

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

DT6/DT8 DALI Touch Panel



TD1-S
Single color

TD2-S
Dual color

TD3-S
RGB

TD4-S
RGBW

TD5-S
RGB+CCT

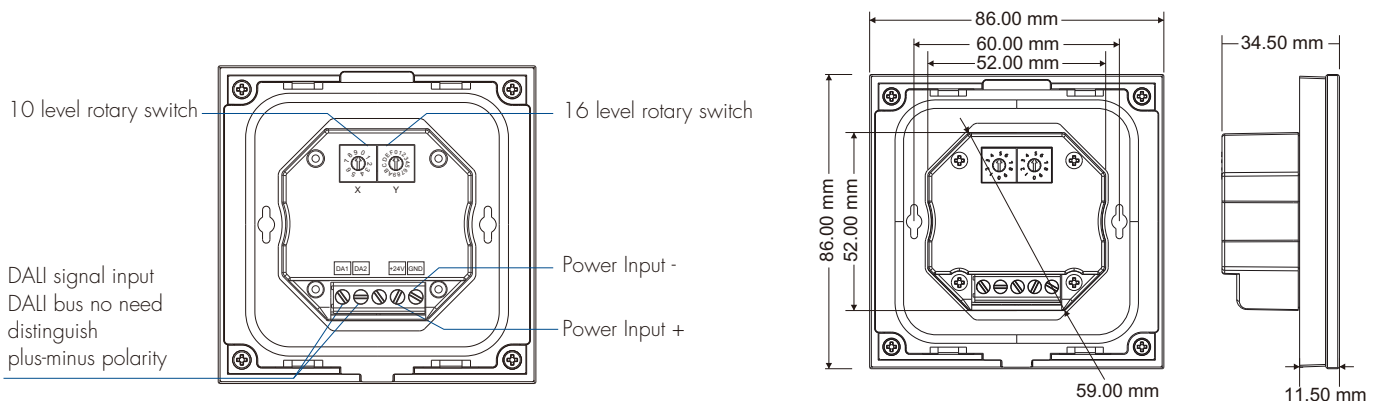
TD1/2/3/4/5-S is a series of 1-5 colour DALI touch master panels for controlling lighting control systems and DALI DT6/DT8 devices for use in a wide range of schools, retail, hospitals and offices.

- 1 DALI address, support DT6 dimming, DT8-TC color temperature, DT8-RGB or DT8-RGBW.
- Powered by DALI bus or 24VDC.
- DALI-2 certified, in accordance with DALI standard protocol IEC 62386-101, 102, 208 and in compliance with DALI products from other international incorporation.
- Encoding switch select addresses, support 4 control modes: scene, grouping, unicast and broadcast.
- Match with RF 2.4G single zone or multiple 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.
- 4 scenes memory.
- Touch keys with LED indicator.
- White & Black glass panel available.

Technical Parameters

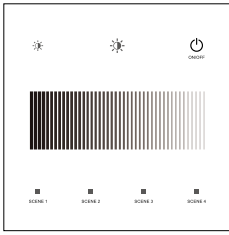
| Input and Output | | Dimming data | | Safety and EMC | |
|-------------------------|-----------------------|---------------------|-------------------------|----------------------|---|
| Power supply | DALI bus/24VDC | Input signal | Touch key + RF 2.4GHz | EMC standard (EMC) | ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4 |
| Static current | 17mA@16VDC, 2mA@24VDC | RF Control distance | 10m(Barrier-free space) | Safety standard | EN 62368-1:2020+A11:2020 |
| Output signal | DALI | Dimming level | 256 levels | Radio Equipment(RED) | ETSI EN 300 328 V2.2.2 |
| Environment | | Dimming range | 0 - 100% | Certification | CE,EMC,RED,DALI 2 |
| Operation temperature | Ta: -20°C ~ +50°C | Package | | Warranty | |
| Case temperature (Max.) | Tc: +65°C | Size | L112 x W112 x H50mm | Warranty | 5 years |
| IP rating | IP20 | Gross weight | 0.230kg | | |

