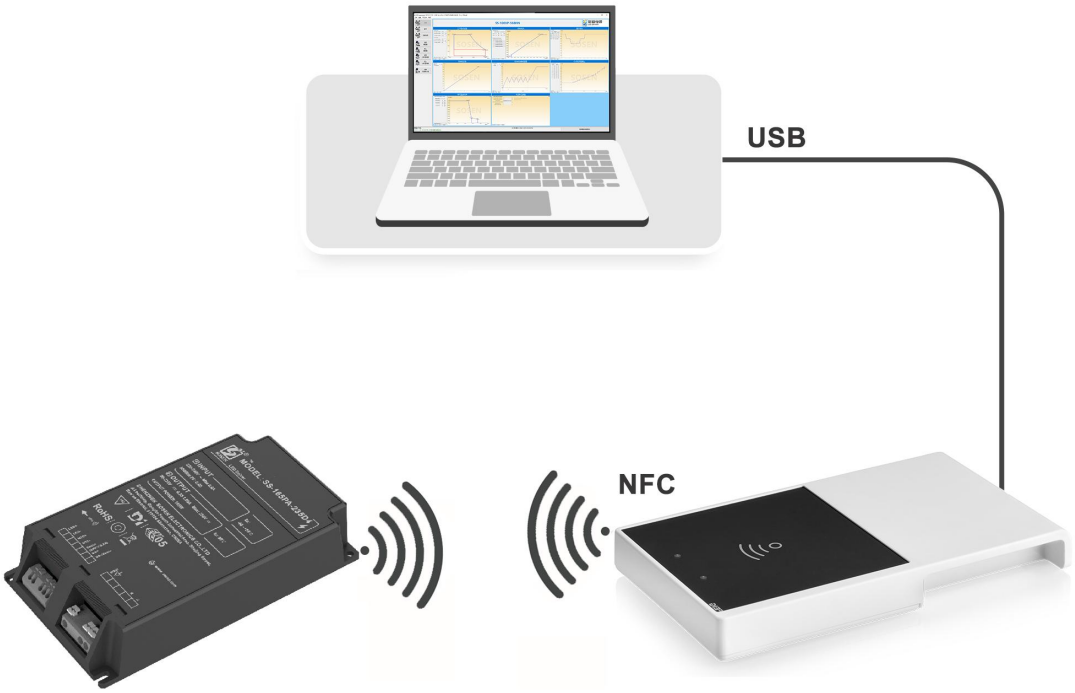
supply -> press the "P" key to program

The model written in Programmer must be the same as the LED driver model to write successfully, otherwise Programmer will report an error. Check whether the models are the same, as shown in Figure 3, block diagram position ④).

Press the "P" key to program the LED driver offline. After the programming is completed, replace other LED drivers that are ready to be programmed and repeat this operation.

Note: The sound of successful programming is "DiDi".

4. Introduction to NFC mode LED driver programming



Schematic diagram of the NFC mode LED driver programming cable

4.1 Introduction to NFC reader

The models of NFC reader which SosenProgrammer software supported are as below:

