

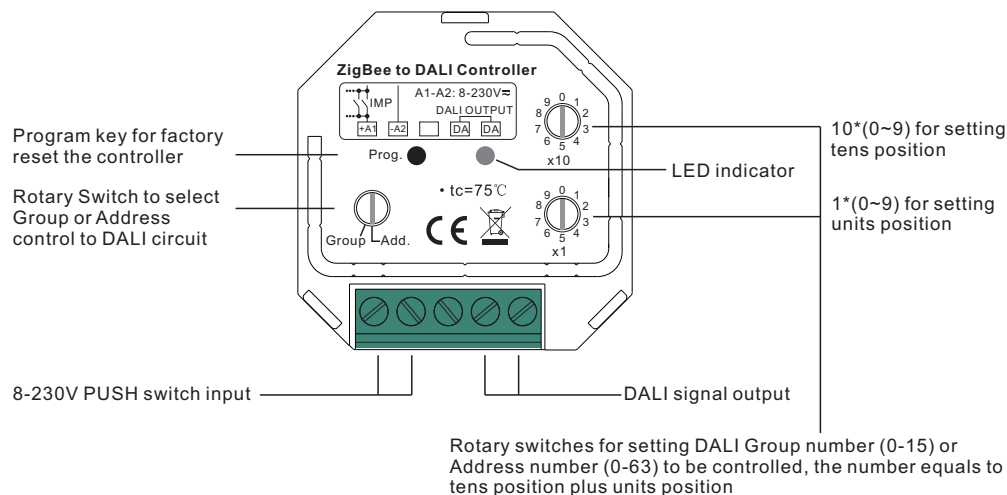
# ZigBee to DALI DT6 Controller

09.2411ZGDIM.04791



**Important:** Read All Instructions Prior to Installation

## Function introduction



- Compatible with universal ZigBee dim remotes
- Can be controlled by universal 8V-230V input single wire PUSH switch
- Enable to select Group control or Address control to DALI line by a rotary switch
- Enable to control 1 DALI Group of devices or 1 DALI Address on DALI line
- Enable to control all devices on DALI line via broadcast
- Enable to select any DALI Group (0-15) or DALI Address (00-63) to control by rotary switches
- Each DALI line can install multiple controllers for multi control points
- Waterproof grade: IP20

## Safety & Warnings

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

## ZigBee Clusters the device supports are as follows:

### Input Clusters

- 0x0000: Basic
- 0x0003: Identify
- 0x0004: Groups
- 0x0005: Scenes
- 0x0006: On/off
- 0x0008: Level Control
- 0x0b05: Diagnostics

### Output Clusters

- 0x0019: OTA

## Operation

### 1. Select DALI Address/Group Control Mode:

- 1) A rotary switch is used to select Address/Group control mode.
- 2) When the rotary switch arrow is at Add. position, address control mode is selected.
- 3) When the rotary switch arrow is at Group position, group control mode is selected.

### 2. Select DALI Address to be Controlled:

- 1) When Address control mode is selected, use the two rotary switches for setting address number (00-64) to select the DALI address (00-63) you would like to control, the number equals to tens position plus units position.
  - 2) Set the address number as 0, all DALI devices on the circuit will be controlled through broadcast.
  - 3) Set the address number as X except 0 (01-64), control gear with DALI address X-1 will be controlled.
- Note: if X is set as 64, control gears with DALI address 63 will be controlled by the controller.

### 3. Select DALI Group to be Controlled:

- 1) When Group control mode is selected, use the two rotary switches for setting group number to select the DALI group (0-15 selectable) you would like to control, the number equals to tens position plus units position.
- 2) This DALI controller enables on/off and dimming commands to be sent to 1 Group of devices on the DALI circuit.
- 3) When group number is set as 0, all DALI devices on the circuit will be controlled through broadcast.
- 4) When group number is set as X except 0 (1-15), the controller will control DALI Group X-1.

