

PIR SENSOR

Users' Manual

MODEL: HC-7C

Brief Introduction

HC-7C sensor switch can detect the Infrared Rays released by human body motion within the detection area, and then start the load – light automatically. This unit is designed to use with Incandescent light (indoor use only). Please read this manual carefully before installation, and retain it for future use.

Positioning the Unit

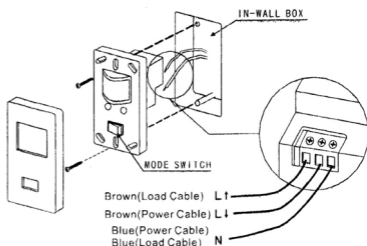
Please take the following factors into consideration when selecting installation position for HC-7C sensor switch:

1. The installation of HC-7C sensor switch is as easy as that of ordinary in-wall switch.
2. In order to avoid false triggering, the unit should not be positioned close to heat sources as air – conditioners, flues and strong electromagnetic disturbance areas.
3. Avoid pointing at bright objects, otherwise, PIR sensor will not function when setting LUX control level at dark position (☾).
4. The detection range varies slightly when positioning height and place changed. And also the detector is more sensitive to motion across the front of the sensor than to motion towards the sensor.

Installation

Before installation, make sure all power supply cables are isolated by switching off and/or removing the relevant fuse.

1. The unit should be installed by qualified electrician according to IEC wiring regulation.
2. Remove the front cover of the sensor.
3. Connect power cable and load cable to the terminal block (wiring regulation: rigid cable 0.5 mm²).
4. Fix the unit to the in-wall box with supplied screws.
5. Refit the front cover.



Control Setting

Set the switch model to the state of 'AUTO'

1. Switch on the power to warm up PIR sensor, if setting TIME control at position (-), and not receiving any effective signal, the load – light will turn off automatically after 30s (generally within 60s), Then the sensor will enter into automatic detection state.
2. Set LUX control to position (☀), once PIR sensor detects effective signal (e.g. human body motion), load – light will be started immediately and remain switched on for a preset period. After several adjustments, you can fix the proximate detection range.
3. Set your desired Time – delay by revolving the TIME knob to a proper position.
4. Set the ambient luminosity in which you wish the load – light on by revolving the LUX knob to a proper position.

Adjustment

1. Adjust the Time – delay: the length of time that load – light remains switched on after activation can be adjusted continuously from (10±5) seconds to (4±1) minutes. Position (-) indicates the minimum length.

Note: Once the load – light has been started by PIR sensor, any subsequent detection will start the Time – count again from the beginning.

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2. Adjust the LUX control level: there is a built – in photo – cell (CDS) inside the PIR sensor; it detects the change of ambient luminosity. The ambient luminosity in which PIR sensor may start load – light can be adjusted continuously from daytime to darkness by revolving LUX knob.

Sign (☀) indicates that load – light will be switched on during daytime and night (darkness.)

Sign (☾) indicates that load – light will be turned on only at night (darkness).

Adjust this knob according to your needed ambient luminosity.

Selection of Switch Model

OFF : Load – light always keep switched off.

ON : Load – light always keep switched on.

AUTO : PIR sensor start the load – light when effective signal is detected and load – light switch off automatically in a preset period when effective signal is no longer detected.

Warning

1. Not suitable for use with dimmer switch.
2. Do not try to modify the unit, there is no user serviceable components inside.
3. In order to ensure PIR sensor function effectively, it is suggested to clean dust from the lens with wet soft cloth every three – month.

Technical Data

1. Voltage : 230VAC, 50Hz.
2. Fuse Type : 3A/250VAC, 125°C.
3. Load Wattage : Max. 300W Incandescent Bulb, Max. 150W Fluorescent Lamp.
4. Detection Area : Max. 8 meters.
5. Detection Angle : Max. 90°
6. Time – delay : From (10±5) seconds to (4±1) minutes adjustable.
7. LUX Control Level : From daytime to darkness adjustable.
8. Protection Class : IP20