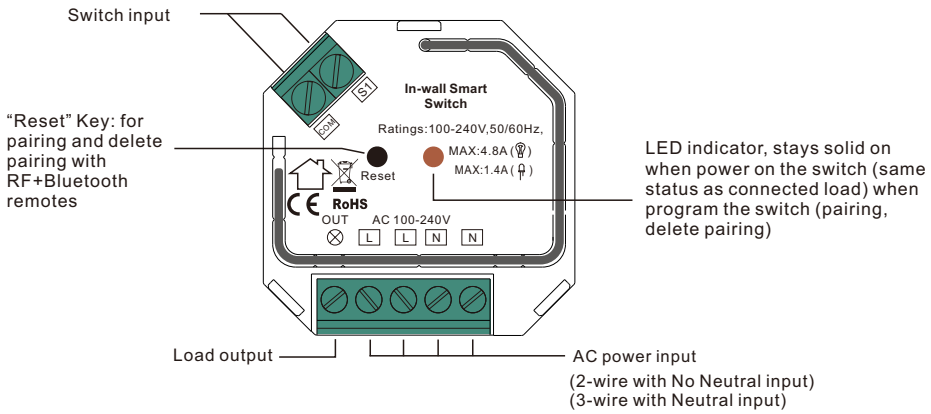
# RF+Bluetooth In Wall Smart Switch

70200052

***Important:*** *Read All Instructions Prior to Installation*

## Function introduction




## Product Data

| Input Voltage | Output Voltage | Output Current | Size(LxWxH) |
|---|---|---|---|
| 100-240VAC | 100-240VAC | Resistive load: max. 4.8A<br>Capacitive/Inductive load: max. 1.4A | 45.5x45x20.3mm |

| Compatible Load Types | | | |
|---|---|---|---|
| Load Symbol | Load Type | Maximum Load | Remarks |
| | LED lamps | 300W @ 230V<br>150W @ 110V | Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to dimmer. |
| | LED drivers | 300W @ 230V<br>150W @ 110V | Maximum permitted number of drivers is 300W divided by driver nameplate power rating. |
| | Incandescent lighting, HV Halogen lamps | 1000W @ 230V<br>500W @ 110V | |
| | Low voltage halogen lighting with electronic transformers | 300W @ 230V<br>150W @ 110V | |

## Safety & Warnings

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

- RF+bluetooth in wall switch
- Can operate under two-wire connection with no neutral lead or three-wire connection with neutral lead
- 100-240VAC Wide Input and Output Voltage
- Supports resistive loads, capacitive loads or inductive loads
- 1 channel output, max. load up to 4.8A
- Input and Output with Screw Terminals, Safe and Reliable
- Enables to control ON/OFF of connected light source
- Controlled through both smart App and remote controls, no gateway required
- Easy & quick pairing to the smart App by simply pushing the reset button, supports voice control through Alexa
- Mesh network, much longer control distance, transmits received signal to neighbor devices
- Up to 30m transmission distance between every two neighbor devices
- Encrypted two-way communication, quick status feedback, safe & reliable data transmission
- Compatible with universal RF+Bluetooth remotes, each LED controller can pair to max. 8 remotes
- Cloud control is available for remote access, works with Amazon Alexa and Google Home
- Mini Size, Easy to be Installed into a standard size wall box
- Radio Frequency : 2.4GHz
- Waterproof grade: Ip20

**Main Features:**

- Can operate under two-wire connection with no neutral lead or three-wire connection with neutral lead
- Soft start function,
- Works with various types of switches – momentary, toggle, three-way, etc.
- To be installed in wall switch boxes of dimensions allowing for installation, conforming to provisions of applicable regulations,
- The Bypass is an extension unit.

**The switch operates under the following loads:**

- Conventional incandescent and HV halogen light sources
- ELV halogen lamps (with electronic transformers)
- MLV halogen lamps (with ferromagnetic transformers)
- Compact fluorescent CFL tube lamps with electronic ballast
- Fluorescent tube lamps with electronic ballast
- Supported light sources (power factor > 0.5) with minimal power of 3W using the Bypass (depending on the type of load)

## Operation

### Pair/delete the pairing with RF+Bluetooth remote

1. Do wiring according to connection diagram.
2. Pair LED controller with RF+Bluetooth remote: please refer to the instruction of the remote that you would like to pair with.
3. Delete the pairing:
   (1) Wire up the LED controller correctly, power on.
   (2) Press and hold down the **" Reset"** button on the controller for over 3 seconds (or reset power of the device 8 times continuously if the button is not accessible to factory reset the device) until the connected light flashes, which means well deleted.

