NFC Commissioning

Note: During the whole programming process, make sure the coupler is disconnected from DALI bus.

1. Download NFC App

Step 1: Download and install NFC Programming App to your smart phone or tablet by scanning the following QR codes:

iOS App QR Code

Android App QR Code

Note: Please make sure that your smart phone or tablet supports NFC function.

2. Add Configuration

Step 1: Run the installed app SR NFC Tool as shown in **Figure 1**. Tap on "+" button at upper right corner to add a configuration as shown in **Figure 2**, there are two options: "**Scan from a device**", "**Create a default configuration**".

"**Scan from a device**" means to import a configuration from an existing control unit, tap on "**Scan from a device**", then touch the NFC position of the already programmed control unit with your smart phone or tablet NFC reception area, there should be indication on the app once the configuration is read and imported successfully.

"**Create a default configuration**" means to select a default configuration from the app, tap on "**Create a default configuration**", then name the configuration and select "**DALI 2400PD 4KEY**" configuration from the list, then tap on "Save" button at upper right corner as shown in **Figure 3**. The created configuration "**SR-DA2833PN-DA2**" will be listed under configuration page as shown in **Figure 4**.

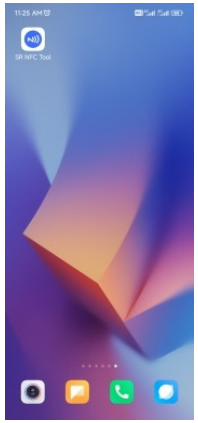

Figure 1

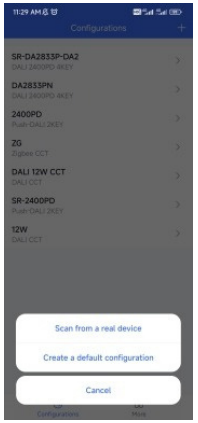

Figure 2

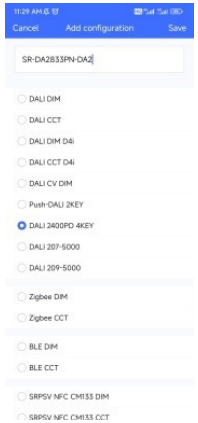

Figure 3

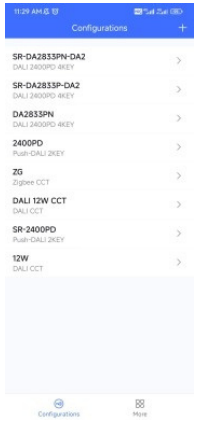

Figure 4

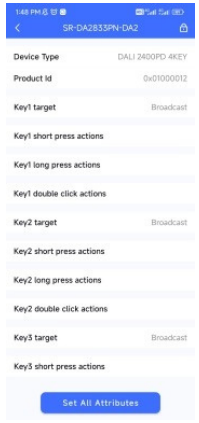

Figure 5

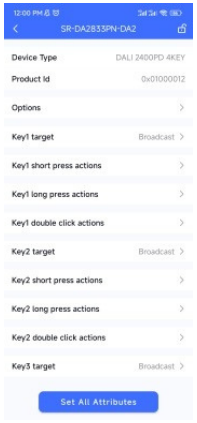

Figure 6

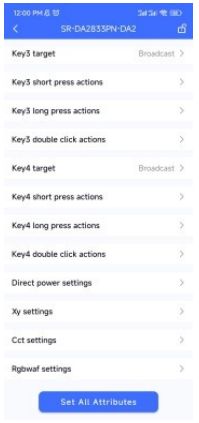

Figure 7

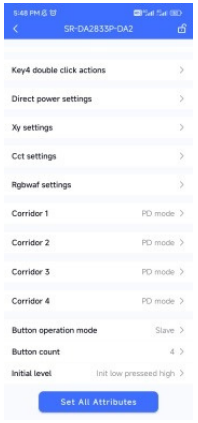

Figure 8

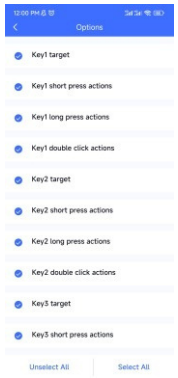

Figure 9

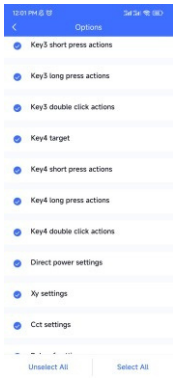

Figure 10

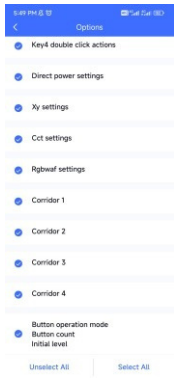

Figure 11

Figure 12

Step 2: Tap the copied or created configuration for instance "**SR-DA2833PN-DA2**" as shown in **Figure 4** to enter programming interface. Tap on " " button at upper right corner to unlock the setting as shown in **Figure 5**. We can set the attributes as shown in , **Figure 6**, **Figure 7**, and **Figure 8**.

3. Enable Options of Configuration Parameters

Step 1: "**Options**" setting: tap "**Options**" as shown in **Figure 6**, we can select the options we would like to set as shown in **Figure 9**, **Figure 10,** and **Figure 11**.

"**target**" is to set controlled target of a key.

"**short press actions**" is to set the DALI command triggered by short press of a key.

"**long press actions**" is to set the DALI command triggered by long press of a key.

"**double click actions**" is to set the DALI command triggered by double click of a key.

"**Direct power settings**" is to set direct brightness values that can be triggered by a key, only when this option is selected, and values of "Direct power settings" are set, a key can trigger a Direct ARC power value. (it's not selected by factory default)

