LDT-WIFI-RF-SW-15A

Wi-Fi & RF Smart AC Relay Switch

Switch compatible mains lighting loads from an app, optional RF control or local momentary switch. A high-inrush relay switches power; the unit has no dimming function.

Model specifications

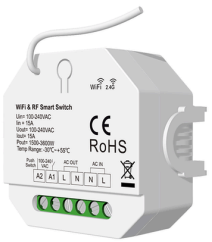
Supply / switched voltage	100-240 VAC
Output type	Normally-open relay; on/off only
Maximum current	15 A resistive; 10 A inductive
Published output power	1500-3600 W
Relay inrush limit	120 A / 20 ms
Control inputs	Wi-Fi + 2.4 GHz RF + AC push switch
RF distance	Up to 30 m, unobstructed
Operating temperature	-30 to +55 °C
Maximum case temperature	+85 °C
IP rating	IP20
Dimensions	56 x 56 x 28 mm

On/off only: this is not a dimmer. The total surge of connected capacitive or inductive loads must remain below the relay limit.

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

WiFi & RF Smart AC Switch



CE RoHS

Features

- WiFi + RF + AC push smart switch, without dimming function.
- To switch single color LED lamps, traditional incandescent and halogen
- **Control app cloud control, support on/off,**
  delay turn on/off light and timer run function.
- Voice control, support for Amazon Alexa, Google Assistant, Tmall Genie and Xiaodu voice assistant.
- Compatibility with RF 2.4G dimming remote control.
- Each controller can also work as WiFi-RF converter,
  then use Control app to control one or more RF switch or controller synch
- Connect with external push switch optional.
- High-inrush specification relays (normally open).

Technical Parameters

Input and Output	
Input voltage	AC100-240V
Output voltage	AC100-240V
Output current	15A (Resistive load) 10A (inductive load)
Output power	1500-3600W
Relay surge current	120A (20ms)
Input signal	WiFi + Push switch + RF 2.4GHz
RF Control distance	30m (Barrier-free space)

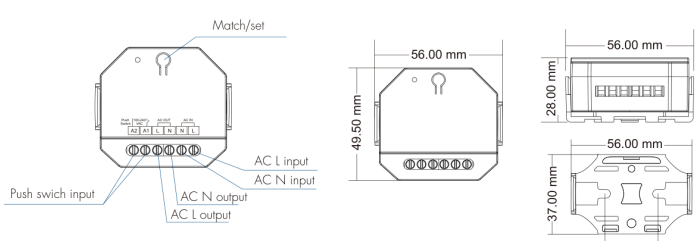
Environment	
Operation temperature	Ta: -30 °C ~ +55 °C
Case temperature (Max.)	Tc: +85 °C
IP rating	IP20

Package	
Size	L60 x W60 x H40mm
Gross weight	0.061kg

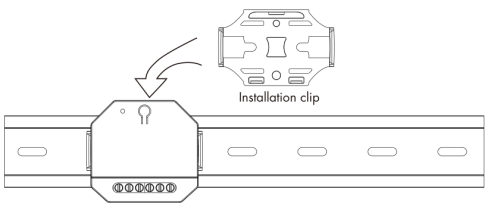
Safety and EMC	
EMC standard	EN IEC 55015/ EN IEC 61547 EN IEC 61000-3-2/ EN IEC 61000-3-3 ETSI EN 301 489-1/-3/-17
Safety standard	EN 61347-1/-2
Radio equipment	ETSI EN 300 328 ETSI EN 300 440
Certification	CE RoHS

Warranty	
Warranty	5 years

Mechanical Structures and Installations

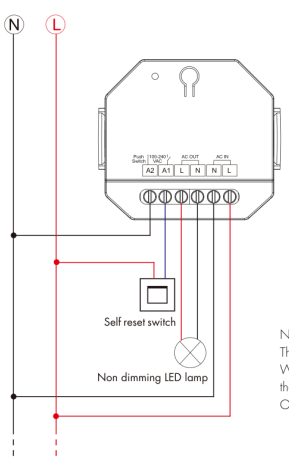


Installation method



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.

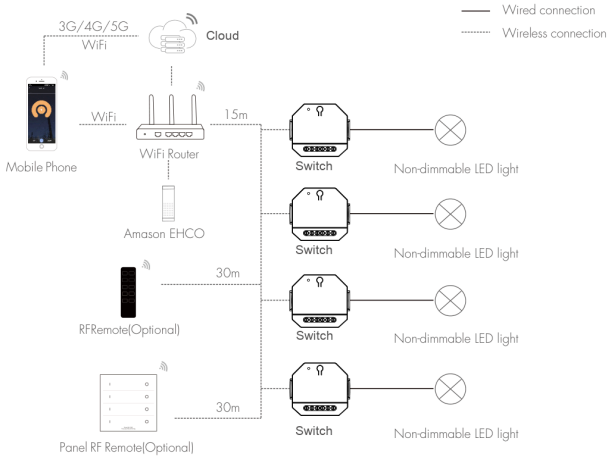
Wiring Diagram



Self reset switch:
Short press, turn on the light;
Short press again, turn off the light.

Note:
The MAX. surge current of the switch is 120A.
When connecting multiple capacitive (LED power supplies) or inductive loads, the sum of the surge currents can not exceed its maximum value.
Otherwise, long-term use may cause product damage.

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 Switch devices and router close, and check the WiFi signals.**
4. WiFi signal strength detection: open the main interface of socials, click enter the device interface, click "check device network" for testing.

APP Operating Instruction

● Download and open APP
Search for "Smart Life app" in the app store, or scan the QR code on the right to download the APP.
Register and login after installation.

● APP Pairing Network
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 flash fastly.

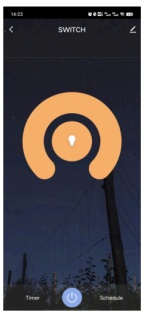
Repeat power on and off for 5 consecutive times, also clear previous network connection, enter WiFi config mode, the output LED will flash 10 times.

If Control app network connection succeed, the blue LED indicator will stop flash, and in Control app, you can find SWITCH 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.

Smart Life

APP Interface



Switch Interface
Touch on/off key to turn on or off light.
The Timer can be set to automatically turn on or off lights for the next 24 hours
The schedule can be add multiple timers to turn on or off the lights according to different times.

Switch Match RF Remote Control

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

Use the Switch's Match key

Match:
Short press match key of Switch,
immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote.

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

Use Power Restart

Match:
Power on, power off, and then 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:
Power on,power off, and then 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.

Switch Work as WiFi-RF Converter to Match Other RF Switch or Controller

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.