

# Ceiling Light with PIR Sensor

## Users' Manual

MODEL: HC – 25A

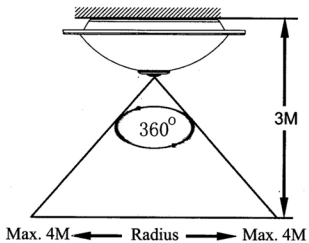
### Brief Introduction

HC – 25A (Ceiling Light with PIR Sensor) can detect the Infrared rays released by human motion within the detection area, then start the load – light automatically. The unit is for 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 Ceiling light HC – 25A:

1. To get optimum performance, the unit is suggested to be installed 2.5 to 3 meters high (above the ground) on the ceiling.
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 around the sensor than to motion towards or away from the sensor.



### Installation

Before installation, make sure that 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. Unscrew the plastic screw nut, remove the glass lampshade.
3. Mark the mounting position on the ceiling with the bottom plate, drill holes in the marked position and fill it with dilatable plastic screws (supplied).
4. Connect power cable to the corresponding position through the rubber ring in the center of the bottom plate. (power cable : 3G, 0.75mm<sup>2</sup> flexible cable)
5. Install two incandescent bulbs (E27), with Max. Load wattage 25W respectively.
6. Fix the bottom plate to the ceiling with supplied screws, refit the glass lampshade and lock it with plastic screw nut.

After installation, you are suggested to adjust HC-25A (ceiling light with PIR Sensor) to your desired work state.

### Control Setting

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 in 30 seconds (generally within 60 seconds), the sensor will enter into automatic detection state.
2. Revolve LUX control knob to position ( ☼ ), once PIR sensor detects any 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 area.
3. Set your desired Time – delay by revolving the TIME knob to a proper position.

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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 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.

2. Adjust the LUX control level: there is a built-in a 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.

### 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. When replacing the bulb(s), the unit must be powered off and cooled.
4. 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 : 230V AC, 50Hz.
2. Load Wattage : Max. 2x25W Incandescent Bulb, max. 2x9W Fluorescent Lamps.
3. Detection Area : Max. 4 meters radius.
4. Detection Angle : 360° around.
5. Time – delay : From (10±5) seconds to (4±1) minutes adjustable.
6. LUX Control Level : From daytime to darkness adjustable.
7. Protection Class : IP 20