"**Xy settings**" is to set XY coordinate values that can be triggered by a key, only when this option is selected, and values of "Xy settings" are set, a key can trigger XY coordinate value. (it's not selected by factory default)

"**Cct settings**" is to set color temperature values that can be triggered by a key, only when this option is selected, and values of "Cct settings" are set, a key can trigger a color temperature value. (it's not selected by factory default)

"**Rgbwaf settings**" is to set a color by setting the values of RGBWAF channels separately, and the color can be triggered by a key, only when this option is selected, and values of "Rgbwaf settings" are set, a key can trigger a RGBWAF color value. (it's not selected by factory default)

"**Corridor 1**" is the option that enables users to set the operation mode of K1 input of the control unit as CD mode or PD mode. Once this option is selected, users can select the operation mode of the K1 input: CD (Corridor Dim) mode or PD (Push Dim) mode. If this option is not selected, the operation mode of K1 input of the control unit can only be PD mode. (it's not selected by factory default)

"**Corridor 2**" is the option that enables users to set the operation mode of K2 input of the control unit as CD mode or PD mode. Once this option is selected, users can select the operation mode of the K2 input: CD (Corridor Dim) mode or PD (Push Dim) mode. If this option is not selected, the operation mode of K2 input of the control unit can only be PD mode. (it's not selected by factory default)

"**Corridor 3**" is the option that enables users to set the operation mode of K3 input of the control unit as CD mode or PD mode. Once this option is selected, users can select the operation mode of the K3 input: CD (Corridor Dim) mode or PD (Push Dim) mode. If this option is not selected, the operation mode of K3 input of the control unit can only be PD mode. (it's not selected by factory default)

"**Corridor 4**" is the option that enables users to set the operation mode of K4 input of the control unit as CD mode or PD mode. Once this option is selected, users can select the operation mode of the K4 input: CD (Corridor Dim) mode or PD (Push Dim) mode. If this option is not selected, the operation mode of K4 input of the control unit can only be PD mode. (it's not selected by factory default)

"**Button Operation mode and button count**" is the option that enables users to set DALI operation mode of the coupler and the number of buttons to be used. This option should be selected and enabled so that the user can select the DALI instance mode or standalone mode. (it's not selected by factory default)

4. Select DALI Instance Mode or Standalone Mode Before Configuration

Once "Options" are selected, the configuration interface will list all options that can be set as shown in **Figure 6, Figure 7** and **Figure 8**.

