LDT-WIFI-RF-A10-20MA

Wi-Fi & RF 0/1-10V Dimming Interface

Convert app, RF or a local push switch into a 0/1-10V dimming signal for compatible LED drivers. Choose 0-10V or 1-10V using the DIP switch.

Model specifications

Supply voltage	100-240 VAC
Output signal	1 x selectable 0-10V / 1-10V, 20 mA
Control inputs	Wi-Fi + 2.4 GHz RF + AC push switch
Dimming	0-100%; 256 levels
Recommended driver count	Up to 50, subject to signal-current loading
Recommended signal cable	Up to 50 m; 0.75 mm² copper
Operating temperature	-30 to +55 °C
Maximum case temperature	+65 °C
IP rating	IP20
Dimensions	52 x 52 x 26 mm

The 20 mA output is a dimming signal, not LED power. Driver control inputs, total signal current and wiring distance must all be compatible.

The following technical-reference pages retain the complete diagrams, dimensions, settings and installation instructions. Select the lighting variant stated on this cover; family diagrams may also illustrate other variants.

Wi-Fi + RF

0/1-10V WiFi + RF + Push Dimmer

Features

- WiFi + RF + AC push 0/1-10V dimmer, 1 channel output.
- Output 1 channel 0/1-10V signal, connect with 0/1-10V dimmable driver.
- **Control app cloud control, support on/off, brightness adjust,** delay turn on/off light, timer run, scene function.
- Voice control, support for Amazon Alexa, Google Assistant, Tmall Genieand Xiaodu voice assistant.
- 0-10V or 1-10V output selectable by DIP switch.
- 256 levels 0-100% dimming smoothly without any flash.
- Compatibility with RF 2.4G single zone or multiple zone dimming remote control.
- **Each 0/1-10V controller can also work as WiFi-RF converter, then use Control app to control one or more RF dimming LED controller** or driver synchronously.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Light on/off fade time 3s selectable.
- Easy to be placed in standard wall junction box behind a push switch.

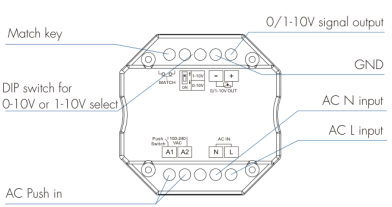


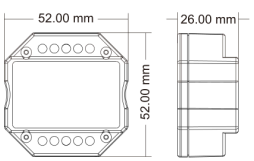
CE RoHS

Technical Parameters

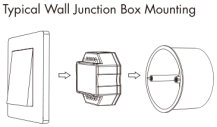
Input and Output		Environment		Safety and EMC	
Input voltage	AC100-240V	Operation temperature	Ta: -30 ℃ – +55 ℃	Safety standard	EN 61347-1/-2
Output signal	0/1-10V (20mA)	Case temperature (Max.)	Tc: +65 ℃	EMC standard	EN IEC 55015/ EN IEC 61547 ETSI EN 301 489-1/-3/-17
Dimming data		IP rating	IP20	Radio Equipment	ETSI EN 300 440 ETSI EN 300 328
Input signal	WiFi + RF + Push Dim	**Package**		Certification	CE RoHs
RF control distance	30m(Barrier-free space)	Size	L60 x W60 x H40mm	**Warranty**	
Dimming level	256 levels	Gross weight	0.060kg	Warranty	5 years
Dimming range	0 -100%				

Mechanical Structures and Installations

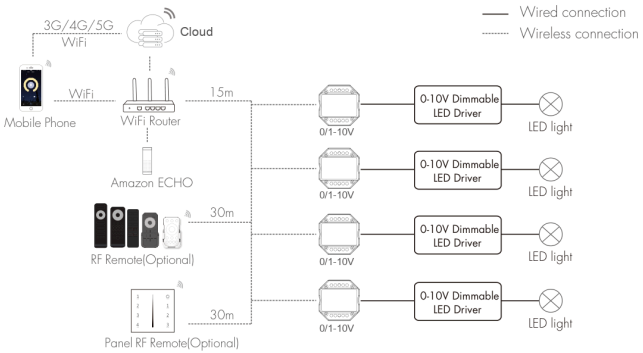




Typical Wall Junction Box Mounting



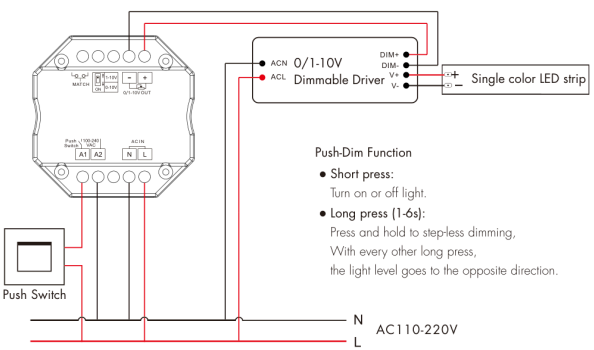
System Wiring



Note:

1. The above distance is measured in spacious (no obstacle) environment, please refer to the actual test distance before installation.
2. Please check if the WiFi router net in 2.4G band, the 5G band is not available, and do not hide your router network.
3. **Please keep the distance between 0/1-10V devices and router close, and check the WiFi signals.**

Wiring Diagram



Push-Dim Function

- 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.

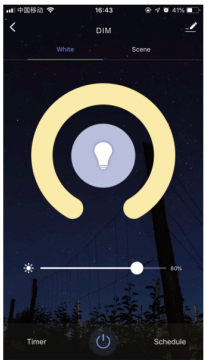
Note:

1. In order to ensure dimming consistency, we recommend the number of LED drivers connected to 0/1-10V dimmer does not exceed 50 pcs, The maximum length of the wires from dimmer to LED driver should be no more than 50 meters (use copper wire with a cross-sectional area of 0.75 mm² for wiring).
2. Switch off the power, then switch on power, repeat again. Immediately short press match key 3 times, the light on/off time will change between 3s and 0.5s.

Control app Network Connection and Operation

Press and hold Match/Set key for 5s, or push twice Match/Set key fastly,
Clear previous network connection, enter WiFi config mode,
the blue LED indicator fast flash.

Repeat power off and on for 5 consecutive times fastly,
also clear previous network connection,
enter WiFi config mode, the output LED will flash 10 times.
If Control app network connection succeed,
the blue LED indicator will stop flash,
and in Control app, you can find DIM device.



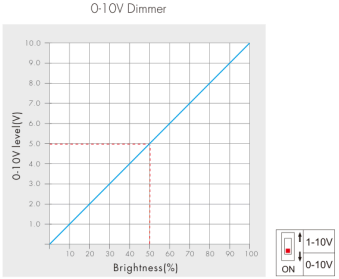
When controlling the light with Smart Life app,
if the network connection is poor,
you can control the light with Bluetooth connection within the Bluetooth control range.
Note: The light can not be directly controlled by Bluetooth without WiFi configuration.

Control app interface operation:
Touch brightness slide to adjust brightness.

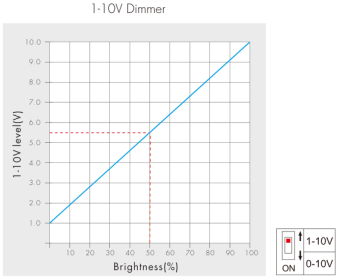
0-10V or 1-10V Dimming Setting

Select 0-10V dimmer or 1-10V dimmer according to dimmable LED driver.

0-10V Dimmer



1-10V Dimmer



0/1-10V Match RF Remote Control (Optional)

End user can choose the suitable match/delete ways. Two options are offered for selection:

Use the 0/1-10V's Match key

Match:
Short press match key of 0/1-10V,
immediately press on/off key (single zone remote)
or zone key (multiple zone remote) on the remote.

Delete:
Press and hold match key of 0/1-10V
for 10s to delete all match,
The light blinks 5 times means all matched remotes
were deleted.

Use Power Restart

Match:
Switch off the power of 0/1-10V, 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 of 0/1-10V, 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.

0/1-10V Work as WiFi-RF Converter to Match Other RF Dimming LED Controller or Driver

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 of the controller,
immediately press on/off key on the Control app.
The LED indicator fast flash a few times means match
is successful.

Delete:
Press and hold match key of the controller for 5s,
The LED indicator fast flash a few times means match
was deleted.

Use Power Restart

Match:
Switch off the power of the controller, then switch on power,
repeat again.
Immediately short press on/off key 3 times
on the Control app.
The light blinks 3 times means match is successful.

Delete:
Switch off the power of the controller, then switch on power,
repeat again.
Immediately short press on/off key 5 times
on the Control app.
The light blinks 5 times means match was deleted.