**Note: Please first group all DALI control gears on the circuit by a master controller.**

Please refer to the detailed Group setting table as follows:

Group Number Setting	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DALI Group Selected	Broadcast	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

**4. This ZigBee device is a wireless receiver that communicates with a variety of ZigBee compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible ZigBee system.**

## Product Data

Input signal	ZigBee/Push
Radio frequency	2.4GHz
Output	DALI signal
Power Supply	Powered by DALI Bus
Current Consumption	70mA
Operating temperature	0-40°C
Relative humidity	8% to 80%
Dimensions(LxWxH)	45.5x45x20.3mm

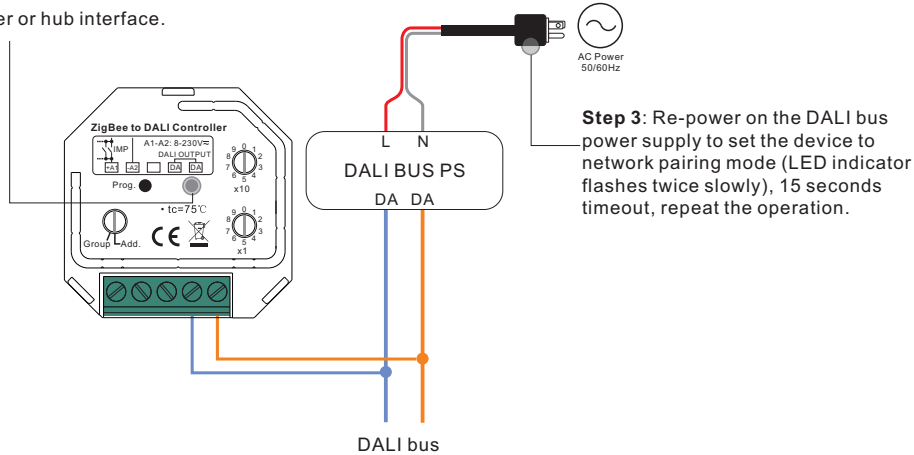
- ZigBee to DALI DT6 Controller based on ZigBee 3.0
- Receives ZigBee signal and outputs DALI signal to DALI line, DALI Bus Powered
- Comply to DALI standard protocol IEC 62386-102, IEC 62386-207 and in compliance with DALI products from other international incorporations
- ZigBee end device that supports Touchlink commissioning
- Supports zigbee green power and can learn to max. 20 zigbee green power remotes
- Can directly pair to a compatible ZigBee remote through Touchlink
- Compatible with universal ZigBee gateway products
- Supports self-forming zigbee network without coordinator
- Enables to add devices to the self-formed zigbee network

## 5. Zigbee Network Pairing through Coordinator or Hub (Added to a Zigbee Network)

**Step 1:** Remove the device from previous zigbee network if it has already been added to, otherwise pairing will fail. Please refer to the part "Factory Reset Manually".

**Step 2:** From your ZigBee Controller or hub interface, choose to add lighting device and enter Pairing mode as instructed by the controller.

**Step 4:** LED indicator will blink 5 times and then stay solid on, then the device will appear in your controller's menu and can be controlled through controller or hub interface.

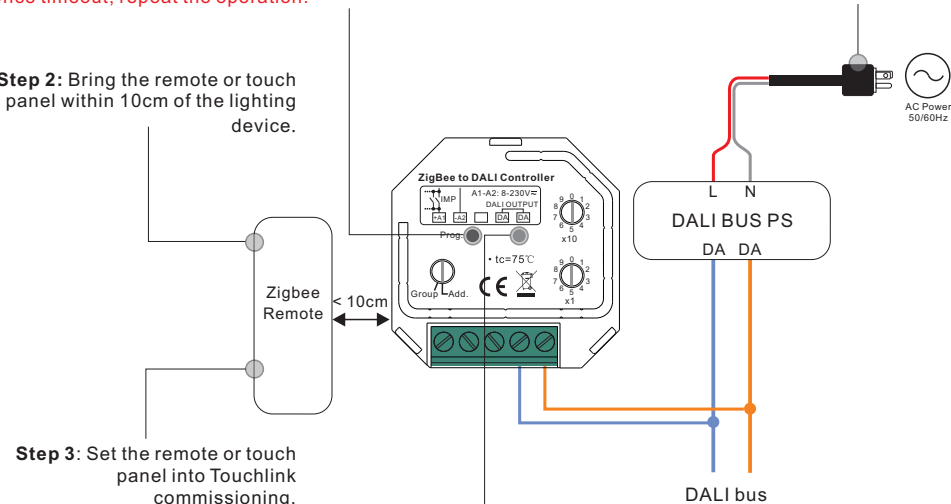


## 6. TouchLink to a Zigbee Remote

**Step 1: Method 1:** Short press "Prog" button (or re-power on the DALI bus power supply) 4 times to start Touchlink commissioning immediately, 180S timeout, repeat the operation.

**Method 2:** Re-power on the DALI bus power supply, Touchlink commissioning will start after 15S if it's not added to a zigbee network, 165S timeout. Or start immediately if it's already added to a network, 180S timeout. Once timeout, repeat the operation.