Mechanical Structures



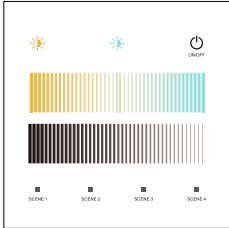
Key function

● TD1-S Single color panel



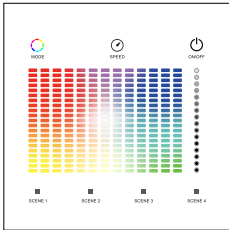
- Turn on/off light.
- Increase brightness, 10 level.
- Decrease brightness, 10 level.
- Brightness slide.
- Short press recall the scene, long press 5s save current brightness into scene 1/2/3/4.

● TD2-S Dual color panel



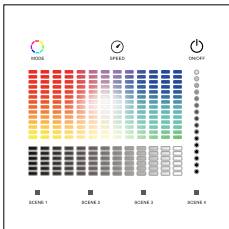
- Turn on/off light.
- Increase color temperature, 10 levels.
- Decrease color temperature, 10 levels.
- Color temperature slide.
- Brightness slide.
- Short press recall the scene, long press 5s save current color into scene 1/2/3/4.

● TD3-S RGB panel



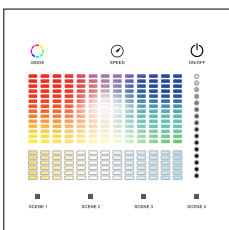
- Turn on/off light.
- Short press play 10 built-in dynamic mode, long press 2s run mode-cycle.
- Adjust dynamic mode speed, 10 levels.
- Color slide.
- Brightness slide.
- Short press recall the scene, long press 5s save current color into scene 1/2/3/4.

● TD4-S RGBW panel



- Turn on/off light.
- Short press play 10 built-in dynamic mode, long press 2s run mode-cycle.
- Adjust dynamic mode speed, 10 levels.
- Color slide.
- W channel brightness slide.
- Brightness slide.
- Short press recall the scene, long press 5s save current color into scene 1/2/3/4.

