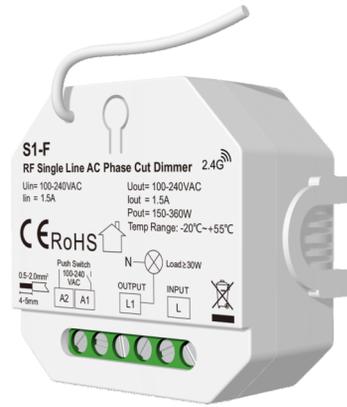


## Single Line AC Phase Cut RF Dimmer

- RF + AC Push +single line phase cut dimmer, 1 channel output.
- To dim and switch single color dimmable LED lamps, traditional incandescent and halogen lights.
- 256 levels 0-100% dimming smoothly without any flash.
- Min brightness can be set by key.
- Light on/off fade time 3s selectable.
- Compatibility with RF 2.4G single zone or multiple zone dimming remote control.
- Connect with AC push switch to achieve on/off and 0-100% dimming function.
- Easy to be placed in standard wall junction box behind a push switch.
- Over-heat / Over-load protection, recover automatically.



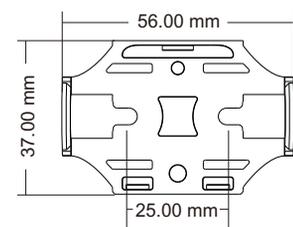
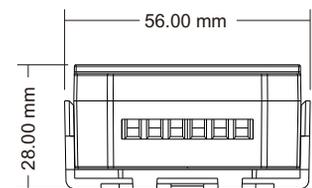
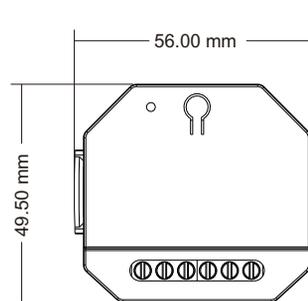
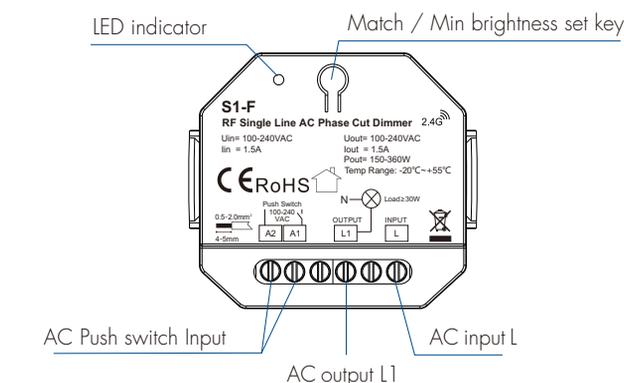
### Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	100-240VAC	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
Output voltage	100-240VAC	Control distance	30m(Barrier-free space)	Safety standard	EN 62368-1:2020+A11:2020
Input current	1.5A	Dimming gray scale	256 level	Certification	CE,EMC
Output current	1.5A	Dimming range	0-100%	<b>Environment</b>	
Output power	150-360W	<b>Package</b>		Operation temperature	T <sub>a</sub> : -20°C ~ +55°C
<b>Warranty and Protection</b>		Size	L 60xW60xH40mm	Case temperature (Max.)	T <sub>c</sub> : +85°C
Warranty	5 years	Gross weight	0.069kg	IP rating	IP20
Protection	Over-heat,Over-load				

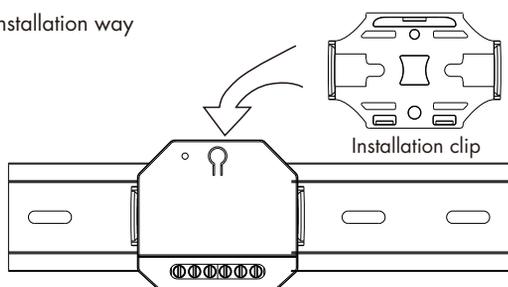
### Compatible Load Types

Load Type	Maximum Load	Remarks
Dimmable LED lamps	200W @ 220V 100W @ 110V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to dimmer.
Incandescent lighting, HV Halogen lamps	400W @ 220V 200W @ 110V	

### Mechanical Structures and Installations



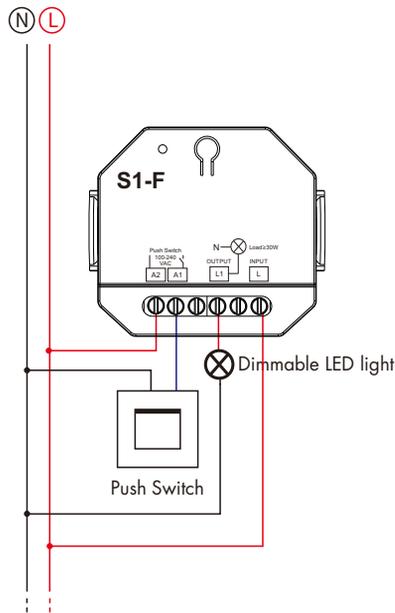
#### Installation way



#### Note:

1. The installation must be installed or removed by a professional electrician.
2. Please keep the device out of the reach of children.
3. Please keep away from water, humid or hot environment.
4. The device should be kept away from strong signal sources (such as microwave ovens) to avoid signal interruption and cause the device not to work properly.
5. Avoid placing the device close to or near high-density materials (such as metal, concrete walls, etc.), which will reduce or block the wireless signal.

## Wiring diagram



**⚠ Caution:** Please carefully ensure all wire connections and polarities are correct and secure before applying power, otherwise this dimmer will be damaged.

**Note:**

1. To work properly, the single line phase cut dimmer of the connected load lamps should be  $\geq 30W$ .
2. When calculating the maximum number of load lamps, the input power or input current parameters of a single lamp must be used, the output power parameters can not be used.

In addition, the maximum surge current of the dimmer is 65A, the sum of surge current of multiple dimmable LED lamps should not exceed 2 times, otherwise, the product will be overloaded and damaged.

### Push dim function

- **Short press:** Turn on or off light.
- **Long press (1-6s):** Press and hold to stepless 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.

### Min brightness setting

Long press Min set key for 2s, the light blink 2 times, ready for min brightness set, then short press Min set key 1-4 times, to get 4 min brightness: 5%, 10%, 15%, 20%, the light will output the current min brightness immediately, Long press Min set key for 2s or wait 8s, quit min brightness set, the light will output 100% brightness automatically.

### Light on/off fade time

Long press Match key 5s, then short press Match key 3 times, the light on/off time will be set to 3s, the indicator light blink 3 times. Long press Match key 10s, restore factory default parameter, the light on/off time also restore to 0.5s.

### 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 on/off key (single zone remote) or zone key (multiple zone remote) 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, repeat again.

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, repeat again.

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.

## 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. 3. The controller did not match the remote.	1. Replace battery. 2. Reduce remote distance. 3. Re-match the remote.