**Step 2:** Bring the remote or touch panel within 10cm of the lighting device.



**Step 3:** Set the remote or touch panel into Touchlink commissioning, please refer to corresponding remote or touch panel manual to learn how.

**Step 4:** There shall be indication on the remote for successful link and LED indicator will flash twice.

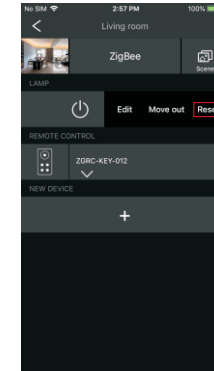
**Note:** 1) Directly TouchLink (both not added to a ZigBee network), each device can link with 1 remote.

2) TouchLink after both added to a ZigBee network, each device can link with max. 30 remotes.

3) For Hue Bridge & Amazon Echo Plus, add remote and device to network first then TouchLink.

4) After TouchLink, the device can be controlled by the linked remotes.

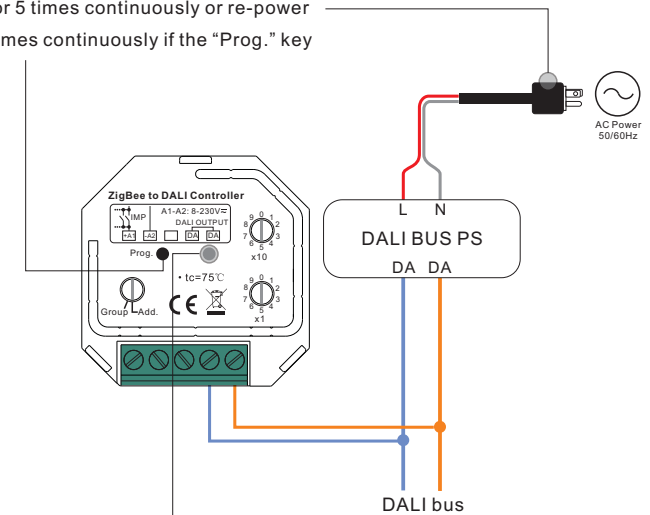
## 7. Removed from a Zigbee Network through Coordinator or Hub Interface



From your ZigBee controller or hub interface, choose to delete or reset the lighting device as instructed. The connected light blinks 3 times to indicate successful reset.

## 8. Factory Reset Manually

**Step 1:** Short press "Prog." key for 5 times continuously or re-power on the DALI bus power supply 5 times continuously if the "Prog." key is not accessible.



**Step 2:** LED indicator will blink 3 times to indicate successful reset.

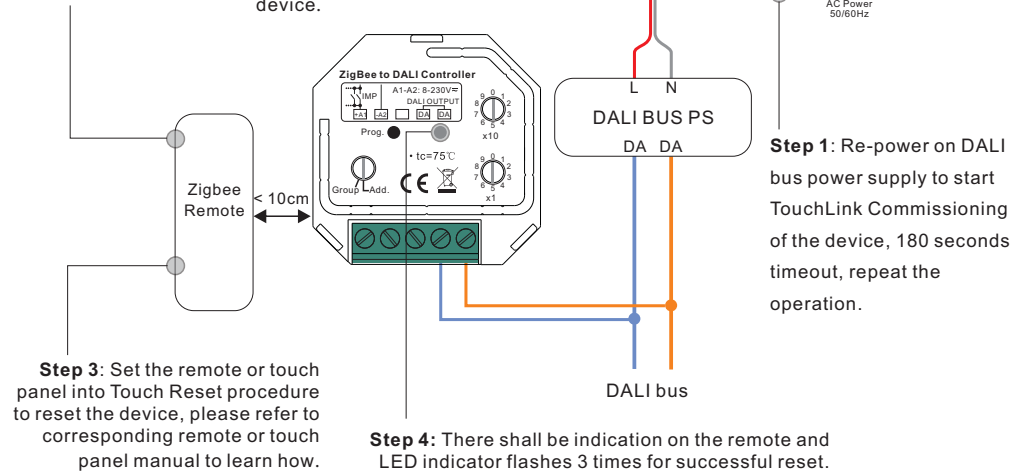
**Note:** 1) If the device is already at factory default setting, there is no indication when factory reset again.

2) All configuration parameters will be reset after the device is reset or removed from the network.