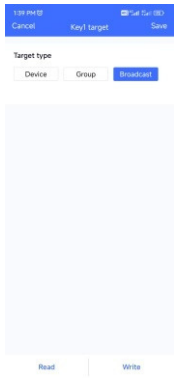

Figure 13

Figure 14

Figure 15

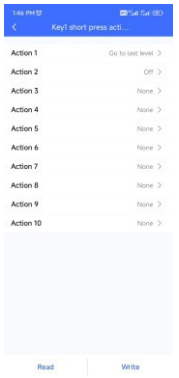

Figure 16

Before configuration, the user should select DALI instance mode or standalone mode through the parameter "**Button Operation mode and button count**". Tap on "**Button operation mode and button count**" parameter as shown in **Figure 8** to enter setting page as shown in **Figure 12**, set the parameters "**Button operation mode**" and "**Button count**" respectively. Then tap on "save" at upper right corner.

"**Button operation mode**": There are two choices for button operation mode, one is "**Master**", which means standalone mode. the other is "**Slave**", which means DALI-2 instance mode.

"**Button count**": this coupler supports up to 4 inputs, the user can select how many inputs to be used, there are 4 choices: 1, 2, 3, 4, which mean how many inputs will work after select. 1 means only K1 will work, 2 means only K1 and K2 will work, 3 means only K1, K2and K3 will work, 4 means K1, K2, K3 and K4 will work. Factory default is 4.

5. Configure the PD Mode

Step 1: "**Key1 target**" setting: tap "**Key1 target**" as shown in **Figure 6**, we can set controlled target of key 1 as shown in **Figure 13**, **Figure 14** and **Figure 15**. There are three options: "**Broadcast** (factory default)", "**Device** (single DALI control gear)", "**Group** (a DALI group)". "**Save**" button at upper right corner means save the setting to smart phone, "**Read**" button at the bottom means read and import this single attribute from an existing control unit though NFC if you do not want to configure by yourself , "**Write**" button at the bottom means write this single attribute to a control unit though NFC.

"**Broadcast**" is to control all DALI ECGs on the DALI line through broadcast.

"**Device**" is to control a single DALI ECG on the DALI line, you can select an ECG address from 0-63 that you want to control, then tap on "Save" button at upper right corner to save the setting as shown in **Figure 14**.

"**Group**" is to control a group of DALI ECGs on the DALI line, you can select an ECG group address from 0-15 that you want to control, then tap on "**Save**" button at upper right corner to save the setting as shown in **Figure 15**.

Step 2: "**Key1 short press actions**" setting: tap "**Key1 short press actions**" as shown in **Figure 6**, we can set the DALI commands triggered by short press of key 1 as shown in **Figure 16**. Up to 10 actions can be set, which means you can set up to 10 actions (Action 1 to Action 10) triggered by 10 times short press in sequence as a cycle, 1st short press triggers Action 1, 2nd short press triggers Action 2, ..., 10th short press triggers Action 10, 11th short press triggers Action 1, 12th short press triggers Action 2, ..., 20th short press triggers Action 10, ... By factory default, only 2 actions are set, other actions are not set, that means only Action 1 and Action 2 triggered by 2 times short press in sequence as a cycle. Available settings are as follows:

Figure 17

Figure 18

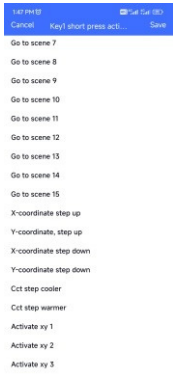

Figure 19

Figure 20

"**Direct arc power control 1-16** " is to trigger a direct brightness level as shown in **Figure 17**. These actions only work when "**Direct power settings**" optionvalues are set.

