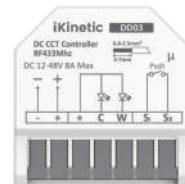


DD03 Series 3 Wire DC CCT Controller

Made in China.



DD03 & DD03-MW& DD03-WF

DESCRIPTION

- 3-wire tunable white LED, CCT adjustable from 2700K to 6500K, up to 8A output.
- Support for RF and Wi-Fi provides high flexibility for LED lighting controls.
- Dimming and CCT tuning can also be controlled via standard push-button switch.
- Screw-free terminal as standard to provide fast installation.
- A 12-48V DC input is ideal for tunable white LED strip, furniture lighting and other low voltage DC LED applications.

FEATURES

1. Encrypted RF transmission, anti-interference ability.
2. 0.1-100% logarithmic dimming curve.
3. Minimum dimming level is adjustable.
4. Power cut memo function available.
5. Built-in overcurrent protection.
6. Smart and RF control works interactively.

SPECIFICATION

RF VERSION	
Model	DD03
Type	DC PWM CCT receiver
Channel	1CH
Input Voltage	12V-48V
Output Voltage	12V-48V
Output Current	Max 8A
Load Power	12V<96W;24V<192W ;36V<288W;48V<384W
Radio frequency	RF433Mhz
DMT	ASK
PWM	4KHz
Dimming Curve	0.1-100% Logarithmic
Memory Capacity	Maximum 10 switches
Wall switch Compatible	Support standard push button switch
Housing Material	UL 94-V0
IP Rating	IP20
Operating Temperature	-20°C -+40°C
Ta/Tc	Ta: 40°C Tc: 85°C
Dimensions	42mm*42mm*16.5mm
Warranty	5 years

SMART VERSION (RF433Mhz+Matter Over WiFi)

Model	DD03-MW
Protocol	2.4Ghz for Matter Over Wi-Fi
Wi-Fi Security Protocol	WEP, WPA/WPA2, WPA/WPA2 PSK (AES), WPA3
Wireless Frequency	2.400-2.480GHz
APP	Homekit, Smarthings, Google home, Tuya Smartlife, Alexa, Yandex

***Note:**

- Smart receivers supports RF function which is based on RF433Mhz.
- Matter is an open protocol that relies on local communication, and works even when the internet is disconnected.
- To enable Matter device operation, a compatible third-party smart speaker corresponding to your chosen app is required. Remote control is supported, excluding Tuya Smartlife.
- Matter devices using the Tuya Smartlife app support local control only and certain functions on Smartlife app may not be fully available or display due to Tuya-Matter compatibility issues.

SMART VERSION (RF433Mhz+Tuya Over WiFi)

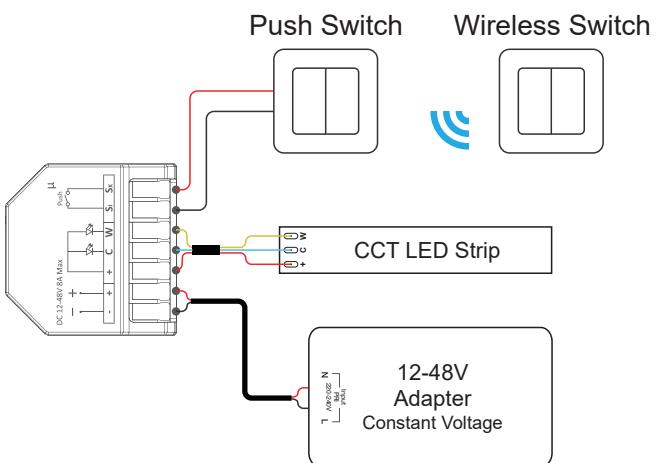
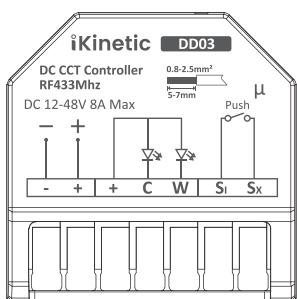
Model	DD03-WF
Protocol	2.4Ghz for Tuya Over Wi-Fi
Wi-Fi Security Protocol	WEP, WPA/WPA2, WPA/WPA2 PSK (AES), WPA3
Wireless Frequency	2.400-2.480GHz
APP	Tuya Smartlife, Google Home, Amazon Alexa

***Note:**

Smart receivers supports RF function which is based on RF433Mhz.