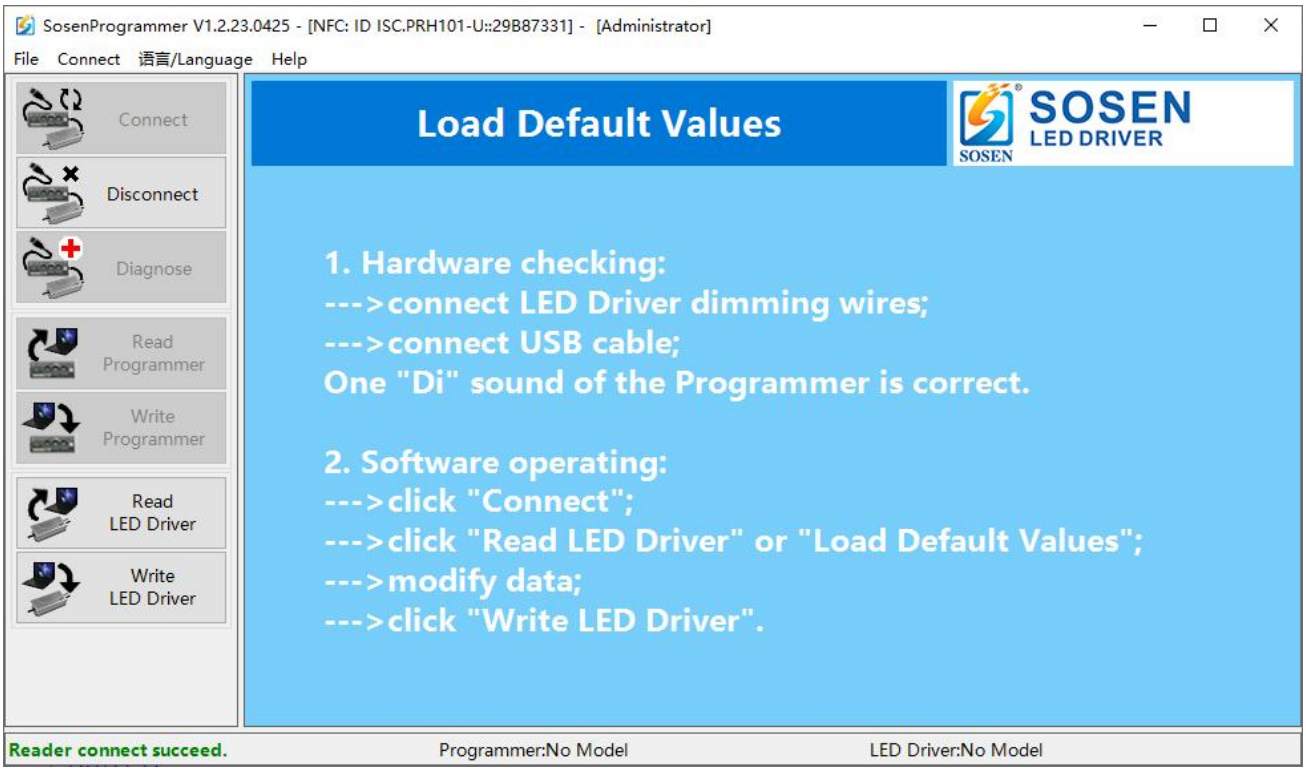
1. FEIG ID CPR30+ reader.
2. FEIG ID ISC. PRH101-USB reader.