"**Off**" means turn off, "**Up**" means smooth dim up, "**Down**" means smooth dim down, "**Step up**" means step dim up, "**Step down**" means step dim down, "**Recall max**" means recall max level, "**Recall min**" means recall min level, "**Step down and off**" means stepdim down and off, "**On and step up**" means turn on and step dim up, "**Go to last level**" means go to last active level before turnoff as shown in **Figure 17** and **Figure 18**.

"**Goto scene 0-15**" is to trigger a DALI scene as shown in **Figure 18** and **Figure 19**. These actions only work when DALI scenes arealready configured for the ECGs.

"**X-coordinate step up**" is to step up x-coordinate value, "**Y-coordinate step up**" is to step up y-coordinate value as shown in **Figure 19.**

"**Xcoordinate step down**" is to stepdown - xcoordinate value , "**Y-coordinate stepdown**" is to stepdown - ycoordinate value asshown in **Figure 19.**

"**Cctstep cooler**" istostepthecolor temperature value to cooler , "**Cct step warmer**" is to step the color temperature value to warmer as shown in **Figure 19**.

Figure 21

Figure 22

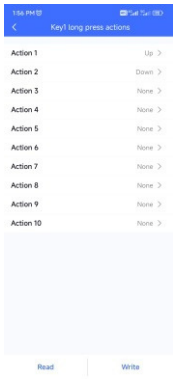

Figure 23

Figure 24

"**Activate Xy 1-16**" is to trigger a Xy color as shown in **Figure 19** and **Figure 20**. These actions only work when "**Xy settings**" option values are set.
"**Activate cct 1-16**" is to trigger a color temperature as shown in **Figure 20** and **Figure 21**. These actions only work when "**Cct settings**" option values are set.

"**Activate Rgbwaf 1-16**" is to trigger a RGBWAF color as shown in **Figure 21** and **Figure 22**. These actions only work when "**Rgbwaf settings**" option values are set.
Once the actions are set as shown in **Figure 16**, "**Save**" button at upper right corner means save the setting to smart phone, "**Read**" button at the bottom means read and import this single attribute from an existing control unit though NFC if you do not want to configure by yourself, "**Write**" button at the bottom means write this single attribute to a control unit though NFC.

Step 3: "**Key1 long press actions**" setting: tap "**Key1 long press actions**" as shown in **Figure 6**, we can set the DALI commands triggered by long press of key 1 as shown in **Figure 23**. Up to 10 actions can be set, which means you can set up to 10 actions (Action 1 to Action 10) triggered by 10 times long press in sequence as a cycle, 1st long press triggers Action 1, 2nd long press triggers Action 2, ..., 10th long press triggers Action 10, 11th long press triggers Action 1, 12th long press triggers Action 2, ..., 20th long press triggers Action 10, ... By factory default, only 2 actions are set, other actions are not set, that means only Action 1 and Action 2 triggered by 2 times long press in sequence as a cycle.
Available settings for long press actions are similar to short press actions as shown in **Figure 24**, **Figure 25**, **Figure 26**, **Figure 27** **Figure 28** and **Figure 29**, please refer to the settings of short press actions. There are some additional settings for long press actions as follows:

"**Rgb loop1 (clockwise)**" is to loop RGB channels clockwisely, "**Rgb loop1 (anticlockwise)**" is to loop RGB channels anticlockwisely as shown in **Figure 24**.

"**Waf loop1 (clockwise)**" is to loop WAF channels clockwisely, "**Waf loop1 (anticlockwise)**" is to loop WAF channels anticlockwisely as shown in **Figure 24**.

"**W loop1 (clockwise)**" is to loop W channel cockwisely, "**W loop1 (anticlockwise)**" is to loop W channels anticlockwisely as shown in **Figure 24**.

Once the actions are set as shown in **Figure 23**, "**Save**" button at upper right corner means save the setting to smart phone, "**Read**" button at the bottom means read and import this single attribute from an existing control unit though NFC if you do not want to configure by yourself, "**Write**" button at the bottom means write this single attribute to a control unit though NFC.

