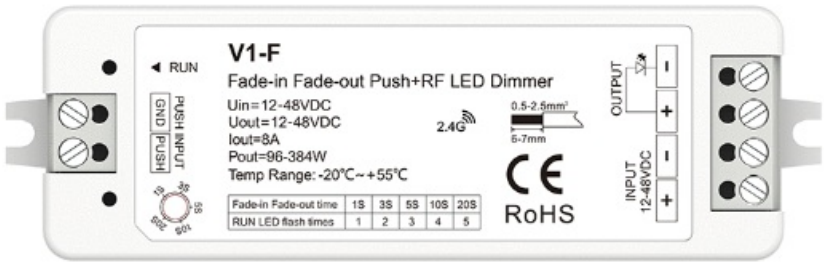# RED 069023 RF DIM Fade in Fade Out Push Plus RF LED Dimmer Owner's Manual

Contents

RED 069023 RF DIM Fade in Fade Out Push Plus RF LED Dimmer

Specifications

- Input and Output:
  - Input voltage: 12-48VDC
  - Input current: 8A
  - Output voltage: 12-48VDC
  - Output current: 1CH, 8A
  - Output power: 96-384W
- Output type: Constant voltage
- Warranty and Protection:
  - Warranty: 5 years
  - Protection: Short circuit, Over-heat, Over-load
- Mechanical Structures and Installations:
  - Size: L114 x W38 x H26mm
  - Weight: 0.053kg
- Safety and EMC:
  - EMC standard: ETSI EN 301 489-1 V2.2.3, ETSI EN 301 489-17 V3.2.4
  - Safety standard: EN 61348-1:2015+A1:2021, EN 61348-2-13:2014+A1:2017
  - Certification: CE, EMC, RED
- Environment:
  - Operation temperature: -20°C to +55°C
  - Case temperature (Max.): +85°C
  - IP rating: IP20

Product Usage Instructions

Fading Speed Adjustment:
Rotate the knob potentiometer to adjust the fading speed. Select from options of 1S, 3S, 5S, 10S, or 20S for the fading speed.

Power On/Off and Dimming Function:
To power on/off and adjust brightness (0-100%), connect with a self-resetting metal button or push switch. Positive or negative trigger input can be used. Press the button or switch to control the function.

RF Remote Control
You can pair the dimmer with an RF 2.4G single zone or multiple zone dimming remote control for additional convenience in adjusting brightness.

LED Output and Installation:
Connect the LED output and power input as per the wiring diagram provided. Ensure proper installation of the dimmer for optimal performance.

069023 dimLED PR 1SL SLOW
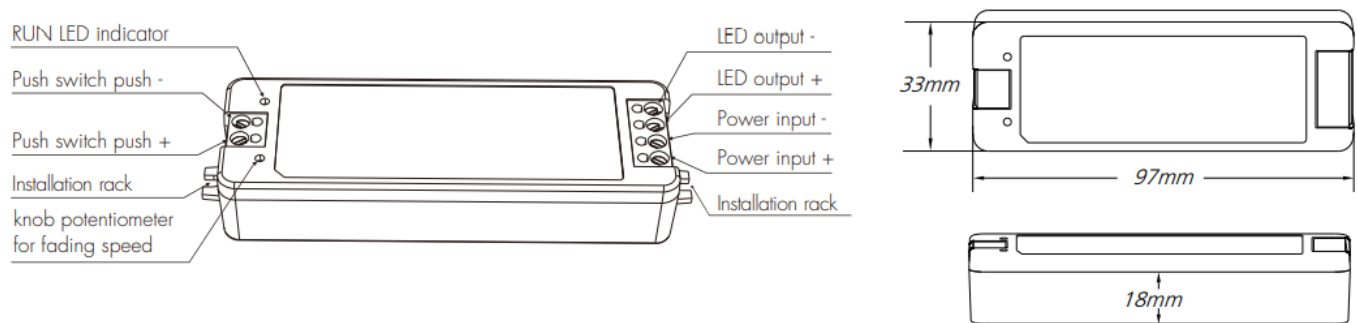
Fade-in Fade-out Push+RF LED Dimmer

- Fade-in Fade-out LED dimmer with smooth fading effect for soft start and stop.
- The fading speed can be set via knob potentiometer, 1S, 3S, 5S, 10S, 20S selectable.
- Connect with self-resetting metal button or push switch to achieve on/off and 0-100%dimming function.

- Push input can accept either positive or negative trigger.
- Match with RF 2.4G single zone or multiple zone dimming remote control optional.
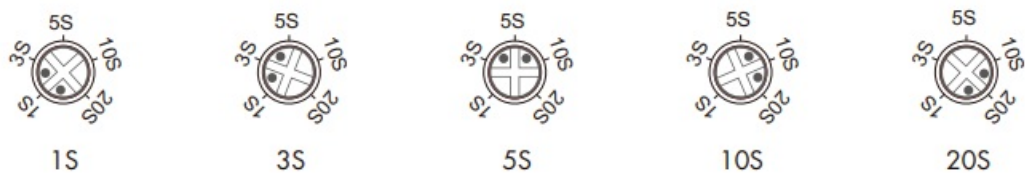- Over-heat / Over-load / Short circuit protection, recover automatically.

