



PUSHRF350MA PUSHRF700MA

4 Channels/Constant current/Push Dim/Wireless remote control/Auto-transmitting/Synchronize



FC CE RoHS LVD RED

Features

- Set as single color, dual color, RGB or RGBW controller by DIP switch.
- Match with 2.4G single zone or multiple zone single color, dual color and RGB/RGBW remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- When using with RGB/RGBW light, built in 10 dynamic mode, include jump or gradual change style.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.
- Connect with external push switch to achieve on/off and 0-100% dimming function.

Technical Parameters

Input and Output	
Input voltage	12-48VDC
Output voltage	4 x [3-42]VDC
Output current	4CH, 350mA (PUSHRF350MA) or 700mA (PUSHRF700MA)
Output power	4 x [1.05-14] JW [350mA] 4 x [2.1-28] JW [700mA]
Output type	Constant current

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

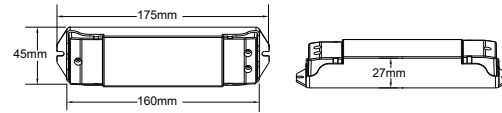
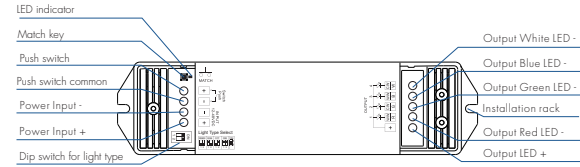
Protection	
Protection	Reverse Polarity Short circuit

Dimming data	
Input signal	RF 2.4GHz + Push Dim
Control distance	30m(Barrier-free space)
Dimming gray scale	4096 (2 ¹²) levels
Dimming range	0-100%
Dimming curve	Logarithmic

Safety and EMC	
EMC standard [EMC]	EN301 489;EN 62479
Safety standard[LVD]	EN60950
Radio Equipment[RED]	EN300 328
Certification	CE,EMC,LVD,RED

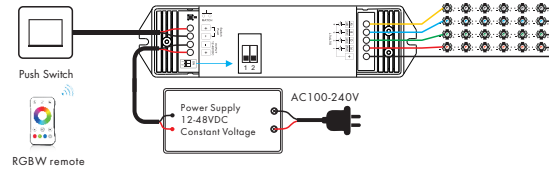
Weight	
Net weight	0.120kg
Gross weight	0.140kg

Mechanical Structures and Installations

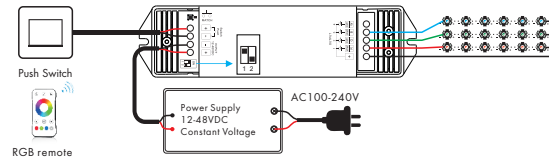


Wiring Diagram

● PUSHRF350MA/PUSHRF700MA for RGBW

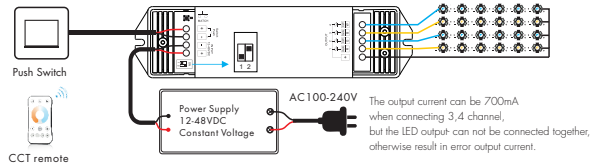


● PUSHRF350MA/PUSHRF700MA for RGB

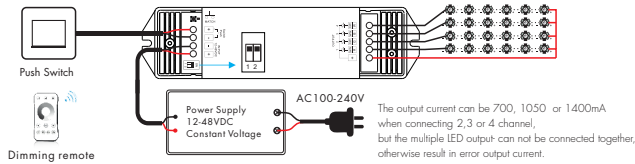


1. The LED quantity at each channel can be different, the controller could auto check and output a proper voltage to each channel according to its LED quantities.
2. The controller works on buck mode, the voltage of power supply should be greater than the total voltage of the series LEDs.

● PUSHRF350MA/PUSHRF700MA for dual color



● PUSHRF350MA/PUSHRF700MA for single color



Push Dim

Single color	Click	ON/OFF
	Double Click	Turn on at 100% or 10%(night light) and vice-versa
	Long press(> 1s) from OFF	Dimming UP/DOWN
	Long press(> 1s) from ON	Dimming UP/DOWN
Dual Color	Click	ON/OFF
	Double Click	Turn on at 100% or 10%(night light) and vice-versa
	Long press(> 1s) from OFF	Color temperature UP/DOWN (turn off and turn on to return dimming)
	Long press(> 1s) from ON	Dimming UP/DOWN
RGB	Click	ON/OFF
	Double Click	Change from color mode to white mode (RGB mixed) and vice-versa
	Long press(> 1s) from OFF	If on color mode change rotation speed; If on white mode dimming UP/DOWN
	Long press(> 1s) from ON	If on color mode start/stop color rotation; If on white mode dimming UP/DOWN
RGBW	Click	ON/OFF
	Double Click	Change between color mode, white mode (W channel) and color+W mode
	Long press(> 1s) from OFF	If on color mode change rotation speed; If on white mode or color+W mode, W dimming UP/DOWN
	Long press(> 1s) from ON	If on color mode start/stop color rotation; If on white mode or color+W mode, W dimming UP/DOWN



We can select 4 rotation speed:

10 flash/s means 6 seconds color rotation, 5 flash/s means 30 seconds color rotation,
2 flash/s means 1 minute color rotation, 1 flash/s means 6 minutes color rotation.

Match Remote Control (two match ways)

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 press zone key on the remote.

The LED indicator fast flash a few times means match is successful.

Delete:
Press and hold match key for 5s to delete all match, The LED indicator fast flash a few times means all matched remotes were deleted.

Use Power Restart

Match:
Switch off the power, then switch on power again, immediately short press zone key 3 times on the remote.

The light blinks 3 times means match is successful.

Delete:
Switch off the power, then switch on power again, immediately short press zone key 5 times on the remote.

The light blinks 5 times means all matched remotes were deleted.

RGB/RGBW dynamic mode list

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

Dual color control

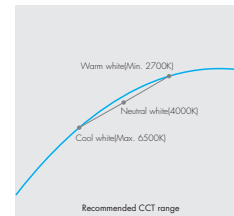
CH1,CH3=Warm white LED

CH2,CH4=Cool white LED

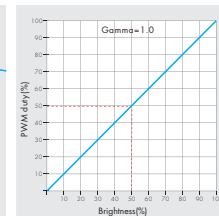
Each channel can supply up to 16W(@48V) and white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH1=0W,CH2=16W CH3=0W,CH4=16W	CH1=8W,CH2=8W CH3=8W,CH4=8W	CH1=16W,CH2=0W CH3=16W,CH4=0W

Linear dual color tuning



Dimming curve for CCT



Dimming curve for RGBW/RGB/DIM

