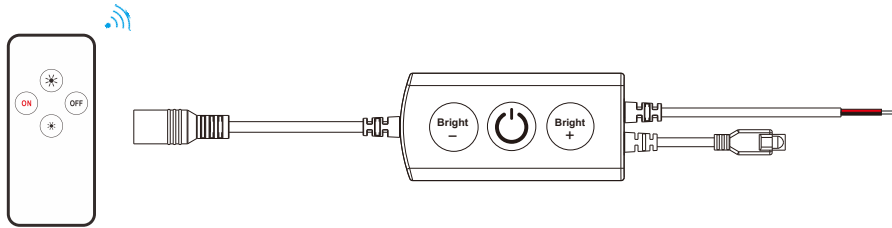


3-Key Single Color LED IR Controller

Model No. :F1-D

1 channel constant voltage/Max 5A output/Step-less dimming/IR remote control



FC CE RoHS EMC LVD

Features

- 1 channel constant voltage single color LED mini controller.
- 3 key operation with on/off and dimming.
- 5A output, connect with 5 meters single color LED strip.
- 8192 levels 0-100% dimming smoothly without any flash.

Technical Parameters

Input and Output	
Input voltage	12-24VDC
Output voltage	12-24VDC
Output current	Max. 5A
Output type	Constant voltage

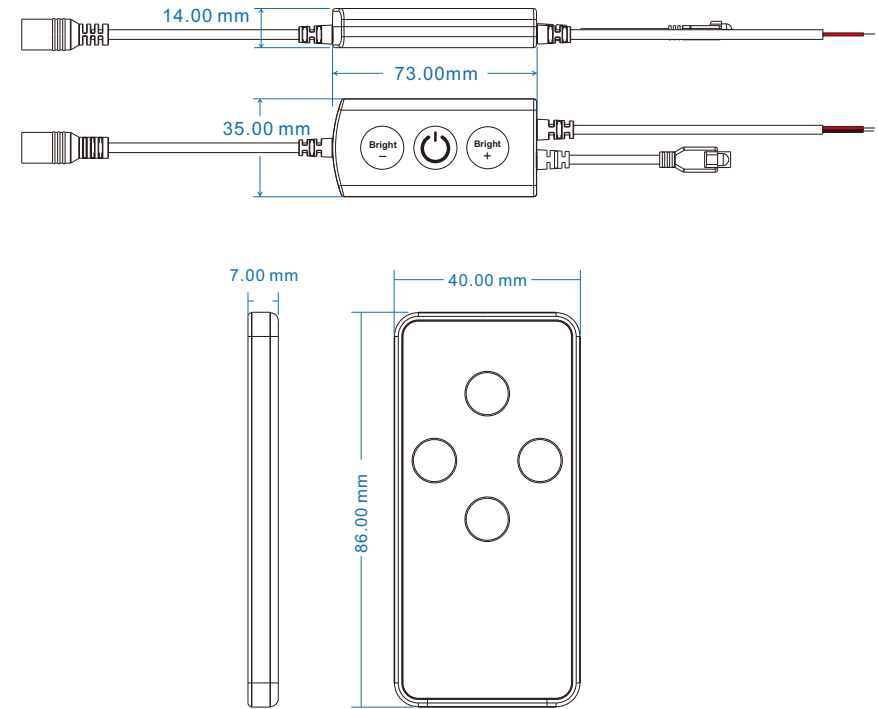
Safety and EMC	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard(LVD)	EN 62368-1:2020+A11:2020
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Certification	CE,EMC,LVD,RED

Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity Over heat Short circuit

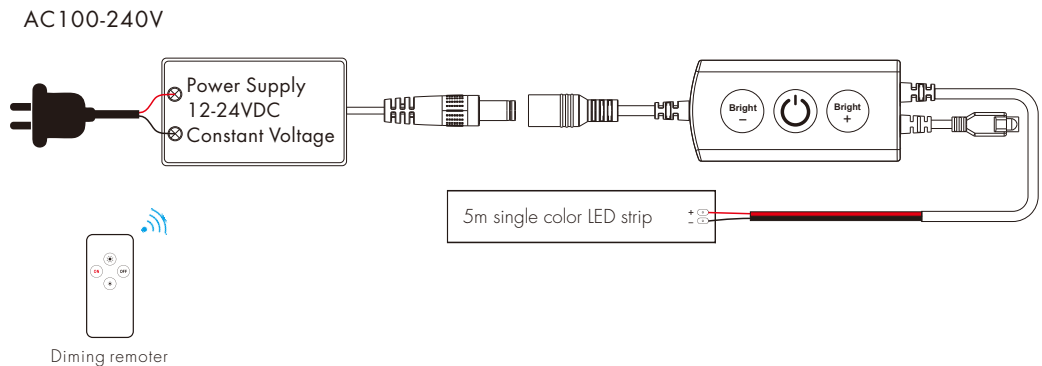
Dimming data	
Input signal	IR
Control distance	10m(Barrier-free space)
Dimming gray scale	8192 (2^13) levels
Dimming range	0-100%
Dimming curve	Logarithmic
PWM Frequency	2000Hz (default)

Environment	
Operation temperature	Ta: -30°C ~ +55°C
Case temperature (Max.)	Tc: +85°C
IP rating	IP20

Dimension



Wiring Diagram



Key Function of controller



:Turn on or off light.

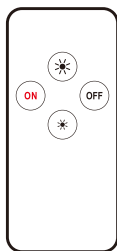


:Brightness -, short press 10 levels,
long press 1-6s for continuous 256 levels adjustment.



:Brightness +, short press 10 levels,
long press 1-6s for continuous 256 levels adjustment.

Key Function of remoter



:Turn on the light.



:Turn off the light.

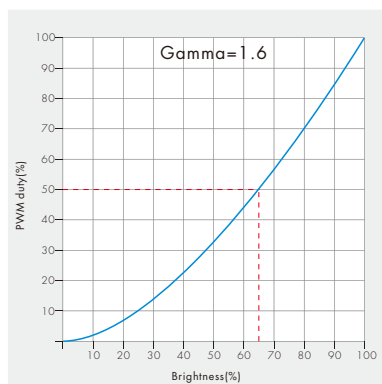


:Increase brightness,
Short press 10 levels, long press 1-6s for continuous 256 levels adjustment.



:Decrease brightness,
Short press 10 levels, long press 1-6s for continuous 256 levels adjustment.

Dimming Curve



Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
No response from the remote	1. The battery has no power. 2. Beyond controllable distance.	1. Replace battery. 2. Reduce remote distance.