Technical Parameters

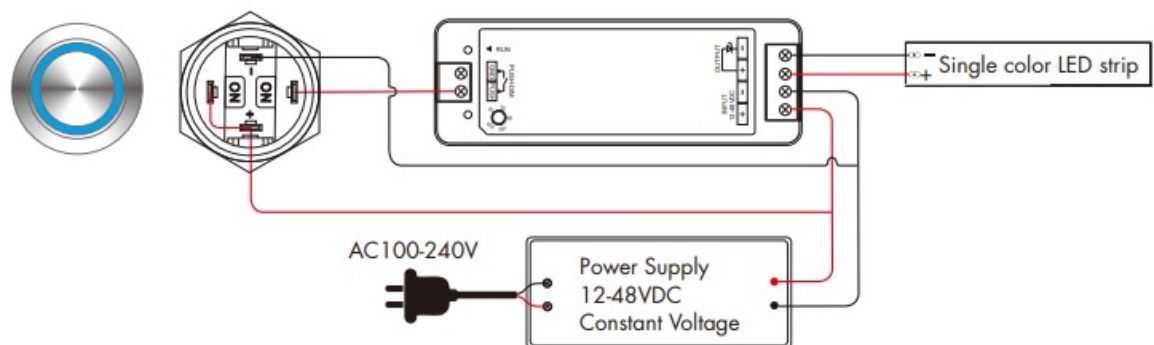| Input and Output		Dimming data		Safety and EMC	
Input voltage	12-48VDC	Input signal	RF 2.4GHz + Push Dim	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Input current	8A	Control distance	30m(Barrier-free space)	Safety standard	EN 61348-1:2015+A1:2021 EN 61348-2-13:2014+A1:2017
Output voltage	12-48VDC	Dimming gray scale	4096 (2^12) levels		
Output current	1CH,8A	Dimming range	0-100%	Radio Equipment (RED)	ETSI EN 300 328 V2.2.2
Output power	96-384W	Dimming curve	Logarithmic	Certification	CE, EMC, RED
Output type	Constant voltage	PWM Frequency	2000Hz (default)	Environment	
Warranty and Protection		Package		Operation temperature	Ta: -20℃ ~ +55℃
Warranty	5 years	Size	L114 x W38 x H26mm	Case temperature (Max.)	Tc: +85℃
Protection	recover automatically, Short circuit, Over-heat, Over-load	Gross weight	0.053kg	IP rating	IP20