## 9. Factory Reset through a Zigbee Remote (Touch Reset)

**Note:** Make sure the device already added to a network, the remote added to the same one or not added to any network.

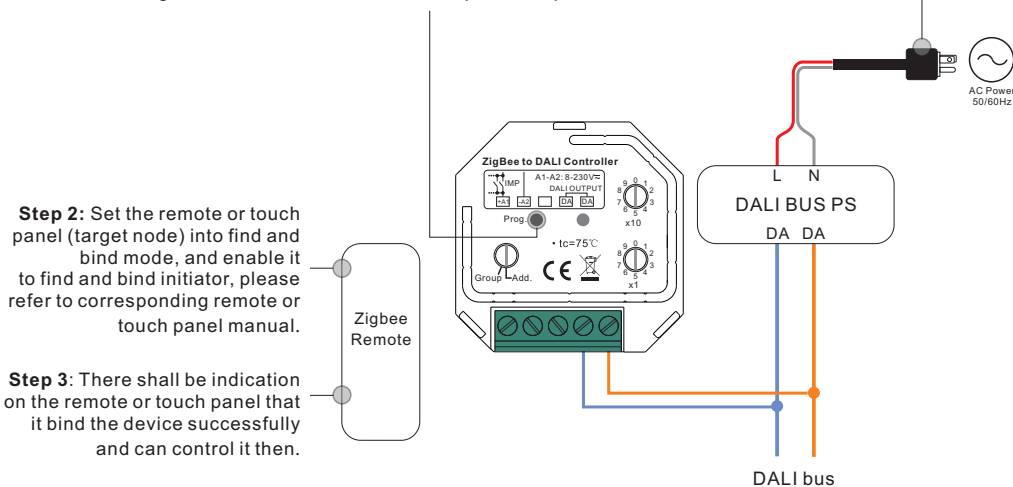
**Step 2:** Bring the remote or touch panel within 10cm of the lighting device.



## 10. Find and Bind Mode

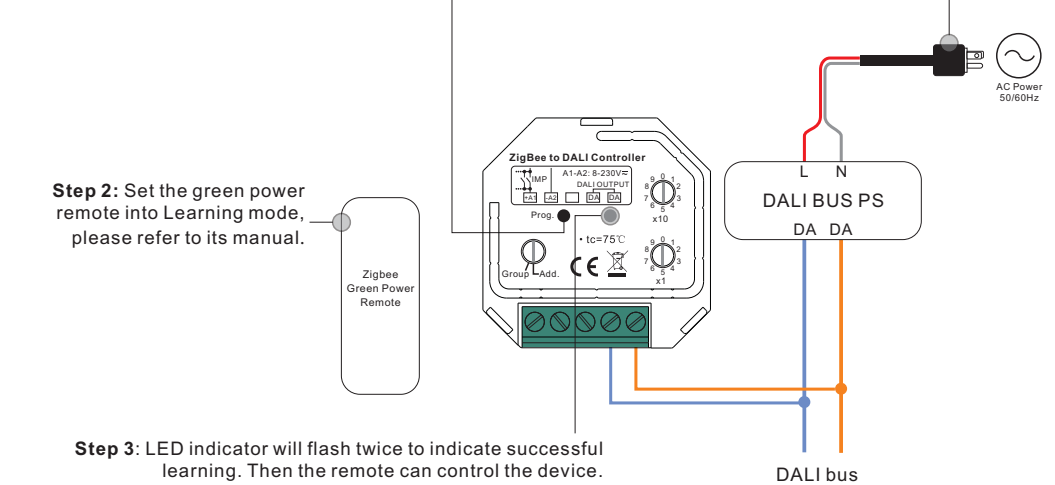
**Note:** Make sure the device and remote already added to the same zigbee network.

**Step 1:** Short press "Prog." button 3 times (Or re-power on DALI bus PS 3 times) to set the device (initiator node) to start Find and Bind mode (LED indicator flashes slowly) to find and bind target node, 180 seconds timeout, repeat the operation.



