TD1-4S, TD2-4S, TD3-4S, TD4-4S, TD5-4S

Wall Mounted Touch Panel

DALI

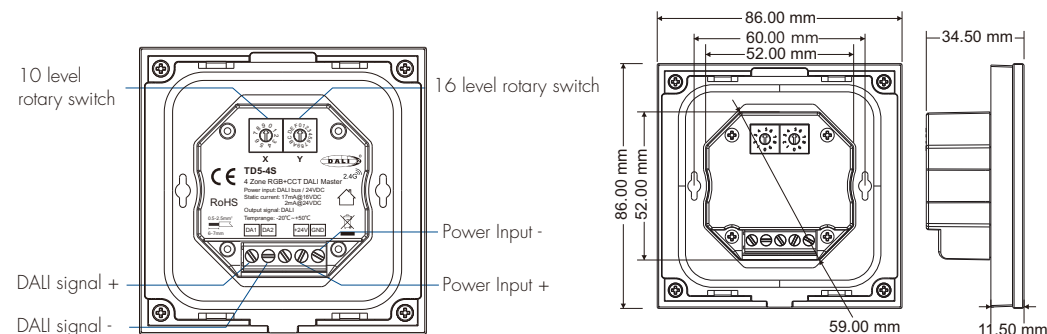| TD1-4S	TD2-4S	TD3-4S	TD4-4S	TD5-4S
Single color	Dual color	RGB	RGBW	RGB+CCT

CE RoHS DALI2 ®

Features

- Touch panel 4 zone 1-5 color DALI master.
- 4 DALI address, support DT6 dimming, DT8-TC color temperature, DT8-RGB or DT8-RGBW.
- DALI-2 certified, in accordance with DALI standard protocol IEC 62386, and in compliance with DALI products from other international incorporation.
- Powered by DALI bus or 24VDC.
- Enable to set DALI address by encoding switch, support unicast, group and broadcast mode, also support slave DALI address assignment.
- Match with RF 2.4G four zone remote control optional.
- Ultra sensitive high strength glass touch panel with touch color slide.
- Smooth and accurate color adjustment by touching the color slide.
- 3 scenes memory.
- Touch keys with LED indicator.
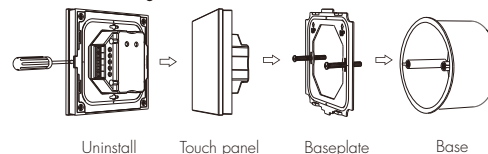- White & Black glass panel available.

Technical Parameters

Input and Output

Power supply	DALI bus/24VDC
Static current	17mA@16VDC, 2mA@24VDC
Output signal	DALI

Environment

Operation temperature	Ta: -20℃ ~ +50℃
Case temperature (Max.)	Tc: +65℃
IP rating	IP20

Dimming data

Input signal	Touch key + RF 2.4GHz
RF Control distance	10m(Barrier-free space)
Dimming level	256 levels
Dimming range	0-100%

Package

Size	L112 x W112 x H50mm
Gross weight	0.230kg

Safety and EMC

EMC standard	EN IEC 55015/ EN IEC 61547 ETSI EN 301 489-1/-3
Safety standard	EN 61347-1/-2
Certification	CE RoHs DALI-2

Warranty

Warranty	5 years

Mechanical Structures

10 level rotary switch
16 level rotary switch
Power Input -
Power Input +
DALI signal +
DALI signal -

86.00 mm
60.00 mm
52.00 mm
34.50 mm
86.00 mm
52.00 mm
59.00 mm
11.50 mm

Panel installation diagram:

Uninstall Touch panel Baseplate Base

Typical base as below:

European style 86 size
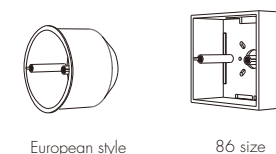
Wiring Diagram

1. Powered by DALI bus

DALI Bus Power Supply

DALI LED Dimmer DALI LED Dimmer DALI LED Dimmer DALI LED Dimmer •••

LED light LED light LED light LED light

2. Powered by 24VDC

AC100-240V

Power Supply 24VDC Constant Voltage

DALI Bus Power Supply

DALI LED Dimmer
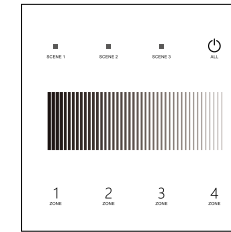
LED light   LED light   LED light   LED light
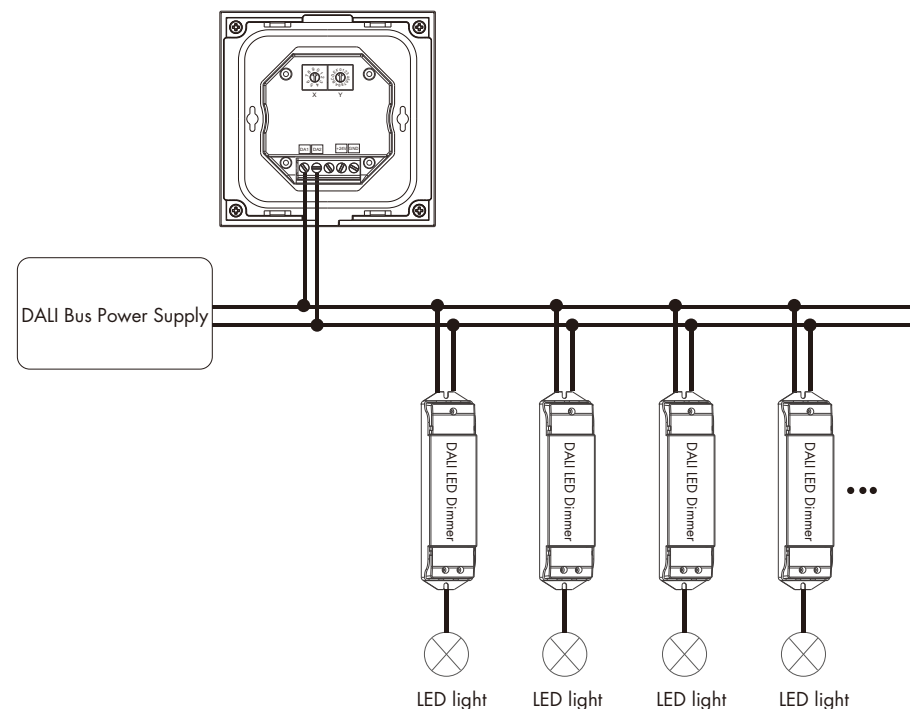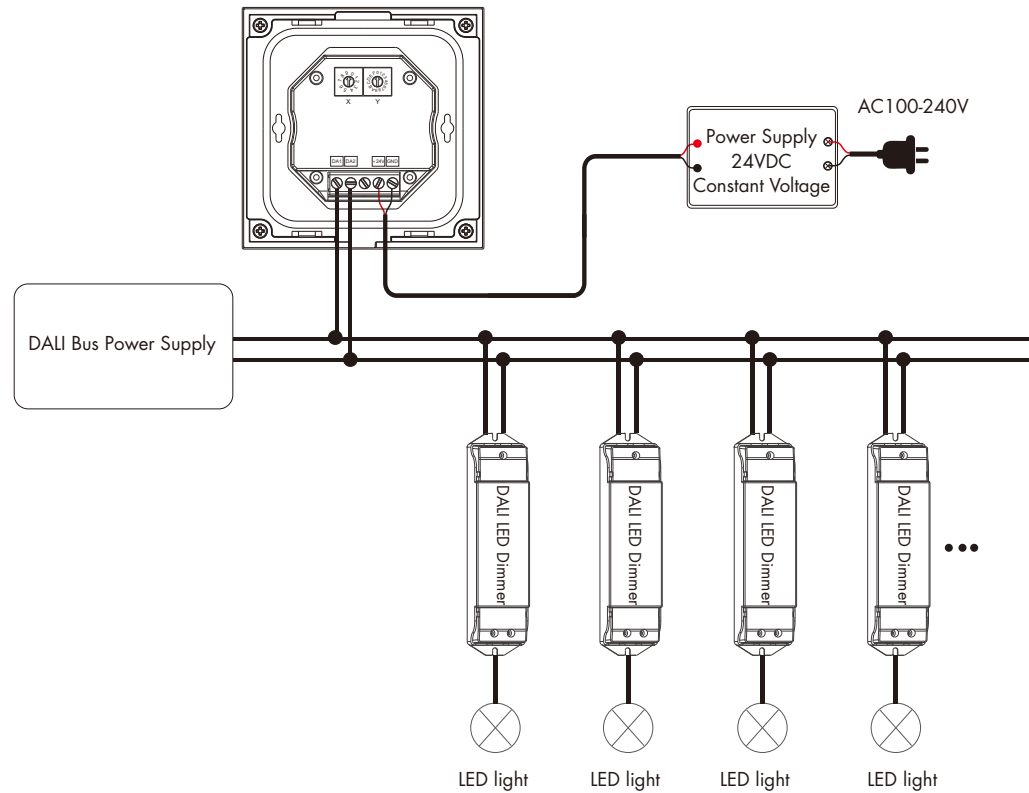
⚠ Note:

1. This product does not have a built-in DALI bus power supply and needs to be used with a DALI bus power supply.
2. It is recommended to use a 24VDC power supply for the touch panel DALI master to reduce the load on the DALI bus power supply.
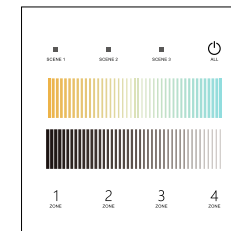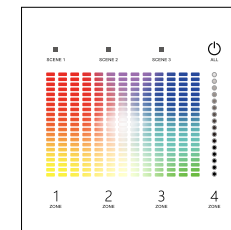
Key Function

● TD1-4S   4 zone single color panel

ALL —— Turn on/off all zone light.

—— Short press recall the scene,
long press 5s save current brightness into scene 1/2/3.

—— Brightness slide.

—— Short press turn on zone light and select zone simultaneously,
long press 2s turn off zone light.
Short press multiple zone key fastly,
will select multiple zone synchronously.
4 zone control seperately or synchronously.
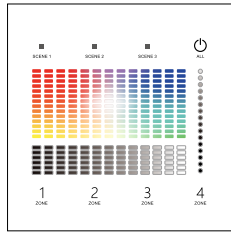
● TD2-4S   4 zone dual color panel

ALL —— Turn on/off all zone light.

—— Short press recall the scene,
long press 5s save current brightness into scene 1/2/3.
Color temperature slide.

—— Brightness slide.

—— Short press turn on zone light and select zone simultaneously,
long press 2s turn off zone light.
Short press multiple zone key fastly,
will select multiple zone synchronously.
4 zone control seperately or synchronously.
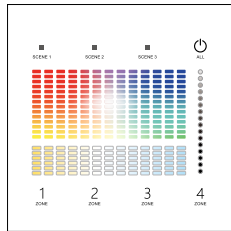
● TD3-4S   4 zone RGB panel

ALL —— Turn on/off all zone light.

—— Short press recall the scene,
long press 5s save current brightness into scene 1/2/3.

—— Color slide.

—— Brightness slide.

—— Short press turn on zone light and select zone simultaneously,
long press 2s turn off zone light.
Short press multiple zone key fastly,
will select multiple zone synchronously.
4 zone control seperately or synchronously.

● TD4-4S   4 zone RGBW panel

⏻ —— Turn on/off all zone light.
ALL

—— Short press recall the scene,
long press 5s save current brightness into scene 1/2/3.

—— Color slide.

—— W channel brightness slide.

—— Brightness slide.

1 2 3 4 —— Short press turn on zone light and select zone simultaneously,
ZONE ZONE ZONE ZONE   long press 2s turn off zone light.
Short press multiple zone key fastly,
will select multiple zone synchronously.
4 zone control seperately or synchronously.