Figure 25

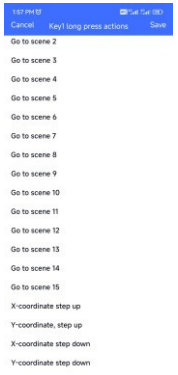

Figure 26

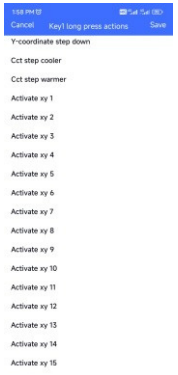

Figure 27

Figure 28

Figure 29

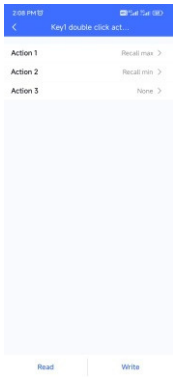

Figure 30

Figure 31

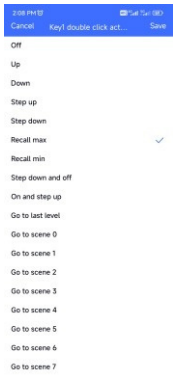

Figure 32

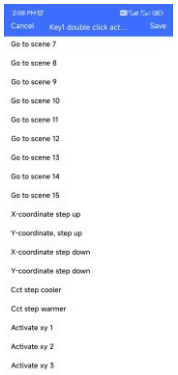

Figure 33

Figure 34

Figure 35

Figure 36

Step 4: "**Key1 double click actions**" setting: tap "**Key1 double click actions**" as shown in **Figure 6**, we can set the DALI commands triggered by double click of key 1 as shown in **Figure 30**. Up to 3 actions can be set, which means you can set up to 3 actions (Action 1 to Action 3) triggered by 3 times double click in sequence as a cycle, 1st double click triggers Action 1, 2nd double click triggers Action 2, 3rd double click triggers Action 3, 4th double click triggers Action 1, 5th double click triggers Action 2, 6th double click triggers Action 3, ... By factory default, only 2 actions are set, other actions are not set, that means only Action 1 and Action 2 triggered by 2 times double click in sequence as a cycle.

Available settings for double click actions are similar to short press actions as shown in **Figure 31**, **Figure 32**, **Figure 33**, **Figure 34**, **Figure 35** and **Figure 36**, please refer to the settings of short press actions.

Once the actions are set as shown in **Figure 30**, "**Save**" button at upper right corner means save the setting to smart phone, "**Read**" button at the bottom means read and import this single attribute from an existing control unit though NFC if you do not want to configure by yourself, "**Write**" button at the bottom means write this single attribute to a control unit though NFC.

Step 5: "**Key2 target**" setting: tap "**Key2 target**" as shown in **Figure 6**, we can set controlled target of key 2, please refer to **Step 1** "**Key1 target**" for detailed settings.

Step 6: "**Key2 short press actions**" setting: tap "**Key2short press actions**" asshowninFigure6 , we can set the DALI commands triggered by short press of key 2, please refer to **Step 2** "**Key1 short press actions**" for detailed settings.

Step 7: "**Key2 long press actions**" setting: tap "**Key2long press actions**" asshowninFigure6 , we can set the DALI commands triggered by long press of key 2, please refer to **Step 3** "**Key1 long press actions**" for detailed settings.

Step 8: "**Key2 double click actions**" setting: tap "**Key2double click actions**" as shown in Figure6 , we can set the DALI commands triggered by double click of key 2, please refer to **Step 4** "**Key1 double click actions**" for detailed settings.

Figure 37

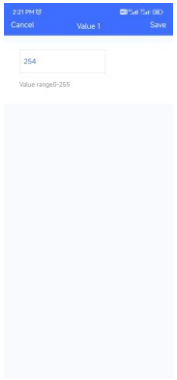

Figure 38

Figure 39

Figure 40

Step 9: "**Key3 target**", "**Key3 short press actions**", "**Key3 long press actions**", "**Key3 double click actions**" **settings** as shown in **Figure 7**: please refer to **the settings** of "**Key1 target**", "**Key1 short press actions**", "**Key1 long press actions**", "**Key1 double click actions**" for detailed settings.

