US Style Wall Mount PIR On/Off Switch

Model #:   **BRT-370**

▶ Features:

BRT-370 is a wall mount 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 automatically. It has an advanced micro controller unit and uses a proprietary signal processing technique to avoid false triggers.

- Instant on and adjustable delay off time from 30 seconds to 120 minutes;
- Ambient light sensitivity level adjustable;
- PIR sensitivity level adjustable;
- Easy installation into the wall;
- Load power up to 600W;
- Good for all kinds of loads (resistive, capacitive, and inductive);
- ABS-V0 flame resistance material; and
- High quality build and ETL approved

Fig. 1 and Fig. 2 show the front view and the back view of the BRT-370 PIR occupancy sensor switch respectively.

Product Description of BRT-370
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Fig. 1   Front View   **Fig. 2**   Back View

▶ **Specification Parameters:**

Input Voltage	108V to 240V(45~65Hz)	Operation Environment	No-condensation 20-90% RH，-20℃ to 40℃
Wattage	600W max for incandescent; 150W max for led light	Load type	All Types
Dimension (max)	120mm x 70mm	Working Range	Up to 8m (@25℃) in a cone of 120 degrees

▶ **Wiring Diagram and Installation Guide:**

BRT-370 PIR sensor switch requires both hot wire and neutral wire for installation:

Hot wire (ACL):   Coming from the power line with 120V;

Neutral wire (ACN):   Usually coming with the hot wire; and
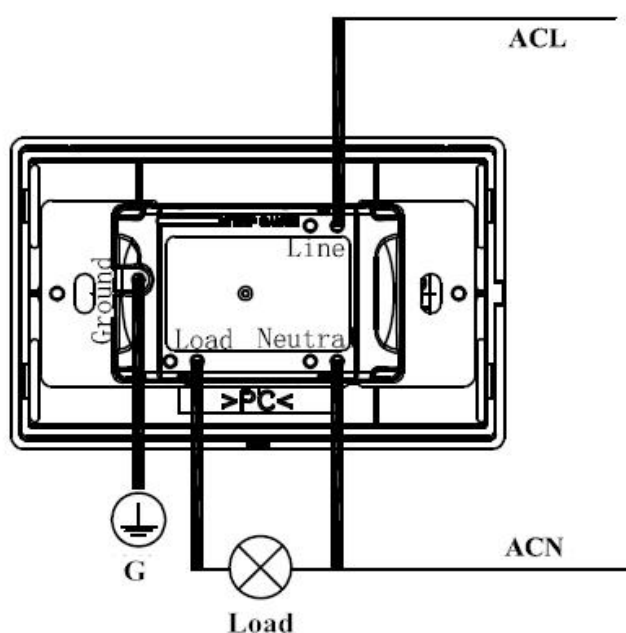
Load wire: Going to the load.

Fig. 3   BRT-370 Wiring Diagram

Fig. 3 shows the wiring diagram. Wiring must be done according to the diagram and the labeled ports of the switch.

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

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;

Step two: Wiring according to the diagram and the labelled ports of the switch; and
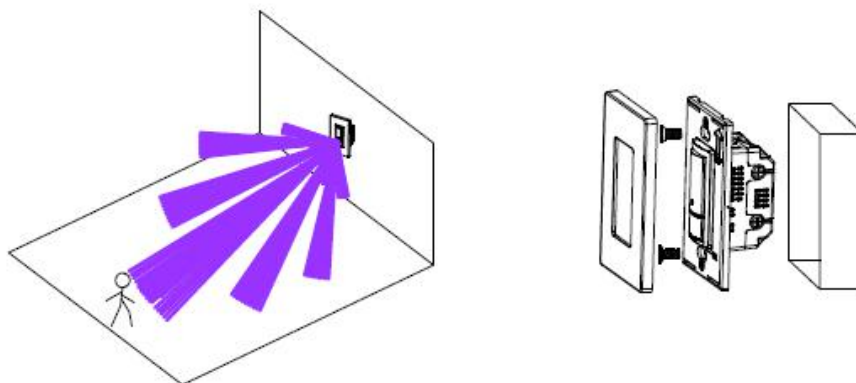
Step three: Install screws and front plate.

Fig. 4   BRT-370 Installation Diagram

Cautions:

1. Avoid mounting the sensor switch close to air vents, as the vibration and air flow can reduce the effectiveness of the sensor switch;

2. Avoid installing the sensor switch in an electrical circuit which has other frequent on/off switch or appliance, as those on/off actions could cause false triggers.

▶ **Operation Guide:**

1. The blue indicator will flicker 3 times after being powered on, and the initialization process needs 30 seconds. In normal operation mode, the switch will turn on the load automatically when it detects human motion and turn off the load after a preset delay-off time when it detects no human motion. User can turn on/off the load using the On/Off button. The preset delay-off function is still in effect if the load is turned on by manual operation.

2. Adjust ambient light sensitivity level: Press the On/Off button 5 times and the led indicator flickers. The flickering times represent different ambient light sensitivity levels as shown in the table below. Pressing the On/Off button will change ambient light sensitivity settings (cycle through different levels). If there is no operation for 5 seconds, the last value of ambient light sensitivity level will be saved automatically and the blue

indicator will stay on for 2 seconds and then go off.

3.

Ambient Light Sensitivity Level	Indicator Flickering Times
Level 1-Level 7 : 1 for the lowest sensitivity (brightest ambient light);	1-7 Times respectively

4. Adjust PIR sensitivity level: Press the On/Off button 4 times and the led indicator flickers. The flickering times represent different PIR sensitivity levels as shown in the table below. Pressing the On/Off button will change PIR sensitivity settings (cycle through different levels). If there is no operation for 5 seconds, the last value of PIR sensitivity levels will be saved automatically and the blue indicator will stay on for 2 seconds and then go off.

PIR Sensitivity Level	Indicator Flickering times
Level 1-Level 7 : 1 for the lowest PIR sensitivity;	1-7 Times respectively

5. Adjust delay-off time: Press the On/Off button 6 times and the led indicator flickers. The flickering times represent different delay-off time as shown in the table below. Pressing the On/Off button will change different delay-off time (cycle through different values). If there is no operation for 5 seconds, the last value of different delay-off time will be saved automatically and the blue indicator will stay on for 2 seconds and then go off.

6. Quick pressing the button for 6 times and the led indicator flickers. The flickering frequency represents different delay off time as shown in below table. Short pressing the button can cycle the different preset delay off time. If there is no operation for 5 seconds or longer time, the last value of delay off time will be saved automatically and the blue indicator will be on for 2 seconds and then go off.

Delay-Off Time	Indicator Flickering Times
30 seconds	Once
1 minute	Twice
5 minutes	Three Times
15 minutes	Four Times
30 minutes	Five Times
60 minutes	Six Times
120 minutes	Seven Times

Applications:

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BRT-370 ceiling mount PIR occupancy sensor can be used for automatically turning on and/or turning off various loads 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.

They have wide applications at various locations such as stairwells, corridors, washrooms, offices, homes, schools, laboratories, hospitals, offices, etc.

▶ How to Order:

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