## 11. Learning to a Zigbee Green Power Remote

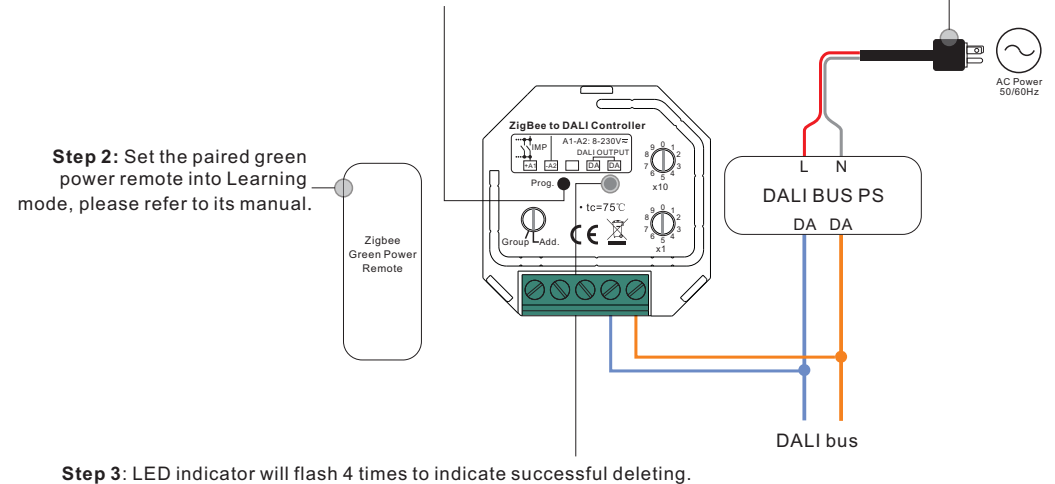
**Step 1:** Short press "Prog." button 4 times (Or re-power on DALI bus PS 4 times) to start Learning mode (LED indicator flashes twice), 180 seconds timeout, repeat the operation.



**Note:** Each device can learn to max. 20 zigbee green power remote.

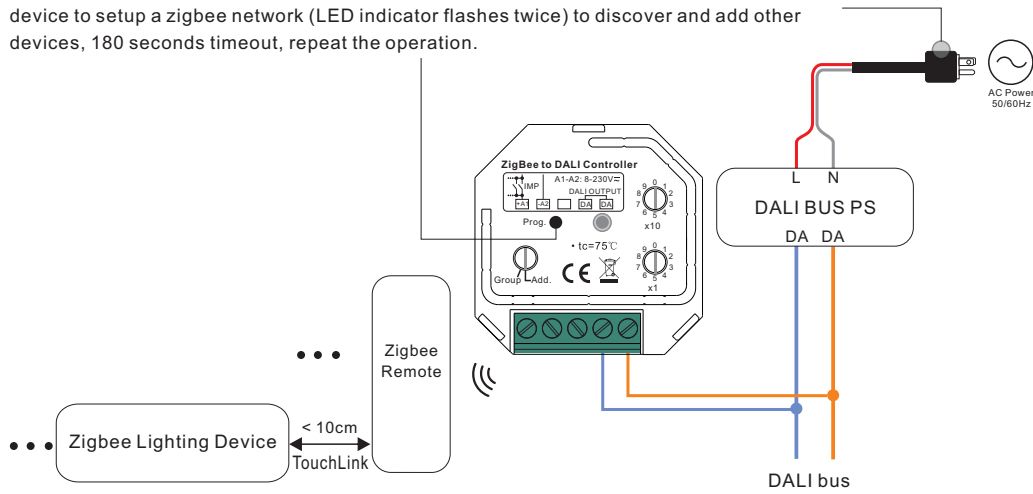
## 12. Delete Learning to a Zigbee Green Power Remote

**Step 1:** Short press "Prog." button 3 times (Or re-power on DALI bus PS 3 times) to start delete Learning mode (LED indicator flashes slowly), 180 seconds timeout, repeat the operation.



### 13. Setup a Zigbee Network & Add Other Devices to the Network (No Coordinator Required)

**Step 1:** Short press "Prog." button 4 times (Or re-power on DALI bus PS 4 times) to enable the device to setup a zigbee network (LED indicator flashes twice) to discover and add other devices, 180 seconds timeout, repeat the operation.



**Step 2:** Set another device or remote or touch panel into network pairing mode and pair to the network, refer to their manuals.

**Step 3:** Pair more devices and remotes to the network as you would like, refer to their manuals.

**Step 4:** Bind the added devices and remotes through Touchlink so that the devices can be controlled by the remotes, refer to their manuals.

