PIR Occupancy Sensor Switch
(No Neutral Required)

Model #:   A-100R

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

▶ Features:

A-100R is an 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 is designed for easy installation and retrofit, directly fit into standard wall box with no need for the neutral.

- Very cost effective;
- Delay-off time from 20 seconds to 40 seconds preset at factory (custom settings available);
- Ambient light override. Automatically measures the ambient light level, and there is no trigger on above a light level preset at factory;
- Good for all kinds of loads (an additional adapter required for capacitive lights such as CFL);
- 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 the A-100R PIR occupancy sensor switch respectively.

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Fig. 1   Front View   **Fig. 2**   Back View

▶ **Specification Parameters:**

Input Voltage	220～240V(50Hz/60Hz)	Operation Environment	No-condensation 20-90% RH，-20℃～40℃
Wattage	100W	Working Distance	3m to 5m
Mounting Hole Spacing	60mm	Matching Box	75mm x 75mm x 50mm
Dimension	86mm x 86mm x 43mm	Weight	72g

▶ **Wiring Diagram and Installation Guide:**

A-100R occupancy sensor switch only requires two wires for installation:

      Hot wire (ACL):   Coming from the power line with 220V; and

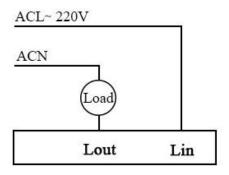   Load wire: Going to the load.
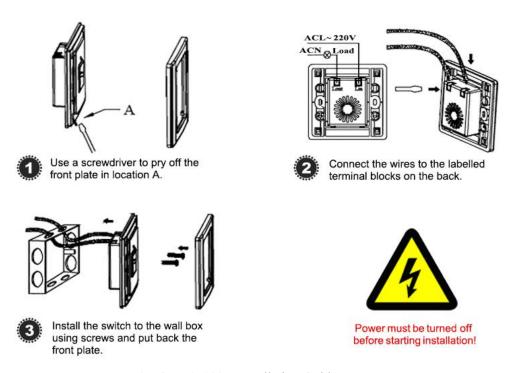

Fig. 3   A-100R Wiring Diagram

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   A-100R Installation Guide

Warnings:

1.   Please make sure power is turned off before starting installation!

2.   Load shorting or using a load with a power rating higher than the specified wattage of the sensor switch is prohibited.

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.

▶ A-100R Operation Guide:

A-100R PIR occupancy sensor switch needs a warm-up time about two minutes before it can operate properly. Please note that the switch has ambient light override, so it is normal that the switch does not turn on the load in a place where there is bright daylight.

There is a tiny standby current going through the switch when the load is off.

▶ Applications:

A-100R PIR occupancy sensor switch can be 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, conference rooms in homes, schools, laboratories, hospitals, offices, etc.

▶ How to Order:

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