Note: factory resetting will restore all configured parameters of the device on the APP to factory default setting.

## Pair with smart APP

1. Do wiring according to connection diagram.

2. Download H2A APP from IOS APP Store or Android Google Play to your smart phone or tablet by searching "H2A". (As shown in **Figure 1**)

3. Enable Bluetooth on your smart phone or tablet. (As shown in **Figure 2**)

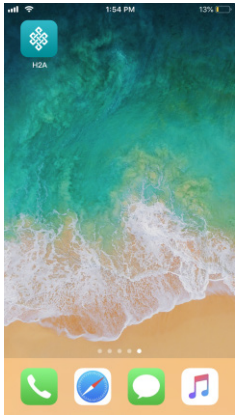



**Figure 1**

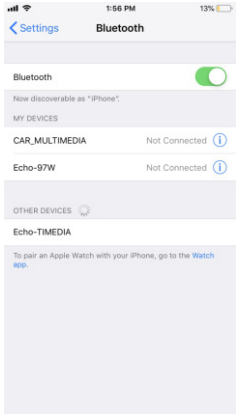



**Figure 2**

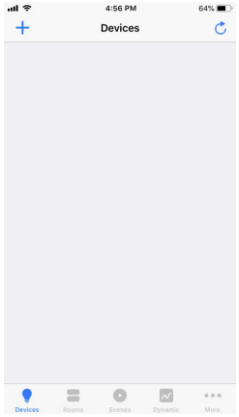



**Figure 3**

4. Run H2A APP, tap add button " + " on the APP to add device, then choose "Discover devices" to discover device, then **short press the "Reset" button on the dimmer twice** (or **reset power of the dimmer twice continuously**) to set the device into pairing to APP mode. (As shown in **Figure 3** & **Figure 4** & **Figure 5**)

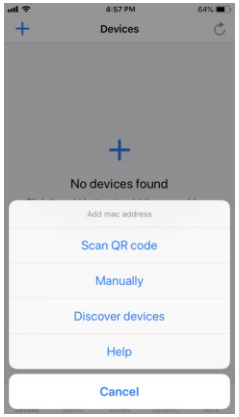



**Figure 4**

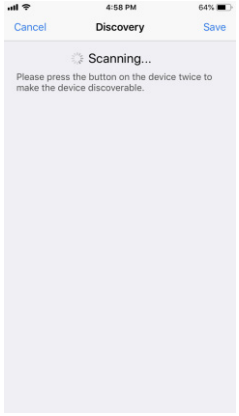



**Figure 5**

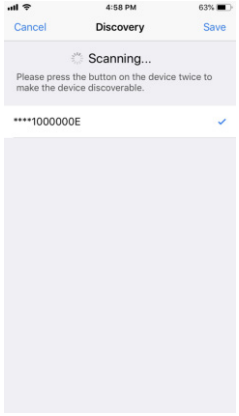



**Figure 6**

**Note:** multiple dimmers can be discovered by the APP at the same time.

5. Once the device/devices are discovered, tick the device/devices and tap "Save" button, the device/devices will be added successfully. (as shown in **Figure 6**)

## Wiring Diagram

**Compatible load types and recommended values of power for supported loads:**

| | Supported load types | 100-240V~ | |
|---|---|---|---|
| | **Resistive loads**<br>Conventional incandescent and halogen light sources | 20-1000W @ 230V<br>20-500W @ 110V | |
| | **Capacitive loads**<br>Fluorescent tube lamp (compact / with electronic ballast), electronic transformer, LED | Using Bypass:<br>3-300W @ 230V<br>3-150W @ 110V | No Bypass Used:<br>20-300W @ 230V<br>20-150W @ 110V |
| | **Inductive loads**<br>Ferromagnetic transformers | 20-300W @ 230V<br>20-150W @ 110V | |

