

# F3-M(WT)+RC3

## WiFi & Infrared remote RGB LED Dimmer

- WiFi & infrared remote control 3 channels constant voltage RGB LED dimmer.
- DC power socket input, 1.5A per channel, output connects with 5 meters RGB LED strip.
- Tuya Smart APP cloud control, support on/off, RGB color, brightness adjust, delay turn on/off light, timer run, scene edit and music play function.
- Voice control, support for Amazon Alexa, Google Assistant, Tmall Genie and Xiaodu voice assistant.
- Color and dynamic mode setting, brightness and speed adjustment by IR remote or SET key.
- 4096 levels dimming smoothly without any flash.
- Built in 10 dynamic modes, include jump or gradual change style.



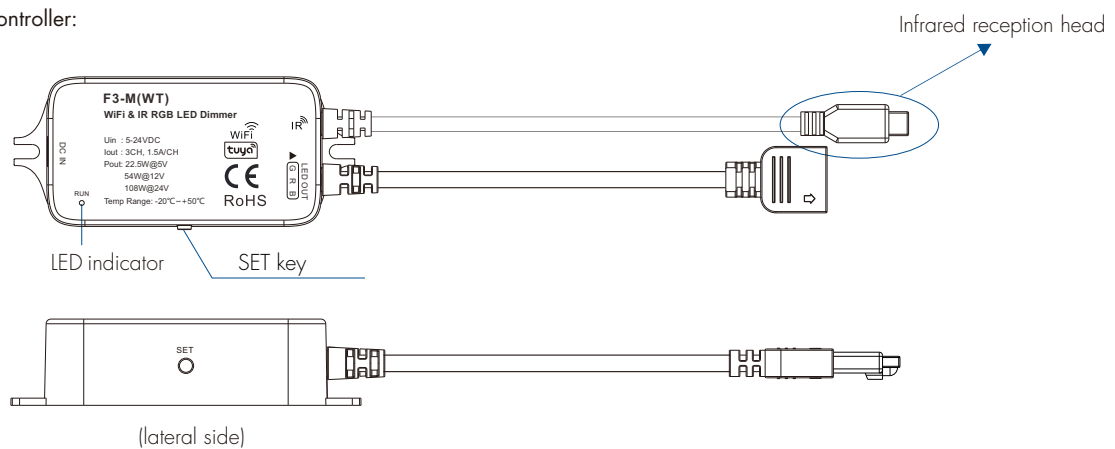
CE RoHS 

### Technical Parameters

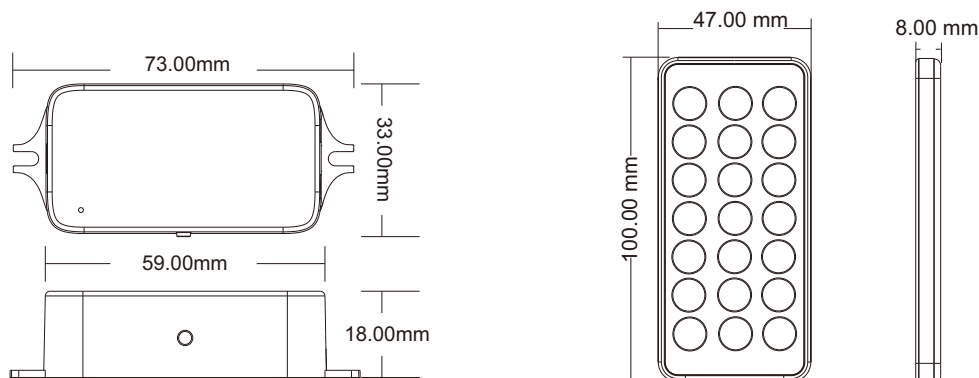
Input and Output		Dimming data		Safety and EMC	
Input voltage	5-24VDC	Input signal	WiFi + IR + key	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Output voltage	5-24VDC	Control distance	10m(Barrier-free space)	Safety standard	EN 61348-1:2015+A1:2021 EN 61348-2-13:2014+A1:2017
Output current	3CH, 1.5A/CH	Dimming gray scale	4096 level	Certification	CE, EMC
Output power	22.5W@5V 54W@12V 108W@24V	Dimming range	10-100%		
		Dimming curve	Logarithmic		
		PWM Frequency	2000Hz (default)		
Environment		Warranty		Package	
Operation temperature	Ta: -20°C ~ +50°C	Warranty	5 years	Size	L1 10x W57x H32mm
Case temperature (Max.)	Tc: +85°C	Protection	Over heat	Gross weight	0.090kg

