

## Product Descriptions

### Timer Switch with Sound Sensor (No Neutral Required)

Model #: BRT-803

(Please visit our website [www.a-brt.com](http://www.a-brt.com) for more info)



#### Features:

BRT-803 is a timer switch integrated with a sound sensor. It automatically turns on the load when the sound level is above a preset threshold and keeps the load on until a delay-off time runs out. It is designed for easy installation and retrofit, directly fit into standard wall box where both hot wire and neutral wire are present.

- Loads up to 800W;
- Adjustable delay-off time from 10 seconds to 15 minutes;
- Ambient light override. Automatically measures the ambient light level, and there is no sound trigger on when brightness is above a threshold which is adjustable by end users;
- Good for all kinds of loads;
- ABS-V0 flame resistance material; and
- Classical 86 series design and high quality build.

#### Front View and Back View:

Fig. 1 and Fig. 2 show the front view and the back view of BRT-803 timer switch respectively.



**Fig. 1** Front View

**Fig. 2** Back View

The switch has a sound detector and a light detector on the front, tuning screws for setting up delay-off time and ambient light override on two sides, and terminal blocks for wiring on the back.

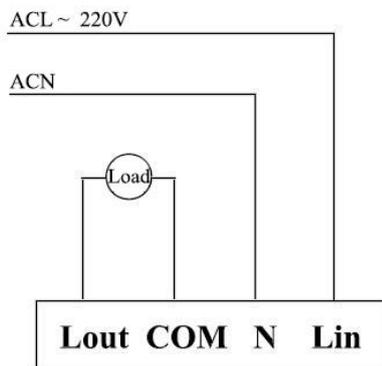
**Specification Parameters:**

Input Voltage	220~240V(50Hz/60Hz)	Operation Environment	No-condensation 20-90% RH, -20℃~40℃
Wattage	Resistive: 800W Capacitive: 5W to 400W Inductive: 5W to 400W	Load type	All Types*
Standby Power	0.5W	Sound Trigger Level	60 to 70 dB
Mounting Hole Spacing	60mm	Matching Box	75mm x 75mm x 50mm
Dimension	86mm x 86mm x 30mm	Weight	66g

**Wiring Diagram and Installation Guide:**

BRT-803 timer switch only requires both hot wire and neutral wire for installation:

- Hot wire (ACL): Coming from the power line with 220V;
- Neutral wire (ACN): Usually coming with the hot wire; and
- Load wires: Going to the load.

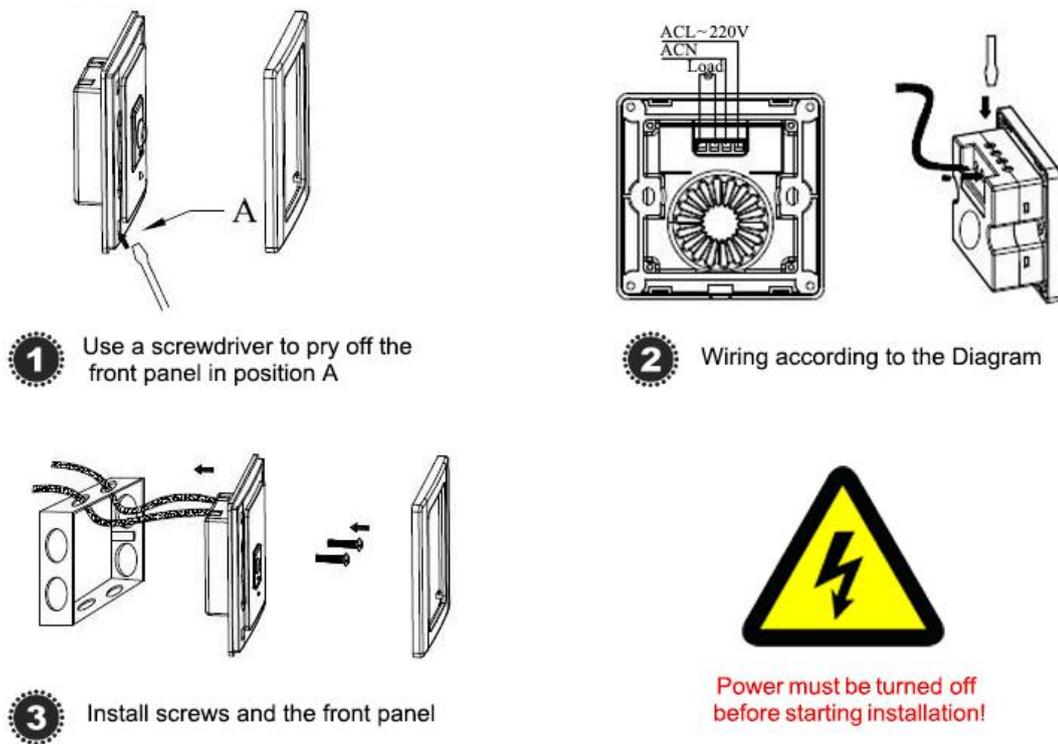


**Fig. 3** BRT-803 Wiring Diagram

**Warning:** Please make sure power is turned off before starting installation!

Fig. 3 shows the wiring diagram and Fig. 4 shows the step-by-step installation instructions. There are three easy steps:

- Step one: Use a screwdriver to pry off the front plate in position A;
- Step two: Wiring according to the diagram and the labelled ports of the switch; and
- Step three: Install screws and front plate.



**Fig. 4** BRT-803 Installation Guide

#### **BRT-803 Operation Guide:**

Once properly wired, BRT-803 timer switch needs two adjustments for the first time operation: set up the delay-off time and set up the ambient light override.

##### **1. Adjust the delay-off time**

There is a tuning screw on one side of BRT-803 timer switch. Use a crew driver to tune this screw

*Product Description of BRT-803*

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to adjust the delay-off time, as shown in Fig. 5. The delay-off time can be set from 10s to 15 minutes.



**Fig. 5** Set up Delay-off Time

## **2. Adjust the ambient light brightness threshold**

There is a tuning screw on another side of the switch. Use a crew driver to tune this screw to adjust the ambient light override threshold brightness, as shown in Fig. 6.



### *Product Description*

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## Fig. 6 Set up Ambient Light Override

Please note that BRT-803 timer switch needs 2 minute warm-up time before it can work normally. And, it is recommended that the switch not be used in noisy environment.

### **Applications:**

BRT-803 timer switch can be used for automatically turning on and turning off various loads on sound triggers. Its high power rating makes it especially suitable for larger loads.

BRT-803 timer switch has wide applications at various locations such as balcony, stairwell, washroom, and other public places. It is perfect for saving energy and bringing convenience and safety to our daily life and work.

### **How to Order:**

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