FEIG ID CPR30+ reader

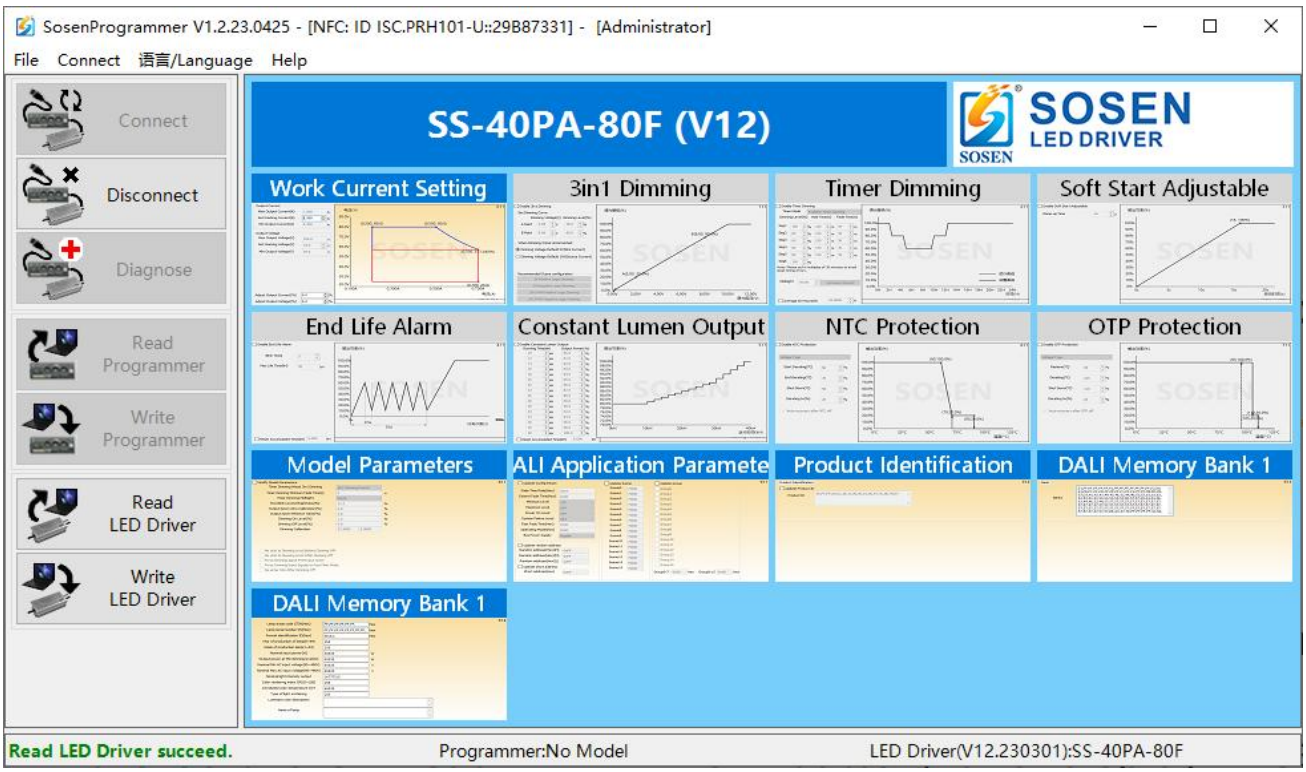
FEIG ID ISC.PRH101-USB reader

4.2 Connect the NFC reader with the LED driver

Connect the NFC reader to the USB port of the computer, click the "Connect" button of the software, and display "Reader connect succeed.", indicating that the reader connection is successful.



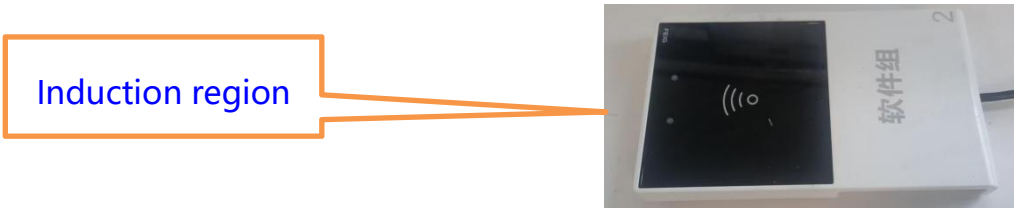
Close the NFC area of the LED driver to the NFC reader near the NFC reader, click the software "Read LED Driver" button, and display "Read LED Driver succeed.", indicating that the LED driver reading is successful.



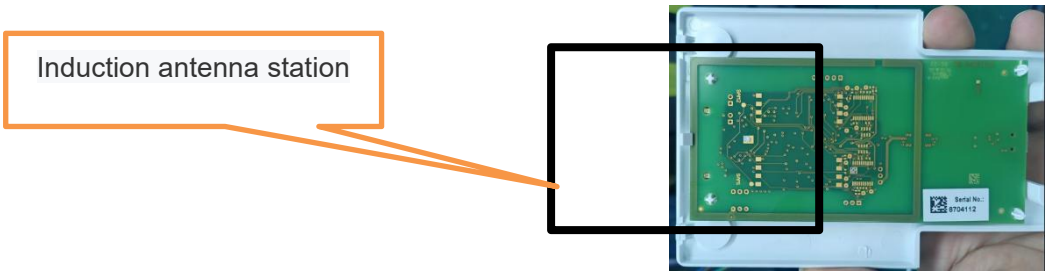
4.3 DALI Device NFC Burning instruction

NFC programming is an operation that modifies product parameters through wireless signals. Due to the inherent limitations of wireless signals, the following precautions should be taken during programming:

4.3.1.Cardboard Programming



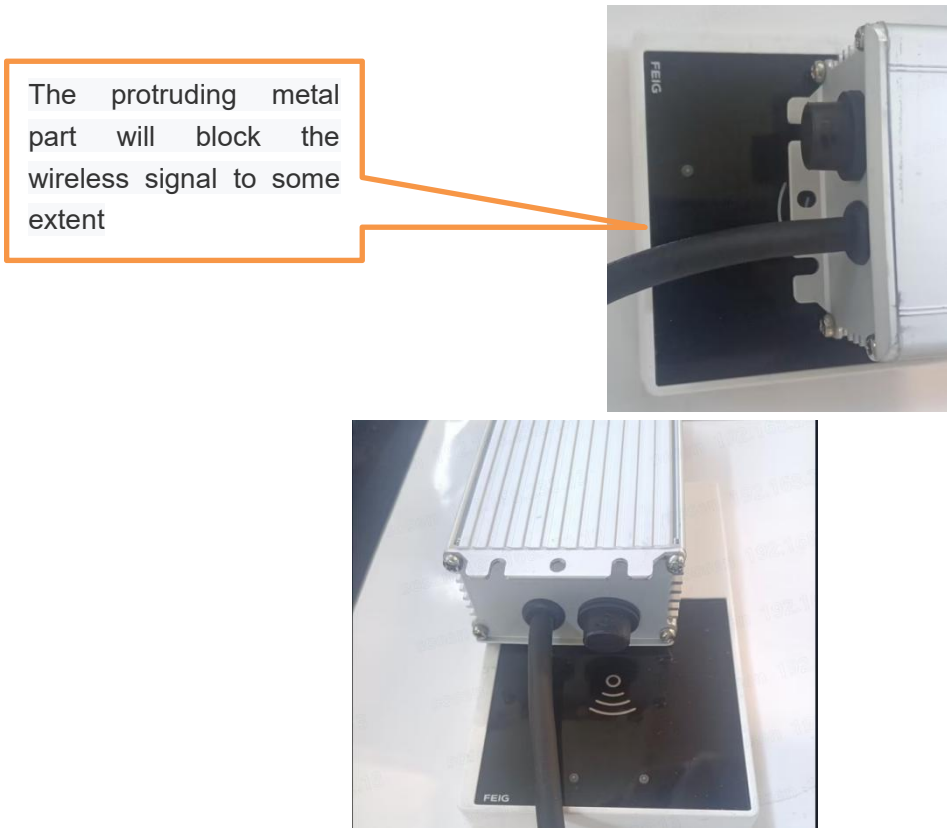
1）For the card-type NFC programmer, the black panel part is the location of the antenna. As shown in the figure below, the antenna is located in the middle of the panel. Therefore, when programming, try to place the product's programming antenna in the center of the black panel and not too close to the edge, otherwise, it will exceed the range of the card antenna and cause read/write operation failure;



2) The programmer should not be placed on a metal surface during programming, otherwise, the wireless signal will be shielded unilaterally, leading to read/write operation failure;

3) Since the GA-E model has a metal casing, the area of the product covering the antenna location during programming must not exceed 50%, otherwise, it will cause read/write operation failure due to signal shielding;

4) Due to overall size limitations, the NFC antenna of the GA-E DALI device is relatively compact, with a small induction area. The marketing department recommends placing the antenna near the top of the product for customers to perform burning operations from the top. Therefore, when programming, try to place the card programmer on the top of the product to minimize the impact of protruding metal parts on programming.

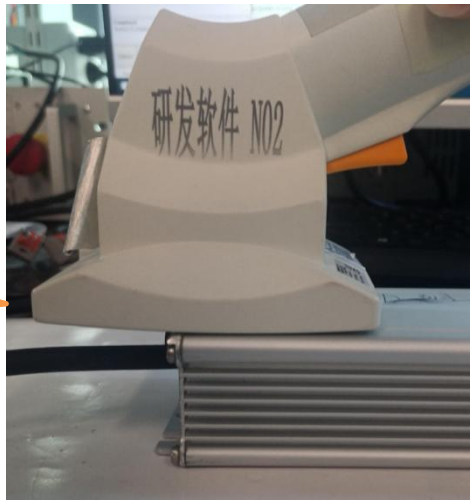


Recommended Placement Method

4.3.2.Handheld NFC Programmer

The precautions for the handheld programmer are similar to those for the card-type programmer. The contact area between the panel and the product during programming must not exceed 50% of the panel, and do not tightly adhere to the top of the product. Try to tilt or slightly lift the programmer during programming to maintain a certain distance between the panel and the top of the product:

When burning, the contact area between the panel and the product shall not exceed the panel



The recommended programming method is shown in the figure below

:

4.3.3 Matters needing attention

NFC burning is the operation of modifying product parameters through wireless signals. Due to the limitations of wireless signals themselves, the following matters should be paid attention to when burning:

1) Card type NFC card reader model is CPR30+, handheld NFC card reader model is PRH101.