Step 10: "**Key4 target**", "**Key4 short press actions**", "**Key4 long press actions**", "**Key4 double click actions**" **settings** as shown in **Figure 7**: please refer to **the settings** of "**Key1 target**", "**Key1 short press actions**", "**Key1 long press actions**", "**Key1 double click actions**" for detailed settings.

Step 11: "**Direct power settings**" setting: tap "**Direct power settings**" as shown in **Figure 7**, we can set 15 brightness values as shown in **Figure 37**, tap on a value to enter setting interface as shown in **Figure 38**, setting range is 0-255, 0-254 means 0-100%, 255 means mask. Tap on "Save" button at the upper right corner to save the setting as shown in **Figure 38**.

Once the values are set as shown in **Figure 37**, "**Read**" button at the bottom means read this single attribute from an existing control unit though NFC, "**Write**" button at the bottom means write this single attribute to a control unit though NFC.

Figure 41

Figure 42

Figure 43

Figure 44

Step 12: "**Xy settings**" setting: tap "**Xy settings**" as shown in **Figure 7**, we can set 16 XY coordinate values as shown in **Figure 39**, tap on a value to enter setting interface as shown in **Figure 40**, setting range is 0-1. Tap on "Save" button at the upper right corner to save the setting as shown in **Figure 40**.

Once the values are set as shown in **Figure 39**, "**Read**" button at the bottom means read and import this single attribute from an existing control unit though NFC if you do not want to configure by yourself, "**Write**" button at the bottom means write this single attribute to a control unit though NFC.

Step 13: "**Cct settings**" setting: tap "**Cct settings**" as shown in **Figure 7**, we can set 16 color temperature values as shown in **Figure 41**, tap on a value to enter setting interface as shown in **Figure 42**, setting range is 1000-10000K. Tap on "Save" button at the upper right corner to save the setting as shown in **Figure 42**.

Once the values are set as shown in **Figure 42**, "**Read**" button at the bottom means read and import this single attribute from an existing control unit though NFC if you do not want to configure by yourself, "**Write**" button at the bottom means write this single attribute to a control unit though NFC.

Step 14: "**Rgbwaf settings**" setting: tap "**Rgbwaf settings**" as shown in **Figure 8**, we can set 16 RGBWAF values as shown in **Figure 43**, tap on a value to enter setting interface as shown in **Figure 44** and **Figure 45**, you can set RGBWAF channels separately, setting range for each channel is 0-254 (0-100%). Tap on "Save" button at the upper right corner to save the setting as shown in **Figure 44**.

Once the values are set as shown in **Figure 43**, "**Read**" button at the bottom means read and import this single attribute from an existing control unit though NFC if you do not want to configure by yourself, "**Write**" button at the bottom means write this single attribute to a control unit though NFC.

Figure 45

Figure 46

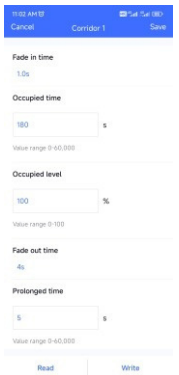

Figure 47

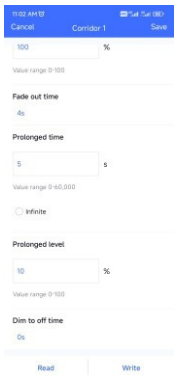

Figure 48

6. Select Push Dim or Corridor Dim Mode and Set Parameters of CD Mode

Step 1: "**Corridor 1**" setting: tap "**Corridor 1**" as shown in **Figure 8**, we can set the operation mode of K1 input of the control unit as shown in **Figure 46**, factory default mode is "**PD**" mode. If users set the mode to "**CD**" mode, K1 input can be connected with a dry contact motion sensor and detects motion to control the targets of Key 1. The available setting parameters for the motion sensor are as follows as shown in **Figure 47** and **Figure 48**:

"**Fade in time**" is to set the fade time that the target DALI ECGs fade in to the set occupied level from current status after motion detected as shown in **Figure 47**. Tap on "Fade in time" to enter the value setting page, available setting is 0S~90.5S, factory default setting is 1S as shown in **Figure 49**.

