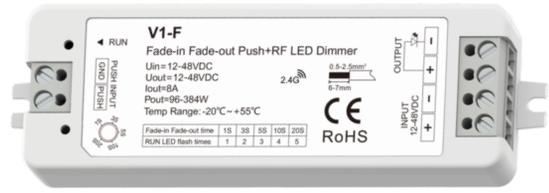# V1-F

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.
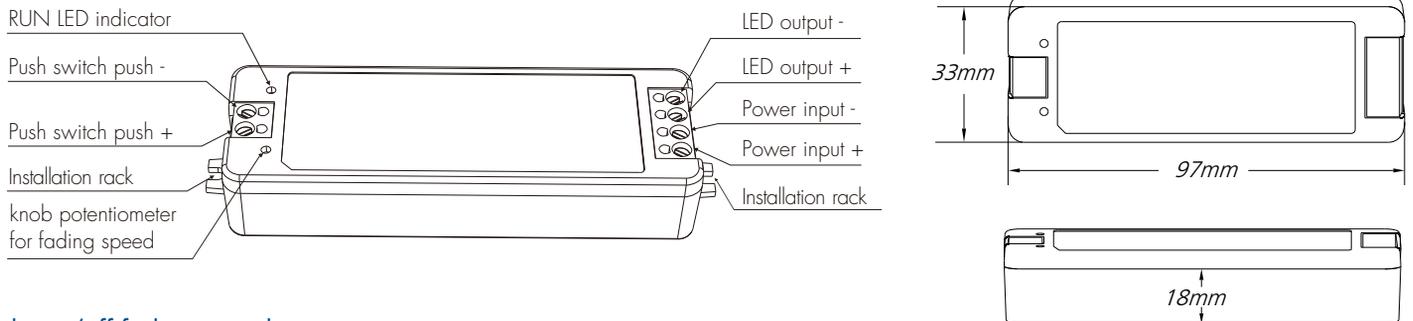- Over-heat / Over-load / Short circuit protection, recover automatically.

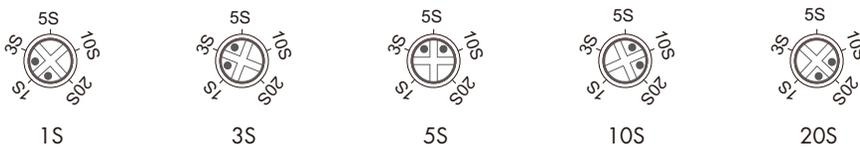CE RoHS RED

Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	12-48VDC	Input signal	RF 2.4GHz + Push Dim	EMC standard	EN 62479:2010 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)		
Output voltage	12-48VDC	Dimming gray scale	4096 (2^12) levels	Safety standard	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017
Output current	1CH,8A	Dimming range	0-100%	Radio Equipment	ETSI EN 300 328 V2.2.2
Output power	96-384W	Dimming curve	Logarithmic	Certification	CE RED
Output type	Constant voltage	PWM Frequency	2000Hz (default)	Environment	
Warranty and Protection		Package		Operation temperature	Ta: -20°C ~ +55°C
Warranty	5 years	Size	L114 x W38 x H26mm	Case temperature (Max.)	Tc: +85°C
Protection	recover automatically, Short circuit, Over-heat, Over-load	Gross weight	0.053kg	IP rating	IP20

Mechanical Structures and Installations

- RUN LED indicator
- Push switch push -
- Push switch push +
- Installation rack
- knob potentiometer for fading speed
- LED output -
- LED output +
- Power input -
- Power input +
- Installation rack
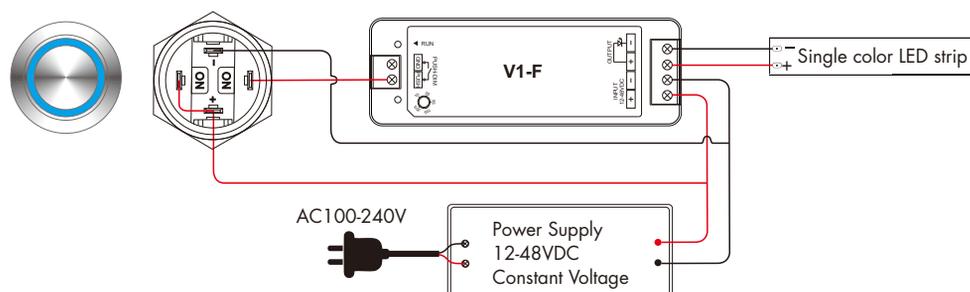
33mm