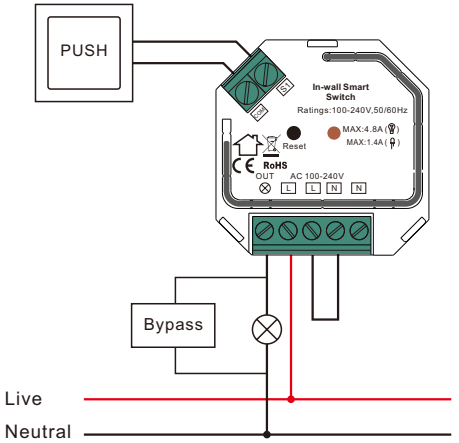
**Notes for the diagrams:**
**L** - terminal for live lead
**N** - terminal for neutral lead
**Out** - output terminal of the switch (controlling connected light source)
**S1** - terminal for switch (has the option of entering the device in inclusion/exclusion mode)
**COM** - terminal for grounding to the switch connected to the switch

**Supported external switch types (should be configured by factory setting):**

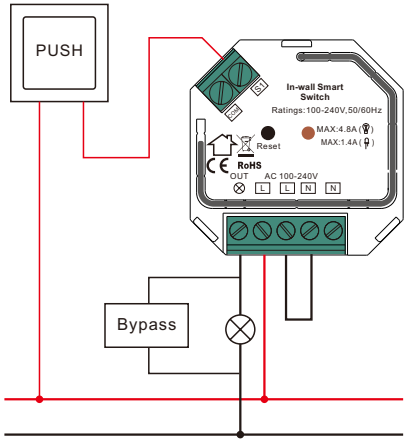
**1) Push switch** (default factory setting)
**2) Normal On/Off switch** (should be configured by factory setting upon request)

**(1) 2-Wire Connection With No Neutral Lead**

**With PUSH LV**




**With PUSH**

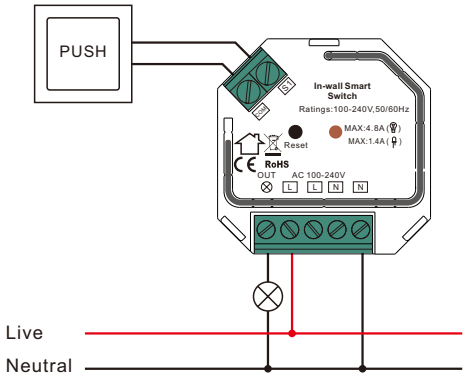



**NOTE:** Switch connected to the S1 terminal activates the basic functionality of the dimmer (turning the light on/off).

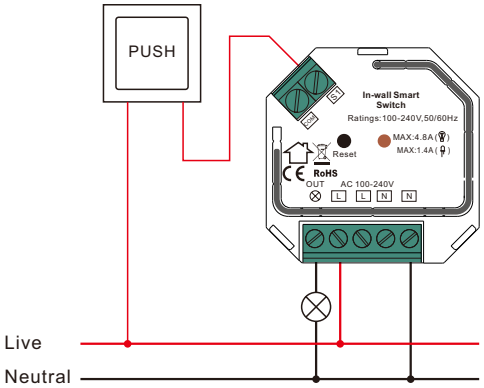
The Bypass is a device designed to work with the micro smart dimmer. It should be used in case of connecting LED bulbs or energy saving compact fluorescent lamps. The Bypass prevents flickering of the LED lights and glowing of the turned off compact fluorescent lamps. In the case of 2-wire connection, the Bypass allows to reduce minimum power of load required by the dimmer for correct operation. The Bypass provides powering of the dimmer in case of controlling the low loads of minimum power down to 3W (for cosφ>0.5).

**(2) 3-Wire Connection With Neutral Lead**

**With PUSH LV**



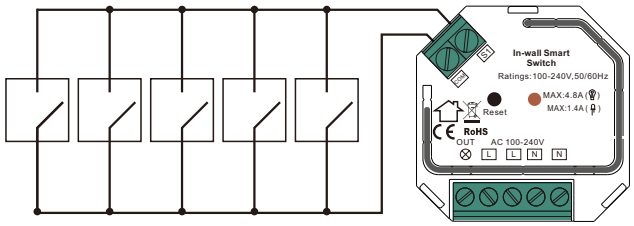

**With PUSH**




**NOTE:** Switch connected to the S1 terminal activates the basic functionality of the dimmer (turning the light on/off).

**(3) Multiple Momentary or Push Switches Connection**

**With PUSH LV**




**With PUSH**