

H2A TEQ-SB9040A-S-EN

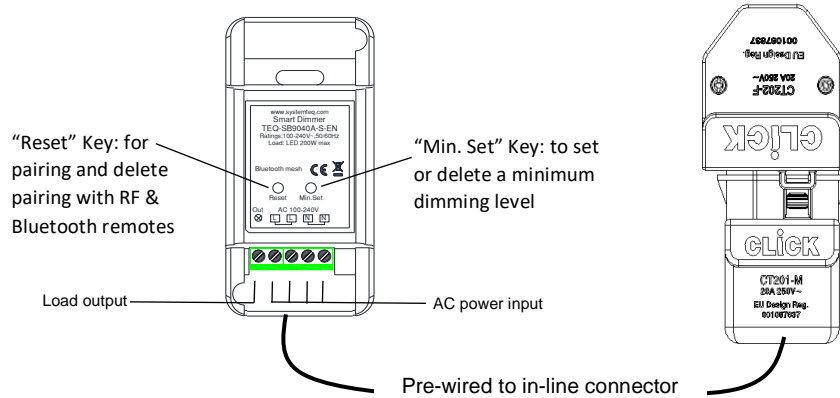
RF + Bluetooth Smart Dimmer

Bluetooth Mesh

CE FC RoHS COMPLIANT

Important: Read All Instructions Prior to Installation

Function introduction



Product Data

| | | | | | |
|-----------------------|-----------|-------------------|------------|----------------|------------|
| Radio Frequency | 2.4GHz | Input Voltage | AC100-240V | Output Voltage | AC100-240V |
| Operating temperature | 0 to 40°C | Relative humidity | 8% to 80% | Output Current | 1.8A Max |

| Compatible Load Types | | | |
|-----------------------|---|----------------------------|---|
| Load Symbol | 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. |
| | Dimmable LED drivers | 200W @ 220V 100W @ 110V | Maximum permitted number of drivers is 200W divided by driver nameplate power rating. |
| | Incandescent lighting, HV Halogen lamps | 400W @ 220V 200W @ 110V | |
| | Low voltage halogen lighting with electronic transformers | 200W @ 220V 100W @ 110V | |

Safety & Warnings

- DO NOT install with power supplied to device
- DO NOT expose the device to moisture

Main Features:

- RF + Bluetooth micro smart dimmer
- Both leading edge version and trailing edge version are available for choosing, factory default is trailing edge
- Enables to control ON/OFF and light intensity of connected load
- 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 neighbour devices
- Up to 30m transmission distance between every two neighbour 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
- Implemented algorithm of smart light source detection
- Auto-adjustment of the appropriate control mode to connected load
- Soft start function
- Memory of the last lighting level settings

As a dimmer it operates under the following loads:

- Conventional incandescent and HV halogen light sources
- ELV halogen lamps and dimmable LED bulbs (with electronic transformers)
- MLV halogen lamps (with ferromagnetic transformers)
- Dimmable LED bulbs
- Dimmable compact fluorescent CFL tube lamps

Trailing edge or leading edge dimming mode can be preset by factory setting to control following types of loads:

- "Trailing edge" for resistive loads
- "Trailing edge" for capacitive loads
- "Leading edge" for inductive loads

Note: factory default version is trailing edge.

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.

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

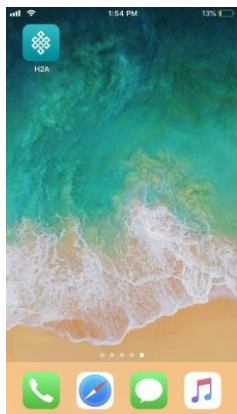


Figure 1

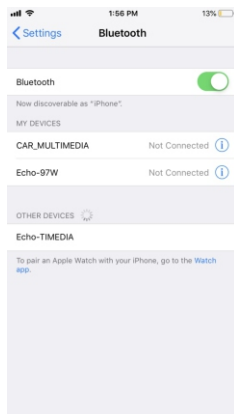


Figure 2

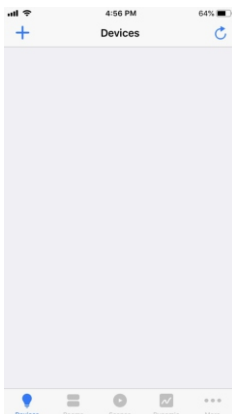


Figure 3

4. Run H2A App, tap add button “+” on the APP 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**)

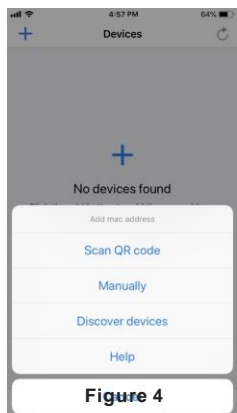


Figure 4

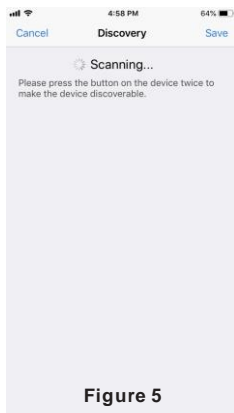


Figure 5

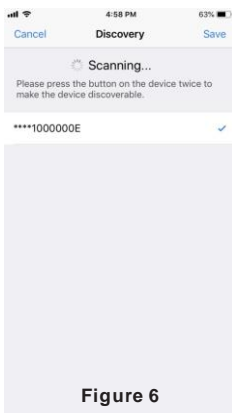


Figure 6

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

Notes for the diagrams:

L - terminal for live lead

N - terminal for neutral lead

Out - output terminal of the dimmer (controlling connected light source)




Minimum and Start-up Brightness Setting Button

Press and hold down the button for 3 seconds to set minimum brightness: when current brightness value is 1%-50%, it will be set as minimum brightness. When current brightness value is 100%, previously set minimum brightness will be deleted. Once a minimum brightness is set, the connected load cannot be dimmed below this level.

Short press the button twice to set start-up brightness: when current brightness value is 1%-50%, it will be set as start-up brightness. When current brightness value is 0%, previously set start-up brightness will be deleted.

Note: start-up brightness setting function is to avoid the phenomenon that some dimmable LED drivers can not be turned on after dimmed to a low level and turned off. Once setting a start-up brightness, if the start-up brightness is higher than dimmed level before turned off, the driver will first go to the start-up brightness after turned on then drop down to the dimmed level. If the start-up brightness is lower than the dimmed level before turned off, the driver will directly go to the dimmed level after turned on.

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

| Supported load types | | 100-240V~ | |
|---|---|---|---|
|  | Resistive loads Conventional incandescent and halogen light sources | 20-400W @ 230V 20-200W @ 110V | |
|  | Capacitive loads Fluorescent tube lamp (compact / with electronic ballast), electronic transformer, LED | Using Bypass: 3-200W @ 230V 3-100W @ 110V | No Bypass Used: 20-200W @ 230V 20-100W @ 110V |
|  | Inductive loads Ferromagnetic transformers | 20-200W @ 230V 20-100W @ 110V | |

Product Dimension