To work with Smart Speaker or Home automation system, please check Tuya official website for further information.

WIRING DIAGRAM



***Note:** One receiver can be configured with up to 10 wireless switches.

DC CCT CONTROLLER APPLICATION

Controller Installation Method

Can be mounted in electrical boxes or on ceiling surfaces.

Application Scenarios

Widely used in smart home ,residential,office ,classrooms, hotel,commercial space,etc.

Suitable for smart lighting control DIY retrofits, wireless switch can be placed at will.

Product Composition

*Transmitter need to be purchased separately

Kinetic Switch

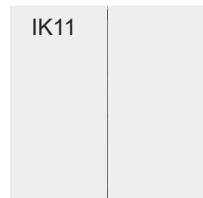


Every Key works independently

On/ OFF: Press Once

Dimming: Press twice to enter dimming cycle,
another press to set brightness

Optional: 1G/2G/3G+Color



Every Key works independently

On/ OFF: Press Once

Dimming: Push Dimming

Optional: 1G/2G/3G+Surface
(Plastic/Glass/Metal)+Color

Battery Switch



Every Key works independently

On/ OFF: Press Once

Dimming: Long press

Optional: 1G/2G/3G+Surface (Plastic/ Polished/ Brushed)+ Color

Battery Remote (TR)



On/ OFF Key: Press Once

Dimming +/- Key: Long press

Optional: 2 key/4 key+1channel/4channel+PC/Glass+Color

Battery Remote (BR)



On/ OFF Key: Press Once

Dimming +/- Key: Long press

Optional: 1channal/4channal



*Note: Refer to the USER MANUAL for application and pairing methods.

TEST DATA

Max.Output Current TR Data

DD01	INPUT VOLTAGE=24(V) ;INPUT CURRENT=8(A); Ta: 35°C; TEST TIME: 2H				
Data Channel	CH01	CH02	CH03	CH04	CH05
Key component	Mos 1	Mos 2	Capacitor	Terminal	Case
Temperature(°C)	70.4	64.0	67.8	61.9	54.8
Temperature Limit(°C)	150	150	105	105	105



Fig. 1:Power Supply



Fig. 2:Multi-channel Temperature recorder

DD01	INPUT VOLTAGE=48(V) ;INPUT CURRENT=8(A); Ta: 33.2°C; TEST TIME: 2H				
Data Channel	CH01	CH02	CH03	CH04	CH05
Key component	Mos 1	Mos 2	Capacitor	Terminal	Case
Temperature(°C)	75.0	75.2	71.0	64	55.4
Temperature Limit(°C)	150	150	105	105	105