### Mechanical Structures and Installations

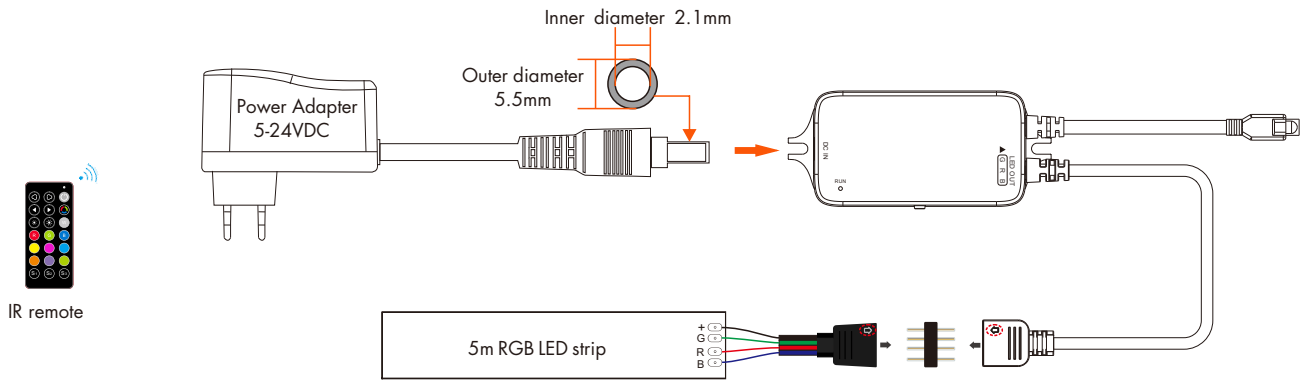
Controller:



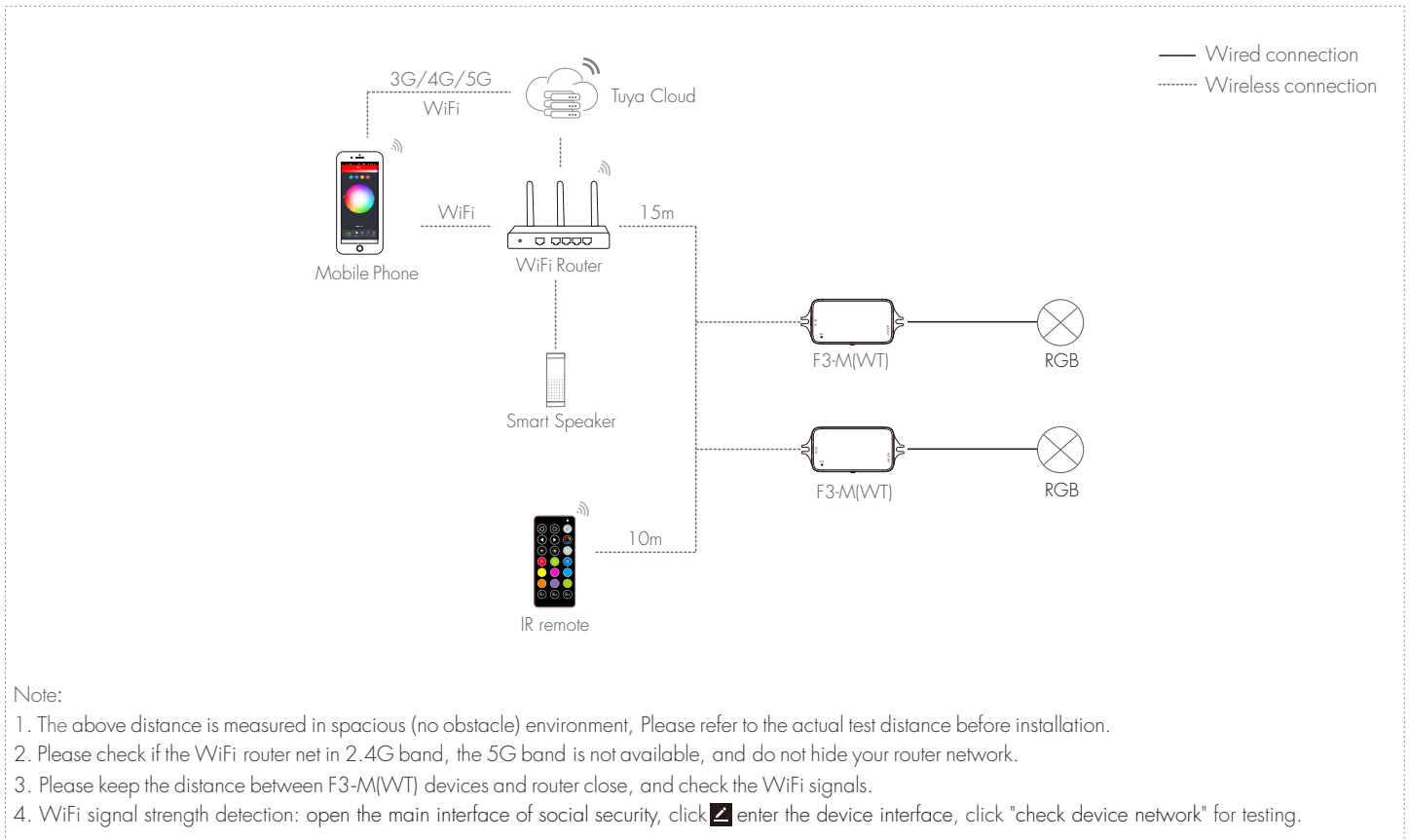
IR Remote:



## Wiring Diagram



## System Wiring



## SET Key Function of Dimmer

**Short press:** Sequentially switch 8 kind of static colors (red - orange - yellow - green - cyan - blue - purple - white) and 10 dynamic modes.

