

# RF DIM/CCT/RGB/RGBW

## T1-K, T2-K, T3-K

### Wall Mounted Rotary Panel



T1-K



T2-K



T3-K

CE RoHS

### Features

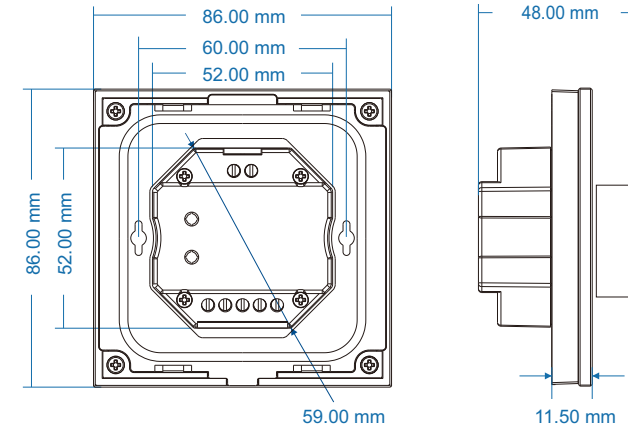
- Rotary panel single color, dual color or RGB PWM constant voltage controller, can also be used as one zone RF remote.
- When work as controller, compatibility with RF 2.4G single zone or multiple zone remote control.
- When used as RF remote, can remote control multiple RF 2.4G LED controllers.
- Rotate knob to change RGB color, color temperature or brightness.
- 256 levels 0-100% dimming smoothly without any flash.
- PWM frequency 2KHz or 8KHz selectable.
- Push/Rotate with LED indicator.
- Over-heat / Overload / Short circuit protection, recover automatically.
- White & Black glass panel available.

### Technical Parameters

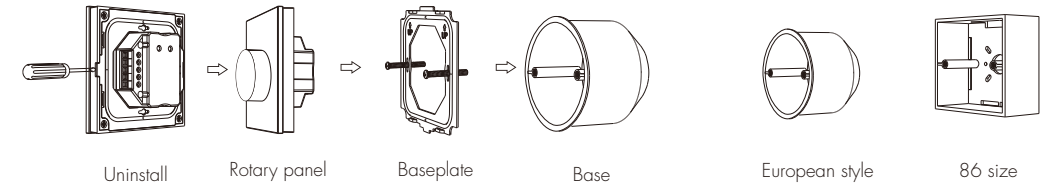
| Input and Output |                  |                  |                  |
|------------------|------------------|------------------|------------------|
| Model No.        | T1-K             | T2-K             | T3-K             |
| Input voltage    | 12-48VDC         | 12-48VDC         | 12-48VDC         |
| Input current    | 12.5A            | 10.5A            | 12.5A            |
| Output voltage   | 3 x (12-48)VDC   | 2 x (12-48)VDC   | 3 x (12-48)VDC   |
| Output current   | 3CH, 4A/CH       | 2CH, 5A/CH       | 3CH, 4A/CH       |
| Output power     | 3 x (48-196)W    | 2 x (60-240)W    | 3 x (48-196)W    |
| Output type      | Constant voltage | Constant voltage | Constant voltage |
| PWM frequency    | 2K/8KHz          | 2K/8KHz          | 2K/8KHz          |
| Light type       | Single color     | Dual color       | RGB              |
|                  |                  |                  |                  |

| Safety and EMC          |                                                       |
|-------------------------|-------------------------------------------------------|
| EMC standard            | EN IEC 55015/<br>EN IEC 61547<br>ETSI EN 301 489-1/-3 |
| Safety standard         | EN 61347-1/-2                                         |
| Radio equipment         | ETSI EN 300 440                                       |
| Environment             |                                                       |
| Operation temperature   | Ta: -30°C ~ +55°C                                     |
| Case temperature (Max.) | Tc: +85°C                                             |
| Package                 |                                                       |
| Size                    | L112 x W112 x H60mm                                   |
| Gross weight            | 0.220kg                                               |

### Mechanical Structures and Installations



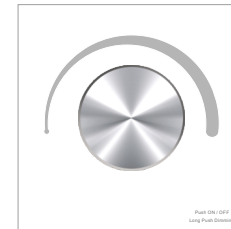
Installation diagram:



Typical base as below:

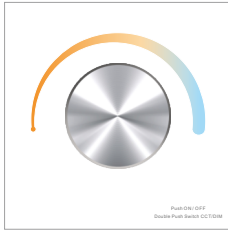
### Knob Function

- T1-K Single color dimmer



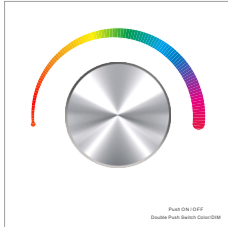
- **Push:** Turn on or off light.  
After turn on light:
- **Rotate:** Rotate knob to adjust brightness (2.5 turns, 50 levels).
- **Long push(1-6s):** Continuous 256 levels brightness adjustment.