● TD5-4S   4 zone RGB+CCT panel

⏻ —— Turn on/off all zone light.
ALL

—— Short press recall the scene,
long press 5s save current color into scene 1/2/3.

—— Color slide.

—— Color temperature slide.

—— Brightness slide.

1 2 3 4 —— Short press turn on zone light and select zone simultaneously,
ZONE ZONE ZONE ZONE   long press 2s turn off zone light.
Short press multiple zone key fastly,
will select multiple zone synchronously.
4 zone control seperately or synchronously.

Scene locking:
● Scene keys can be set to locked state, cancel long press for 5 seconds to save the scene function (default scene is not locked).
● Short press the panel on/off key, turn on the light first, then turn off the light,
  immediately long press the panel on/off key for 5 seconds,
  then immediately long press any one scene key for 5 seconds to set all scene keys to locked state.
● Short press the panel on/off key, turn on the light first, then turn off the light,
  immediately long press the panel on/off key for 5 seconds,
  then immediately long press any one scene key for 10 seconds to restore all scene keys to unlocked state.

Touch Panel DALI Master Match RF Remote

Touch panel DALI master can also match with RF 2.4G four zone remote (Optional).
End user can choose the suitable match/delete ways. Two options are offered for selection:

| Use On/Off key	Use Power Restart
Match: Turn on light, turn off, immediately press the On/Off key of the panel for 5s, then press any zone key of the RF remote within 5s. The LED indicator fast flash 3 times means match is successful.	Match: Switch off the power of the panel, then switch on power, repeat again. Immediately short press zone key 3 times on the remote. The LED indicator fast flash 3 times means match is successful.
Delete: Turn on light, turn off, immediately press the On/Off key of the panel for 10s to delete all match, The LED indicator fast flash 6 times means all matched remotes were deleted.	Delete: Switch off the power of the panel, then switch on power, repeat again. Immediately short press zone key 5 times on the remote. The LED indicator fast flash 6 times means all matched remotes were deleted.

DALI Address Setting

The host DALI address is set via two coding switches on the back of the panel, supporting unicast, group and broadcast modes.
Address value = X * 10 + Y.   For example: X = 5, Y = 4, Address value = 5 x 10 + 4 = 54.

Unicast mode
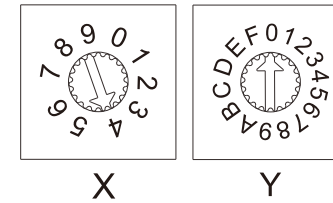
X is 0-6, Y is 0-9.
Address value 0-63 correspond to DALI unicast address 00-63.
For example:
Address value = 40, the unicast values of zone 1,2,3,4 are 40, 41, 42, 43.
Address value = 62, the unicast values of zone 1,2,3,4 are 62, 63, 0, 1.

Group mode
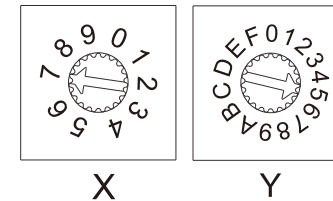
X is 7, Y is 0-F.
Address value 70-7F correspond to DALI group address 0-15.
For example:
Address value = 75, the group address value of zone 1,2,3,4 are 5, 6, 7, 8.
Address value = 7E, the group address value of zone 1,2,3,4 are 14, 15, 0, 1.

Broadcast mode
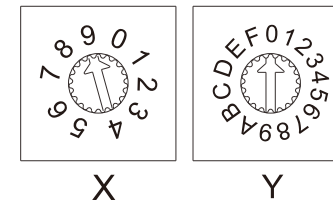
X is 9, Y is 0-F.
Address value 90 - 9F correspond to broadcast address.

Slave DALI Address Assignment

● Enable or disable slave DALI address settings

The factory-default slave DALI address setting function has been enabled.

Click the ⏻ key to turn off the light, then long press 2 and 4 key for 5s to turn off the slave DALI address setting function,
the LED indicator will flash 3 times.

Click the ⏻ key to turn off the light, then long press 2 and 4 key for 10s to turn on the slave DALI address setting function,
the LED indicator will flash 6 times.