"**Occupied time**" is to set the how long will the occupied level last as shown in **Figure 47**. Available setting is 0S~60000S, factory default setting is 180S as shown in **Figure 47**.

"**Occupied level**" is to set the brightness that the target DALI ECGs will turn to after motion detected as shown in **Figure 47**. Available setting is 0~100%, factory default setting is 100% as shown in **Figure 47**.

"**Fade out time**" is to set the fade time that the target DALI ECGs fade out to the set prolonged level from occupied level after occupied time expires as shown in **Figure 47**. Tap on "Fade out time" to enter the value setting page, available setting is 0S~90.5S, factory default setting is 4S as shown in **Figure 50**.
"**Prolonged time**" is to set how long will the prolonged level last as shown in **Figure 47**. Available setting is 0S~60000S and infinite, factory default setting is 5S as shown in **Figure 47**. Infinite means the prolonged level will last forever and never fade off.

"**Prolonged level**" is to set the brightness that the target DALI ECGs will turn to after occupied time expires as shown in **Figure 48**. Available setting is 0~100%, factory default setting is 10% as shown in **Figure 48**.

"**Dim-to-off time**" is to set the fade time that the target DALI ECGs fade to off from prolonged level after prolonged time expires as shown in **Figure 48**. Tap on "Dim-to-off time" to enter the value setting page, available setting is 0S~90.5S, factory default setting is 0S as shown in **Figure 51**.

Figure 49

Figure 50

Figure 51

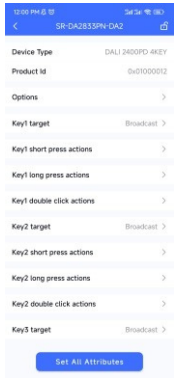

Figure 52

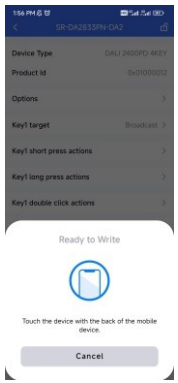

Figure 53

Figure 54

Step 2: "**Corridor 2**" setting: tap "**Corridor 2**" as shown in **Figure 8**, we can set the operation mode of K2 input of the control unit, factory default mode is "**PD**" mode. If users set the mode to "**CD**" mode, K2 input can be connected with a dry contact motion sensor and detects motion to control the targets of Key 2. The available setting parameters for the motion sensor are the same as K1's motion sensor setting, please refer to the settings of the K1's motion sensor.

Step 3: "**Corridor 3**" setting: tap "**Corridor 3**" as shown in **Figure 8**, we can set the operation mode of K3 input of the control unit, factory default mode is "**PD**" mode. If users set the mode to "**CD**" mode, K3 input can be connected with a dry contact motion sensor and detects motion to control the targets of Key 3. The available setting parameters for the motion sensor are the same as K1's motion sensor setting, please refer to the settings of the K1's motion sensor.

Step 4: "**Corridor 4**" setting: tap "**Corridor 4**" as shown in **Figure 8**, we can set the operation mode of K4 input of the control unit, factory default mode is "**PD**" mode. If users set the mode to "**CD**" mode, K4 input can be connected with a dry contact motion sensor and detects motion to control the targets of Key 4. The available setting parameters for the motion sensor are the same as K1's motion sensor setting, please refer to the settings of the K1's motion sensor.

7. Write the Settings to the Coupler

Step 1: once all settings are completed as shown in **Figure 52**, we need to write all attributes to the control unit through NFC, tap on "**Set All Attributes**" as shown in **Figure 53**, then touch the control unit NFC position with the NFC reception area of the smart phone as the app instructed as shown in **Figure 53**. Once write successfully, there shall be a pop-up window to indicate as shown in **Figure 54**.

Installation