97mm

18mm

Light on/off fading speed

Rotate knob to switch fading speed, when the fading speed set to 1/3/5/10/20s, the RUN LED indicator will flash 1/2/3/4/5 times.
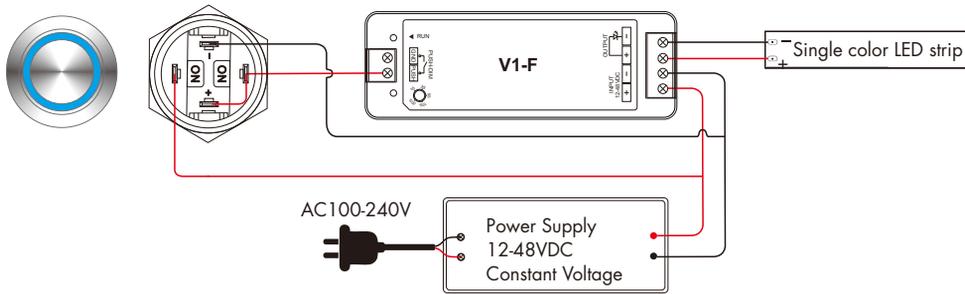

1S   3S   5S   10S   20S
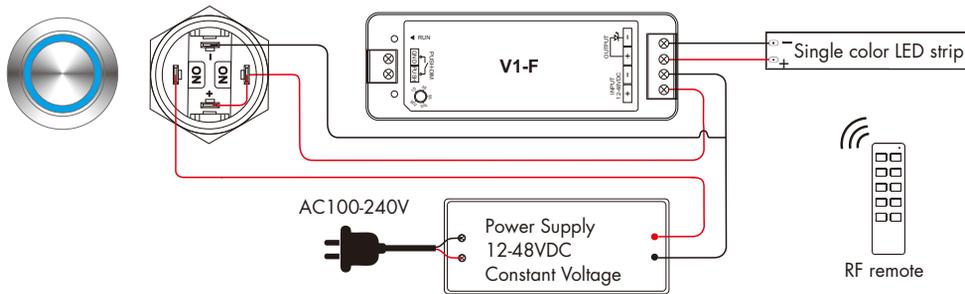
Wiring Diagram

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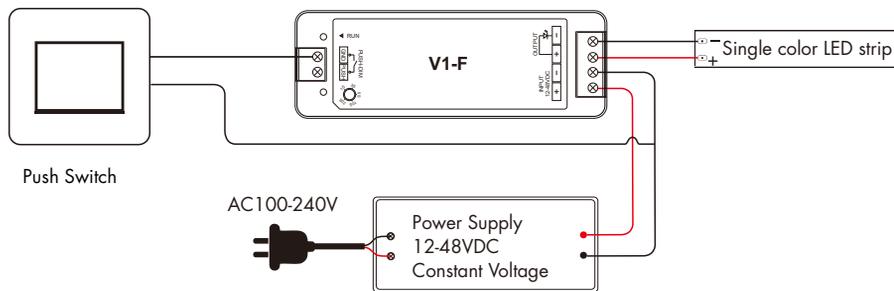

V1-F

Single color LED strip

AC100-240V

Power Supply
12-48VDC
Constant Voltage

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

AC100-240V

Power Supply
12-48VDC
Constant Voltage

V1-F

Single color LED strip

● 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.

AC100-240V

Power Supply
12-48VDC
Constant Voltage

V1-F

Single color LED strip

RF remote

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

Push Switch

AC100-240V

Power Supply
12-48VDC
Constant Voltage

V1-F

Single color LED strip

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