## • T2-K Dual color temperature



- **Push:** Turn on or off light.
- After turn on light:
  - **Rotate:** Rotate knob to change color temperature or brightness (2.5 turns, 50 levels).
  - **Push twice:** Switch between color temperature or brightness adjustment.
  - **Long push(1-6s):** Continuous 256 levels brightness adjustment.

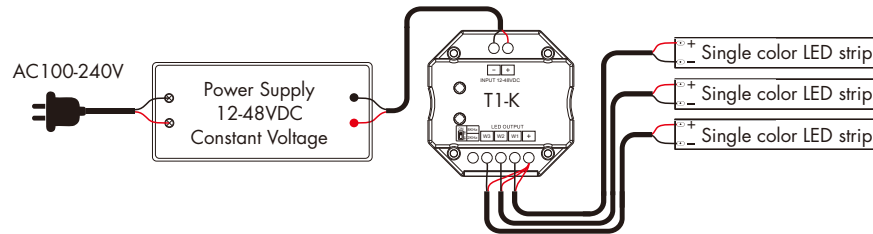
## • T3-K RGB



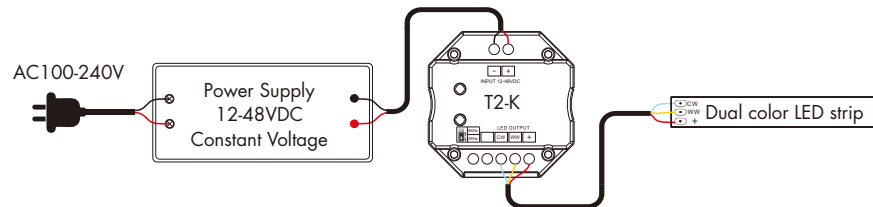
- **Push:** Turn on or off light.
- After turn on light:
  - **Rotate:** Rotate knob to change RGB color (3 turns, 60 colors) or brightness (2.5 turns, 50 levels).
  - **Push twice:** Switch between RGB color or brightness adjustment.
  - **Long push(1-6s):** Continuous 256 levels saturation or brightness adjustment.

## Wiring Diagram

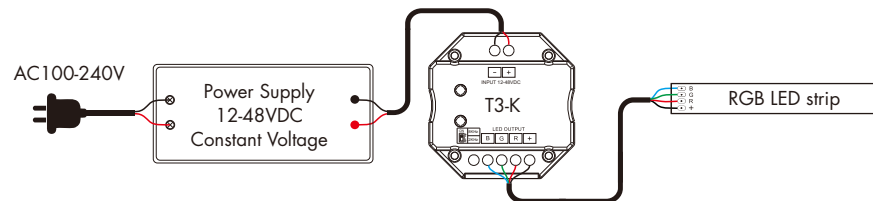
### • T1-K



### • T2-K



### • T3-K



## Match Remote Control (two match ways)

The rotary panel controller can also match with the RF remote (optional). End user can choose the suitable match/delete ways. Two options are offered for selection:

### Use Knob

Match:

Turn on light, turn off, immediately push the knob for 5s, then press on/off key (single zone remote) or zone key (multiple zone remote) of the RF remote with in 5s. The LED indicator fast flash 3 times means match is successful.

Delete:

Turn on light, turn off, immediately push the knob for 10s, delete all matched RF remote. The LED indicator fast flash 6 times means all matched remotes were deleted.

### Use Power Restart

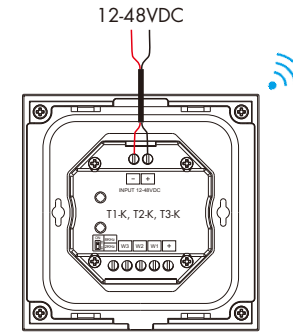
Match:

Switch off the power, then switch on power, repeat again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

Delete:

Switch off the power, then switch on power, repeat again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

## Wiring Diagram for Rotary Panel Work as RF Remote



When the rotary panel controller work as RF remote, it need match with other RF 2.4G LED controllers. End user can choose the suitable match/delete ways. Two options are offered for selection:

### Use the controller's Match key

Match:

Short press match key, immediately short press the knob of the rotary panel. The LED indicator fast flash a few times means match is successful.

Delete:

Press and hold match key for 5s to delete match, The LED indicator fast flash a few times means match was deleted.

### Use Power Restart

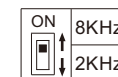
Match:

Switch off the power of the receiver, then switch on power, repeat again. immediately short press the knob 3 times on the rotary panel. The light blinks 3 times means match is successful.

Delete:

Switch off the power of the receiver, then switch on power, repeat again. immediately short press the knob 5 times on the rotary panel. The light blinks 5 times means match was deleted.

## PWM Frequency Setting



We can select 2KHz or 8KHz PWM frequency by one DIP switch. Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).