● TD5-S RGB+CCT panel



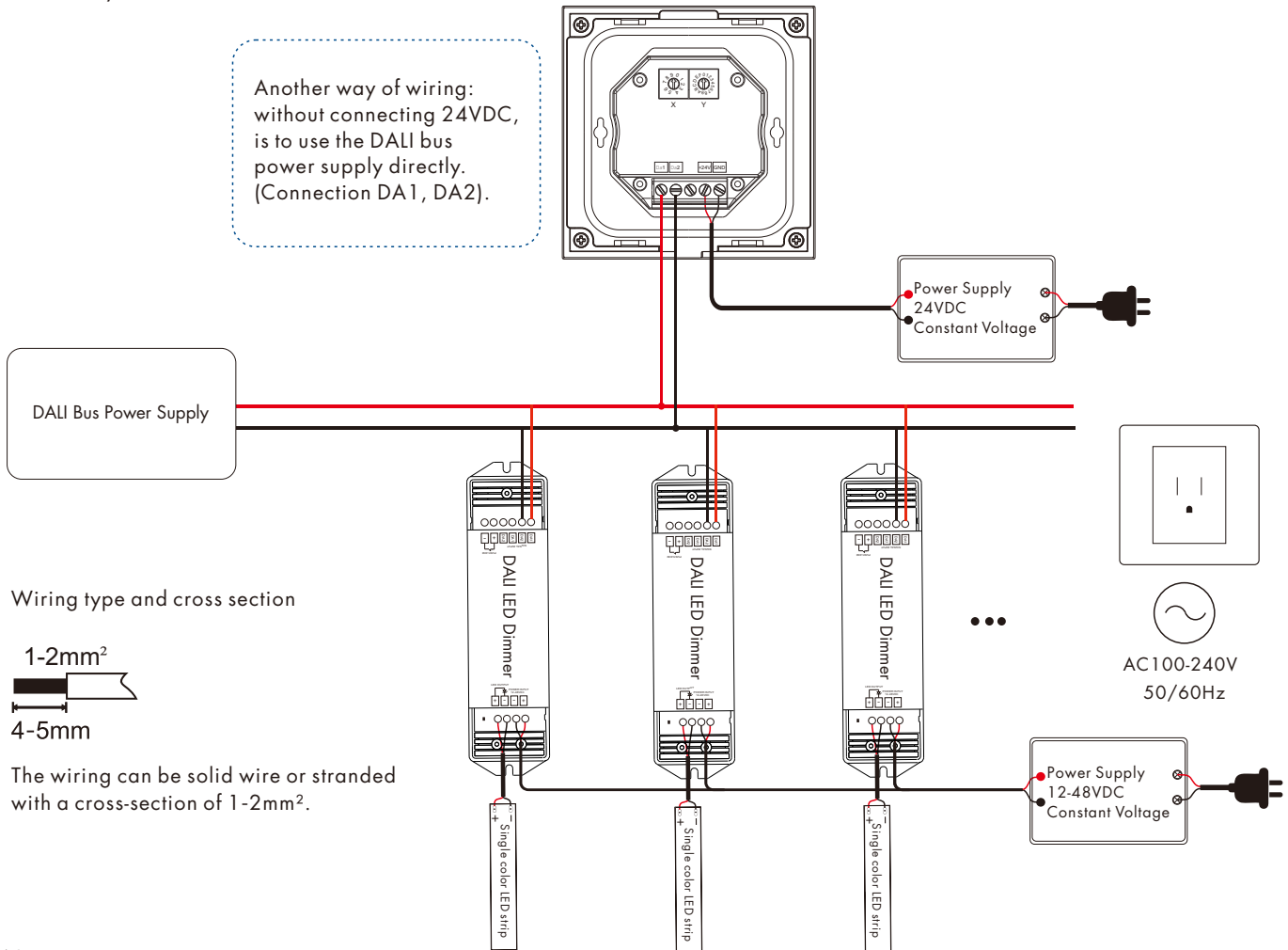
- Turn on/off light.
- Short press play 10 built-in dynamic mode, long press 2s run mode-cycle.
- Adjust dynamic mode speed, 10 levels.
- Color slide.
- Color temperature slide.
- Brightness slide.
- Short press recall the scene, long press 5s save current color into scene 1/2/3/4.

Scene locking:

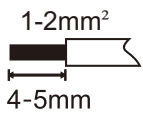
- Scene keys can be set to locked state, cancel long press for 5 seconds to save the scene function (default scene is not locked).
- Short press the panel on/off key, turn on the light first, then turn off the light, immediately long press the panel on/off key for 5 seconds, then immediately long press 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.

Wiring Diagram

Powered by 24VDC



Wiring type and cross section

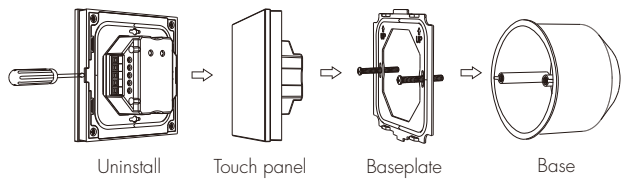


The wiring can be solid wire or stranded with a cross-section of 1-2mm².

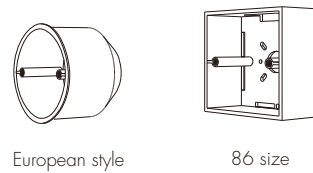
Note:

1. 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.
2. The max. cable length of the DALI control cable must not exceed 300m, or a voltage drop of 2V must not be exceeded.