● The slave's DALI address or group address assignment

When the host DALI address is set to unicast or multicast mode,
you can set the slave's DALI address by setting all DALI subdevices on the bus to the same DALI address by doing the following.
Note that DALI addresses cannot be assigned in broadcast mode.

(Figure 1)   (Figure 2)   (Figure 3)   (Figure 4)   (Figure 5)
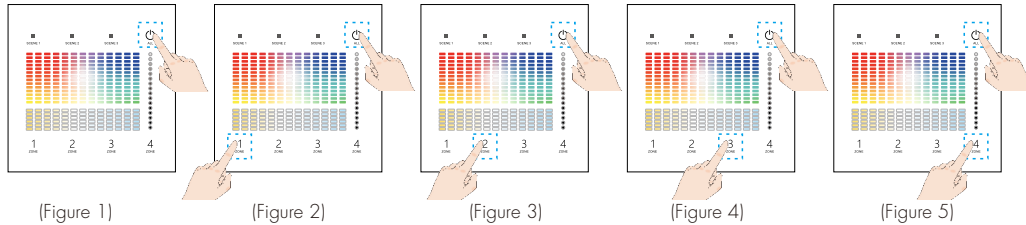
Step 1: Verify that the encoding switches are set correctly, for example:
      Under unicast mode, set the 4 zone's DALI address 01-04 (X=0, Y=1)
      Under multicast mode, set the 4 zone's group address 5-8 (X=7, Y=5).
Step 2: Click the ⏻ key to turn off the light (shown in Figure 1).
Step 3: Connect only the DALI subdevices ready to be set to zone 1 on the DALI bus and disconnect the other subdevices.
      Simultaneously press and hold the ⏻ and 1 key for 5s (shown in Figure 2), the indicator lights flash rapidly.
      When the indicator lights flash slowly 3 times indicates that the DALI address or group address
      of zone 1 has been successfully assigned.
Step 4: Connect only the DALI subdevices ready to be set to zone 2 on the DALI bus and disconnect the other subdevices.
      Simultaneously press and hold the ⏻ and 2 key for 5s (shown in Figure 3) ,the indicator lights flash rapidly.
      When the indicator lights flash slowly 3 times indicates that the DALI address or group address
      of zone 2 has been successfully assigned.
Step 5: Connect only the DALI subdevices ready to be set to zone 3 on the DALI bus and disconnect the other subdevices.
      Simultaneously press and hold the ⏻ and 3 key for 5s (shown in Figure 4), the indicator lights flash rapidly.
      When the indicator lights flash slowly 3 times indicates that the DALI address or group address
   of zone 3 has been successfully assigned.
Step 6: Connect only the DALI subdevices ready to be set to zone 4 on the DALI bus and disconnect the other subdevices.
      Simultaneously press and hold the ⏻ and 4 key for 5s (shown in Figure 5), the indicator lights flash rapidly.
      When the indicator lights flash slowly 3 times indicates that the DALI address or group address
      of zone 4 has been successfully assigned.

● Clear the slave's DALI address and group address

When the host DALI address is set to unicast, group, or broadcast mode,
both slave DALI address and group address clear operations can be performed.
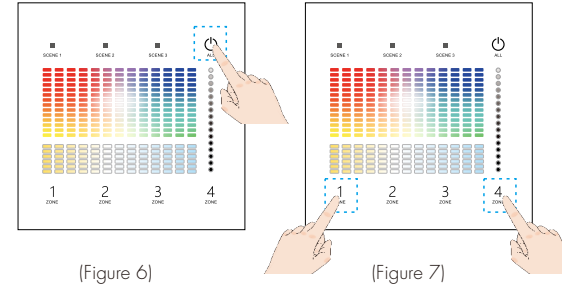
(Figure 6)   (Figure 7)

Step 1: Click the ⏻ key to turn off the light (shown in Figure 6).
Step 2: Simultaneously press and hold the 1 and 4 key for 5s (shown in Figure 7), the indicator lights flash rapidly.
      When the indicator lights flash slowly 3 times indicates that the DALI address and group address of all DALI sub-devices
      on the bus have been cleared.