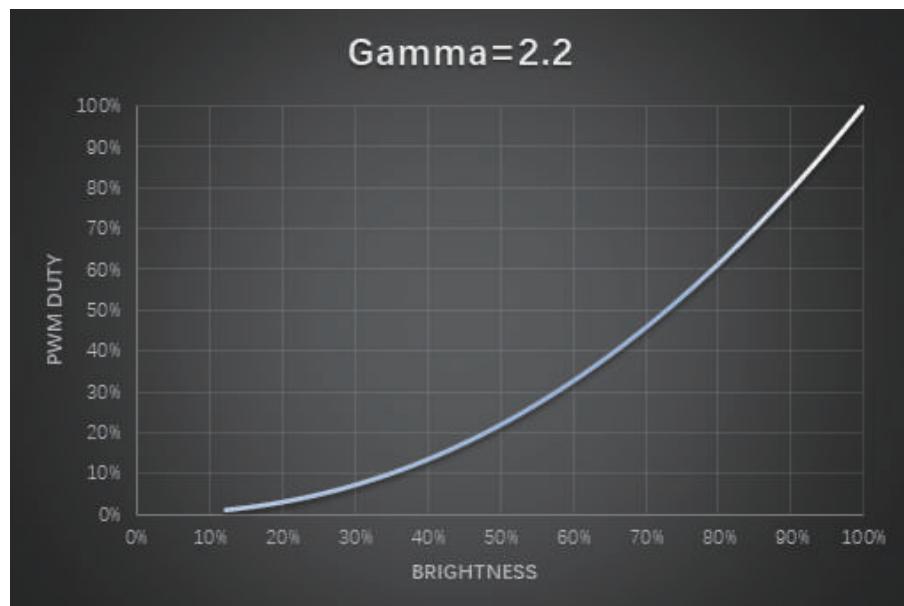


Fig. 1:Power Meter



Fig. 2:Multi-channel Temperature recorder

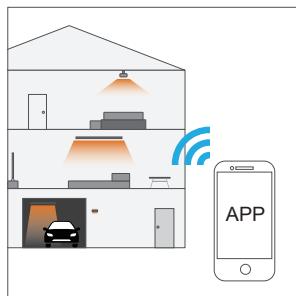
Dimming curve setting



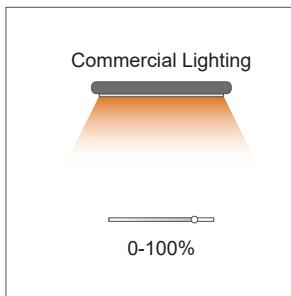
Logarithmic dimming curve

IKINETIC SMART LIGHTING SOLUTION

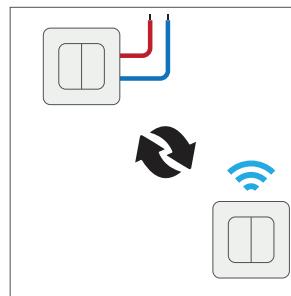
- **Smart Home Lighting Upgrade:** Supports Matter over Wi-Fi, allowing seamless integration into smart home ecosystems with app control, voice activation, and scheduled dimming.
- **Energy-Efficient Commercial & Office Lighting:** Enables 0-100% precise dimming, optimizing energy use based on ambient lighting conditions, reducing power consumption.
- **Indoor Lighting Retrofit Solutions:** Compatible with Ikinetic wiredless switches (433MHz), making it ideal for both new installations and retrofitting existing lighting systems without additional wiring.
- **Compact Installation for Various Fixtures:** The small form factor allows easy integration into recessed lighting, linear lights, track lights, and panel lights.



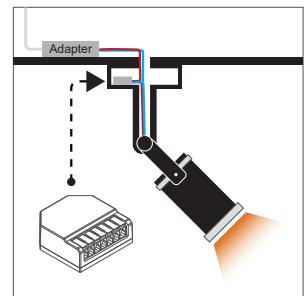
Smart Home Lighting Upgrade



Energy-Efficient Commercial & Office Lighting



Indoor Lighting Retrofit Solutions



Compact Installation for Various Fixtures

NOTE

- Please supply with correct DC power supply between 12-48Vdc.
- Kindly note the maximum load rating of the controller before installation.
- You might need smart speaker to allow Matter over WiFi device working. Please check with smart speaker manufacturer if the model is matter supported.
- Transmission distance refer to transmitter user manual.
- The DC dimmer and RF switch shall be installed 20cm away from any metal surface and strong electromagnetic wave nearby to give better performance.
- Damage caused by incorrect installation and operation are not covered under warranty.

⚠ CAUTIONS

- Ensure that the power is turned off before carrying out electrical installation.
- Do not short-circuit and over-load, it may cause permanent damage to the receiver.
- If a fault occurs, please seek advice from a local supplier.