**Long press:** For static mode, long press 1-6s to adjust brightness, with every other long press, the light level goes to the opposite direction.

For dynamic mode, long press 2s to adjust the dynamic mode speed, 10 levels.

## Tuya Smart APP Network Connection

Please download the corresponding Tuya Smart/Smart life APP according to your region.

Three methods to clear the previous network connection, enter WiFi Smart config mode, and the output LED will flash 10 times.

1. Long press the SET key for 12s.
2. Double click the SET key within 10s of the dimmer powering up.
3. Dimmer power on and off for 5 consecutive times.

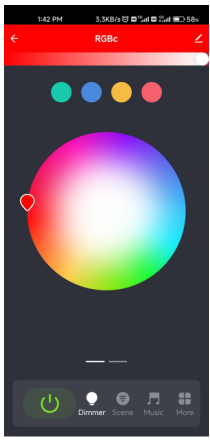
In Tuya Smart APP, you can find RGBc device.  
If Tuya Smart APP network connection succeed, the output LED will stop flash.



Smart life APP

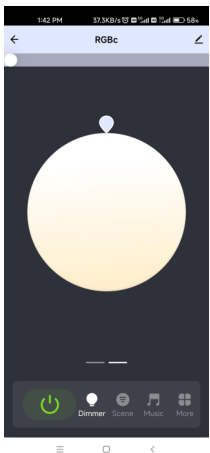


Tuya Smart APP



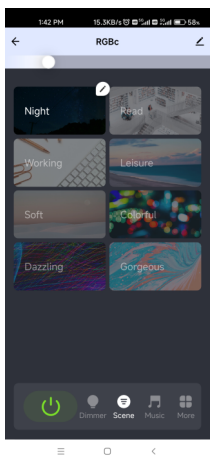
### Colour interface

Touch color circle to adjust static RGB color.  
Touch brightness slide to adjust color brightness.



### White interface

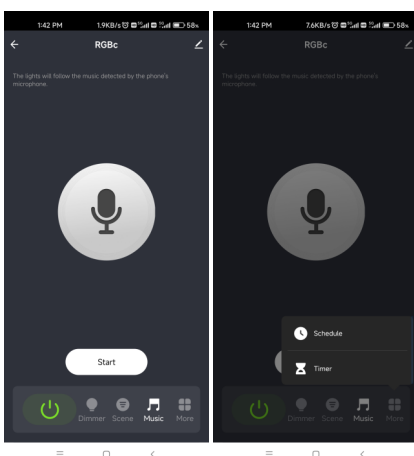
Touch brightness slide, get RGB mixed white firstly, then to adjust white brightness.



### Scene interface

The 1-4 scene is static color.  
the inner color of these scene can be editable.

The 5-8 scene is dynamic mode,  
such as green fade in and fade out, RGB jump, 6 color jump, 6 color smooth.



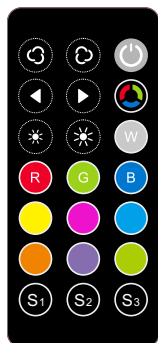
### Music, Timer, Schedule

The music play can use smart phone music player or micro-phone as music signal input.

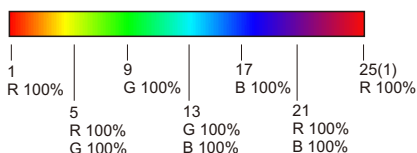
The Schedule key can add multiple timers to turn on or turn off light according to different time periods.

The Timer key can turn on or turn off light in the next 24 hours.

## Key Function of IR Remote Controller



- On/Off** : Turn on/off light.
- Mode+** : Short press run the next dynamic mode, long press 2s run mode cycle.
- Mode -** : Short press run the previous dynamic mode, long press 2s run the first mode.
- Color** : Short press get 24 kinds static RGB color, long press for continuous static color adjustment.



- Speed +/-**: For static mode, adjust the color saturation. Short press 11 levels; Long Press 1-6 seconds for 256 consecutive levels of adjustment. For dynamic mode, increase speed, short press 10 levels, long press 2s get the fastest/slowest speed.
- W +/-**: Short press turn on/off white (RGB mix); Long press 1-6s adjust saturation continuously, namely change current static RGB color to mixed white slowly.
- Bright +/-** : short press 10 levels; Long press 1-6 seconds for 256 consecutive levels for adjustment.
- R/G/B** : Short press get red, green or blue color directly, long press 1-6s adjust R/G/B brightness continuously to achieve millions of colors.
- Yellow/Purple/Cyan** : Short press get static yellow, purple, cyan color directly.
- Orange/Grape/Grass green**: Short press get static orange, grape, grass green color directly.
- S1/S2/S3** : Short press recall the scene, long press 2s save the current color into the S1/S2/S3.

## Dynamic Mode List

Use the controller's SET button or the IR remote control's Mode +/- keys to switch between 10 dynamic modes:

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

## Dimming Curve