2) Card plate and handheld NFC card reader when working with LED driver power, the working environment should be in non-metal desktop.

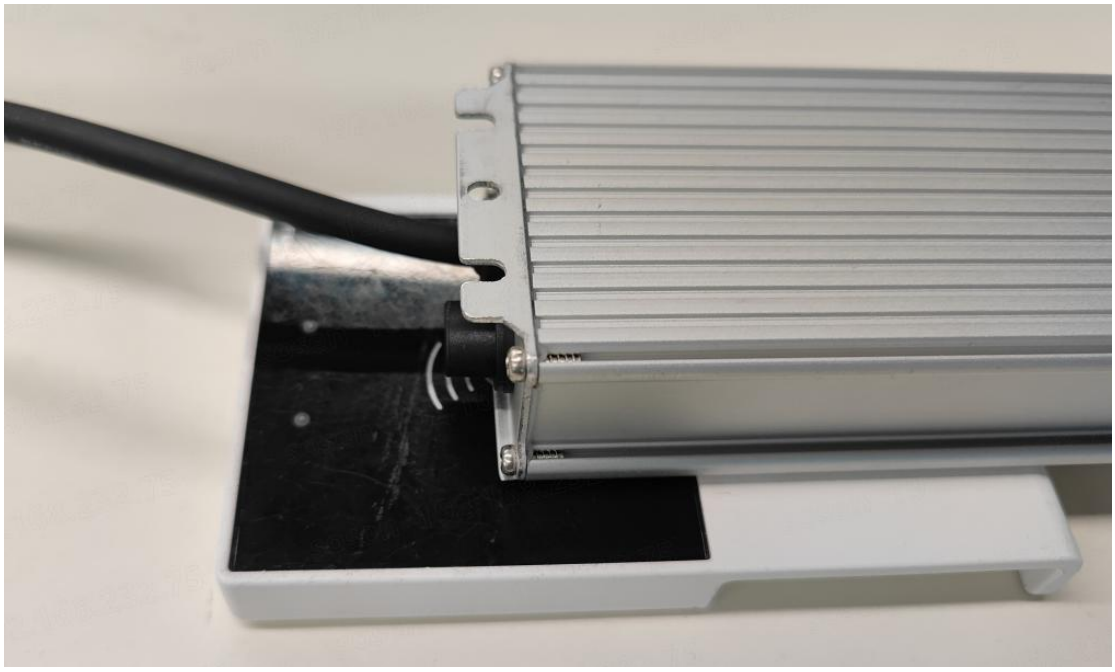
3) The card plate and handheld NFC card reader only support one-to-one programming when working with the LED driver power supply, and an NFC card

reader cannot program multiple LED driver power supplies at the same time.

