

Smart PIR Motion Remote Control

Model #: BRT-K390A

(Please visit our website www.a-brt.com for more info)

Features:

BRT-K390A is a DC occupancy sensor switch which utilizes passive infrared (PIR) sensor to detect the heat (in the form of infrared energy) from people moving within a space. It can determine when a space is occupied and turns on or turns off the loads that work with IR remote controllers. BRT-K390A replaces the traditional IR remotes to achieve smart automatic control for energy saving. Our BRT-K390A uses a proprietary signal processing technique to avoid false triggers.

- Capable of learning and memorizing infrared control codes of all kinds of appliances;
- PIR On/Off Control is set up by administrator;
- Adjustable detection sensitivity for different location or/and condition application;
- Adjustable delay-off time from 2 minutes to 60 minutes;
- Good for all kinds of appliances that have infrared control, such as air-conditioners, TVs, fans, audios, etc.
- Three way power supply mode: battery, adapter, transformer;
- ABS-V0 flame resistance material; and High quality build.
- **Front View and Back View:**

Fig. 1 and Fig. 2 show the front view and the back view of BRT-K390A PIR remote control respectively.



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Fig. 1 Front View

Fig. 2 Back View

| Work Voltage | DC5V/3V | Operation Environment | No-condensation 20-90% RH, -20℃~40℃ |
|-----------------------|----------------|--------------------------|--|
| Detection Distance | ≤8m adjustable | IR Control Distance | ≤8m |
| Dimension (max) | Φ50mm*50mm | Weight | 110g |

Specification Parameters:

Wiring Diagram:

BRT-K390A can be powered with DC5V/0.5A adapter or CR123A/3V Battery.



Fig. 3 BRT-K390A Wiring Diagram

Installation Guide:

There are two ways to install BRT-K390A PIR remote control:

- 1. When BRT-K390A is powered with battery, it can be put at any place of the room;
- 2. BRT-K390A can also be installed on the wall or corner with the installation base.



Fig. 4 BRT-K390A Installation Guide

Operation Guide:

1. Adjust Detection Sensitivity: when BRT-K390A is powered on, the indicator light will flash in red for 8 times and then flash in another color for twice(this color indicates the PIR detection sensitivity), please refer to the following look-up table for the sensitivity VS indicator light color. Rotate the fine turning screw with a screw driver to adjust sensitivity ;

| PIR Sensitivity | Light Color |
|-------------------------|-------------|
| I (highest sensitivity) | White |
| II | Purple |

| III | Blue |
|------------------------|-------|
| IV | Green |
| V (lowest sensitivity) | Red |



Fig. 5 Dip Switches and fine turning screw

2. Adjust the delay off time: The 4 dip switches are used to set the delay off time to 8 settings based on different combinations. Fig. 6 shows all the dip switches are in "off" positions. Each combination corresponds to a delay off setting.

| 0000 | delay off time = 2 minutes | |
|--------------------|-----------------------------|--|
| 1000 | delay off time = 2 minutes | |
| 0100 | delay off time = 5 minutes | |
| 1100 | delay off time = 10 minutes | |
| 0010 | delay off time = 15 minutes | |
| 1010 | delay off time = 20 minutes | |
| 0110 | delay off time = 25 minutes | |
| 1110 | delay off time = 30 minutes | |
| 0 = off and 1 = on | | |



Fig. 6 Dip Switches in 0000 Positions

(Other factory settings are available. Please talk to our sales representatives).

3. Learn the IR remote control codes: Please refer to the following steps to have BRT-K390A PIR remote control learn and memorize the IR control codes from IR remote controls sets of appliances.

- Press and hold the ON button for about 2 seconds until the light is constantly on in blue, the blue light will keep on for about 15 seconds. Please learn the code within this 15 seconds, or code learning fails.
- b. Point the regular IR remote control kit of appliance to the PIR lens, and start to press"ON" button of the IR remote control kit. If the buzzer of the Air Conditioner sounds "Dee" for twice and the indicator light flash in green for 3 times, it means learning code successfully. If indicator light flash in red for 3 times, it means code learning fails.Pls relearn the code according to the above process.
- c. After the indicator light flash in green for 3 times, please short press the ON button within 15 seconds to save the code. If fail to save the code, you must relearn the code according to above steps.
- d. After saving the "ON" code, please follow the above steps to learn and save the "OFF" code.
- e. If both the "ON" code and "OFF" code are learned successfully, you can turn on/off the air conditioner with the "ON" and "OFF" button of the PIR.

4. **Delete the IR remote control codes:** Press the "ON" or "OFF" code, the light will be constantly on in blue, release the button after the light flashes 6 timers and the IR codes are deleted successfully.

5. Set Administrator Mode(if powered with battery, this mode is not recommended): The PIR is set to administrator mode at factory and the DIP switch 4 is set in "off" position. Users can control the on/off of PIR function. Only when administrator turn on the PIR function, can it begin to detect movement and turn on the air conditioner automatically.

When set the DIP switch 4 in "on" position, it is change to auto control mode. After a 2-min warm up time(when warm up time count down to the last 30S, the LED will illuminate in purple). The PIR will keep detecting movement, and turn on air conditioner whenever movement detected.

Applications:

BRT-K390A PIR remote control can be used for automatically turning on/off various loads which use IR remote controls, such as lights, fans, appliances, or other kinds of electrical equipment. They are perfect for saving energy and bringing convenience and safety to our daily life and work.

Our BRT-K390A has applications in a wide range of fields, including hotels, warehouses, offices, hospitals, etc., replacing the traditional IR remotes to achieve smart automatic control. *Product Description of BRT-K390A* Page 5 of 5 Shenzhen Asia Bright Co., Ltd. Floor 2nd~3rd, Building E, North Area No.2 of Shangxue Science Park, Bantian, Shenzhen, China <u>www.a-brt.com</u>. <u>sales@a-brt.com</u>. © 2022 All rights reserved. Subject to change without notices.

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