**Note: 1) Each added device can link and be controlled by max. 30 added remotes.**

**2) Each added remote can link and control max. 30 added devices.**

### 14. OTA

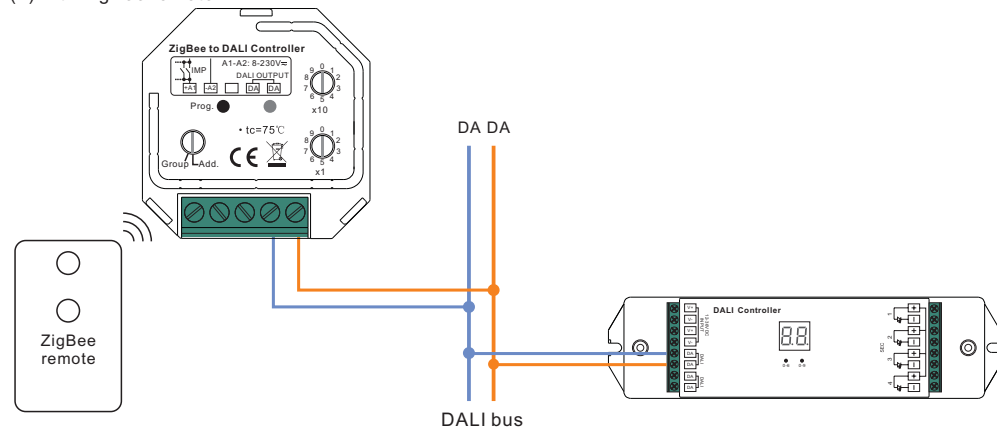
The device supports firmware updating through OTA, and will acquire new firmware from zigbee controller or hub every 10 minutes automatically.

### 15. Push Dim

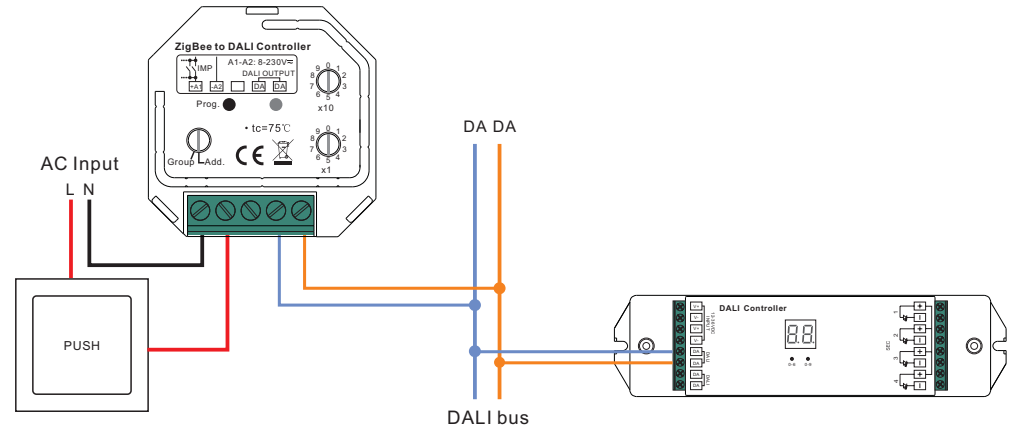
While connected with a push switch, click the button to switch on/off, press and hold down the button to increase/decrease light intensity between 1% and 100%.

### Wiring Diagram

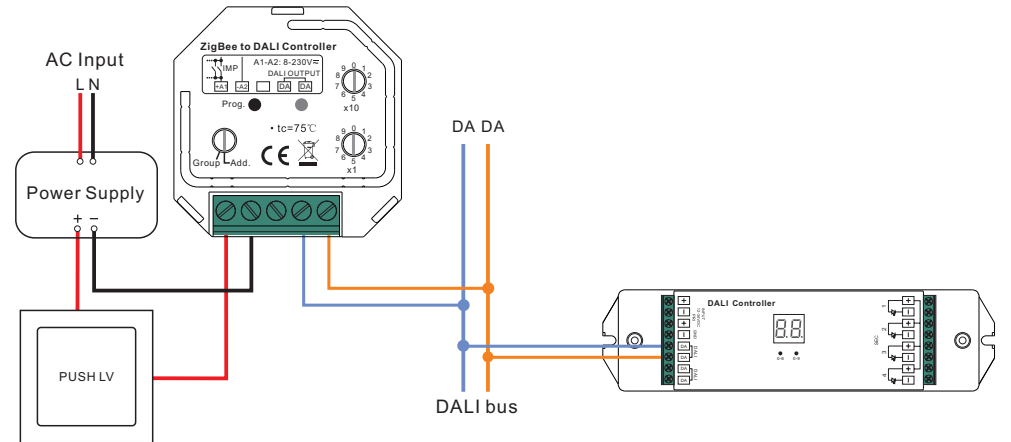
(1)With ZigBee remote



(2)With Push



(3)With Push LV



### Product Dimension