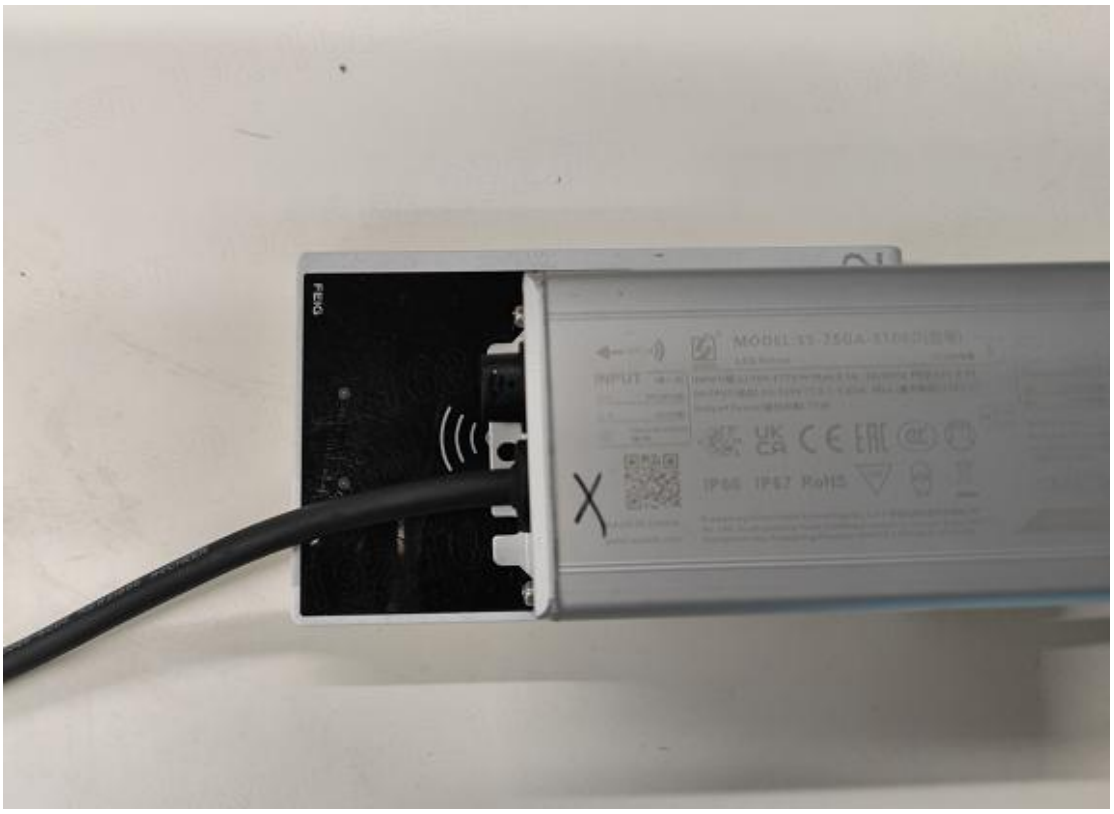
4) Currently, it only supports programming when the LED driver power is off

4.4 Plate burning diagram

4.4.1Place the diagram in the correct position



4.4.2Incorrect placement position diagram



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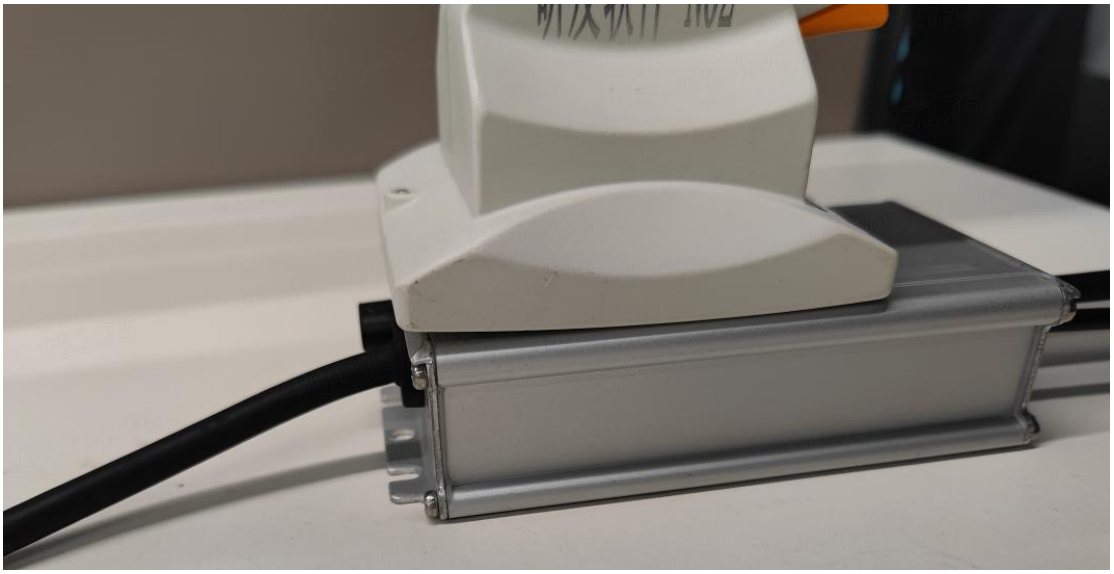
4.5Handheld card reader

4.5.1Place the diagram in the correct position

4.5.2Incorrect placement position diagram



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