Mechanical Structures and Installations
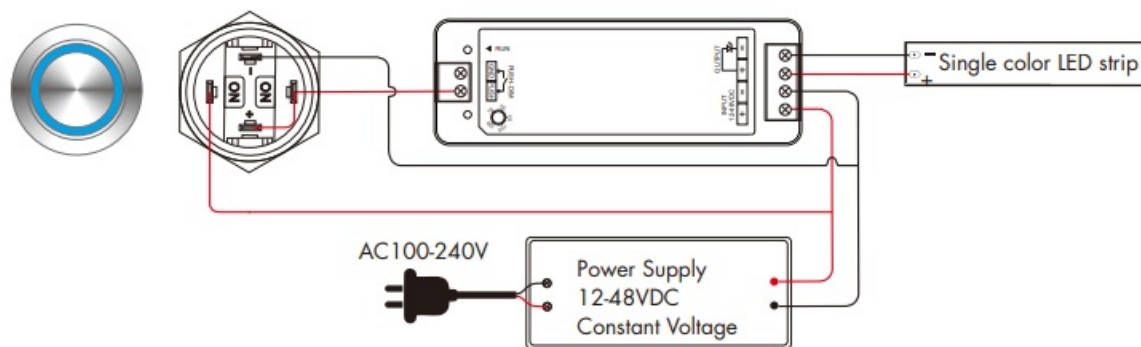

Light on/off fading speed

Wiring Diagram

- Connect with self-resetting metal button, positive trigger input. Press the button to switch or adjust brightness, the button indicator always lights up.
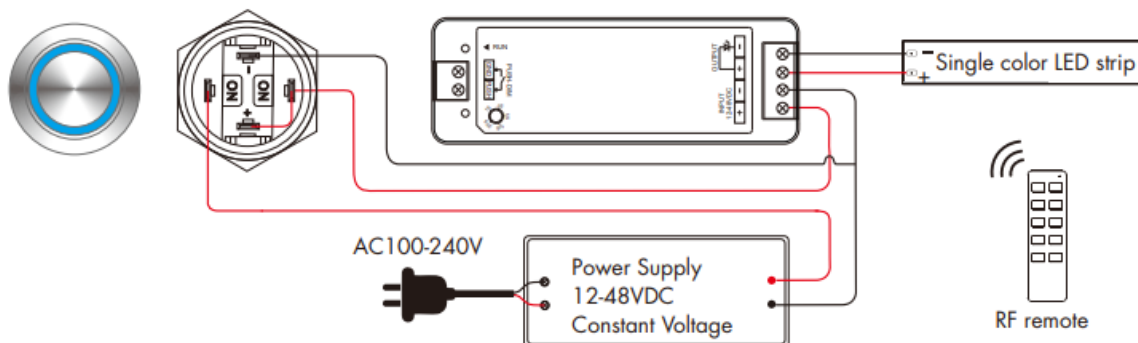

- Connect with self-resetting metal button, positive trigger input. Press the button to switch or adjust brightness,
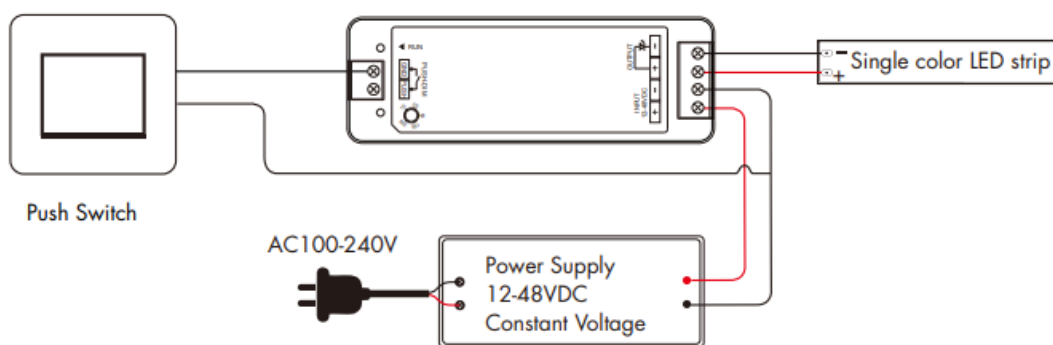
the button indicator lights up when pressed.

- Connect with self-latching metal button. Press the button to power on or off the controller, the button indicator lights up when pressed. Use RF remote to adjust brightness optional.

- Connect with push switch panel, negative trigger input. Press the panel to switch or adjust brightness.

Match Remote Control

Match:
Switch off the power, then switch on power.
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.
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.
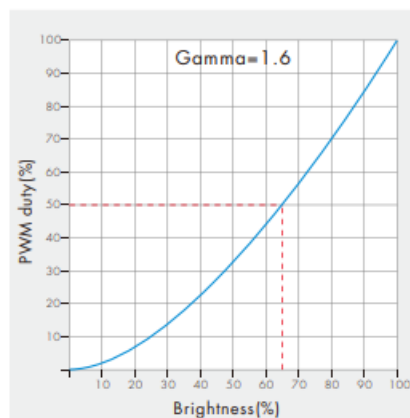
Push Dim Function

The provided Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switch or metal button.

- **Short press**:

- Turn on or off light.
- **Long press (1-6s):**
  - Press and hold to step-less dimming,
  - With every other long press, the light level goes to the opposite direction.
- **Dimming memory:**
  - Light returns to the previous dimming level when switched off and on again, even at power failure.
- **Synchronization:**
  - If more than one controller are connected to the same push switch, do a long press for more than 10s, then the system is synchronized and all lights in the group dim up to 100%.
  - This means there is no need for any additional synchrony wire in larger installations.

We recommend the number of controllers connected to a push switch does not exceed 25 pieces, The maximum length of the wires from push to controller should be no more than 20 meters.

Dimming Curve

FAQs

Q: How do I know if the fading speed is set correctly?
A: When the fading speed is set to 1/3/5/10/20s, the RUN LED indicator will flash 1/2/3/4/5 times respectively.
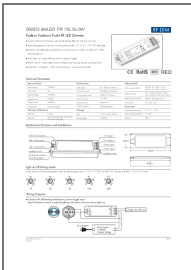
Q: What is the control distance of the dimmer?
A: The dimmer can be controlled within a distance of up to 30m in a barrier-free space using RF 2.4GHz + Push Dim.

Q: What protection features does the dimmer offer?
A: The dimmer provides protection against short circuit, over-heat, and over-load. These protections recover automatically for added safety.

Documents / Resources

RED 069023 RF DIM Fade in Fade Out Push Plus RF LED Dimmer [pdf] Owner's Manual
069023 RF DIM Fade in Fade Out Push Plus RF LED Dimmer, 069023, RF DIM Fade in Fade Out Push Plus RF LED Dimmer, Fade Out Push Plus RF LED Dimmer, Push Plus RF LED Dimmer, LED Dimmer

References

- **User Manual**