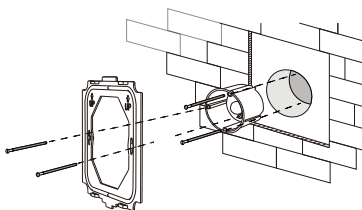
Installation diagram:



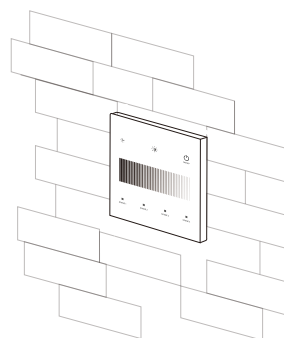
Typical base as below:



Mounting method



1. To put the back cover on the electrical box and fix it with the screw.



2. Installation complete display

Safety & Warnings

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

Touch Panel DALI master match RF remote

Touch panel DALI master can also match with RF 2.4G remote (Optional).

End user can choose the suitable match/delete ways. Two options are offered for selection:

Use On/Off key

Match:

Turn on light, turn off, immediately press the On/Off key of the panel for 5s, then press any On/Off key of the RF remote within 5s.

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.

Use Power Restart

Match:

Switch off the power of the panel, then switch on power, repeat again.

Immediately short press On/Off key 3 times on the remote.

The LED indicator fast flash 3 times means match is successful.

Delete:

Switch off the power of the panel, then switch on power, repeat again.

Immediately short press On/Off key 5 times on the remote.

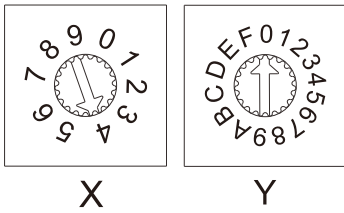
The LED indicator fast flash 6 times means all matched remotes were deleted.

DALI address setting

Address value = X * 10 + Y.

For example: X = 5, Y = 4, Address value = 5 x 10 + 4 = 54.

Unicast mode



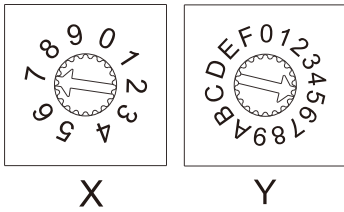
X is 0-6, Y is 0-9.

Address value 0-63 correspond to DALI unicast address 00-63.

For example:

Address value = 40, the unicast address value is 40.

Group mode



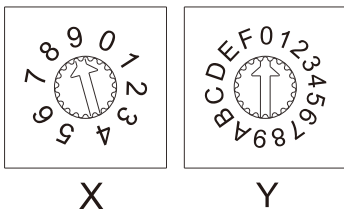
X is 7, Y is 0-F.

Address value 70-7F correspond to DALI group address 0-15.

For example:

Address value = 5, the group address value is 5.

Broadcast mode



X is 9, Y is 0-F.

Address value 90 - 9F correspond to broadcast address.

RGB/RGBW dynamic mode list (only for TD3-S / TD4-S)

| No. | Name | No. | Name |
|-----|---------------------------|-----|-----------------------|
| 1 | RGB jump | 6 | RGB fade in and out |
| 2 | RGB smooth | 7 | Red fade in and out |
| 3 | 6 color jump | 8 | Green fade in and out |
| 4 | 6 color smooth | 9 | Blue fade in and out |
| 5 | Yellow cyan purple smooth | 10 | White fade in and out |

RGB+CCT dynamic mode list (only for TD5-S)

| No. | Name | No. | Name |
|-----|--------------------------|-----|-----------------------|
| 1 | RGB jump | 6 | RGB fade in and out |
| 2 | RGB smooth | 7 | Red fade in and out |
| 3 | 6 color jump | 8 | Green fade in and out |
| 4 | 6 color smooth | 9 | Blue fade in and out |
| 5 | Color temperature smooth | 10 | White fade in and out |