## Problem shooting

**The lighting devices does not work:**

**a)** Please check if the connection of power source and if lighting device is correctly installed.
**b)** Please check if the lighting device is in good condition.
**c)** Please check if the settings of working light correspond to ambient light.

**The sensitivity is poor:**

**a)** Please check if there is any hindrance in front of the detector to affect it to receive the signals.
**b)** Please check if the ambient temperature is too high.
**c)** Please check if the induction signal source is in the detection field.
**d)** Please check if the installation height corresponds to the height required in the instruction.
**e)** Please check if the moving orientation is correct.

**The sensor can not shut off the light device automatically:**

**a)** Please check if there is continual signal in the detection field.
**b)** Please check if the time delay is set to the maximum position.
**c)** Please check if the power corresponds to the instruction.

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# IP201
# Infrared motion sensor

**Welcome to usen IP201 Infrared motion sensor !**

The product is a new saving-energy switch; it adopts good sensitivity detector, integrated circuit. It is idealy used to control the status of the lamp. The wide detection field is consisting of detectors. It works by receiving human motion infrared rays. When one enters the detection field, it can start the function at once and automatically identify day and night.

## Technical specification

| | |
|---|---|
| **Power Source:** | 220-240V AC 50 /60 Hz |
| **Ambient Light:** | <3-2000 LUX (adjustable) |
| **Time Control:** | Min. 10sec+3sec<br>Max.30min+2min |
| **Rated Load:** | Max.2000W (Incandescence, Halogen Light)<br>Max.1000W (Fluorescence, LED Light, Energy saving lamp) |
| **Detection Moving Speed:** | 0,6-1,5m/s |

| | |
|---|---|
| **Detection Range:** | 360° |
| **Detection Distance:** | 4m x 20m max. (<24℃) |
| **Working Temperature:** | -20~+40℃ |
| **Working Humidity:** | <93% RH |
| **Power Consumption:** | 0,5W |
| **Installation Height:** | 4 - 10m |
| **IP Class:** | IP20 |

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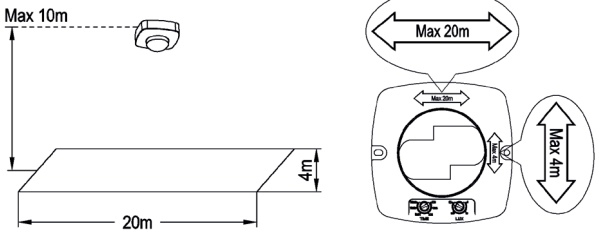
## Detection range

It is recommended to install at the height of 10m. The detection range is up to a rectangle size of 4m x 20m.







## Function

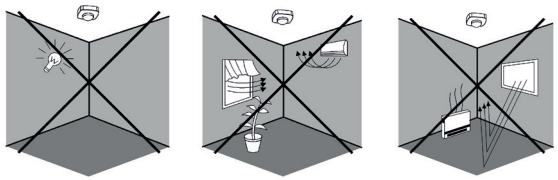
- It can identify day and night: consumer can adjust working state in different ambient light. It can work in the daytime and at night when it is adjusted on the "sun" position (max). It can work in the ambient light less than 3 LUX, when it is adjusted on the "3" position (min). As for the adjustment pattern, please refer to the testing pattern.

- Time-control is added continually: when it receives the second induction signals within the first induction, it will restart to time from the moment.

## Installation advice

As the detector responds to changes in temperature, avoid the following situations:

- Avoid pointing the detector towards objects with highly reflective surfaces, such as mirrors etc.
- Avoid mounting the detector near heat sources, such as heating vents, air conditioning units, light etc.
- Avoid pointing the detector towards objects that may move in the wind, such as curtains, tall plants etc.



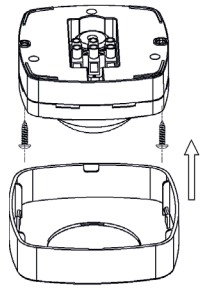
**WARNING**

**Danger of death through electric shock!**

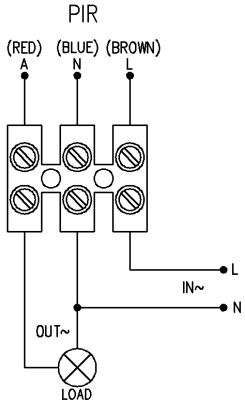
- Must be installed by professional electrician.
- Disconnect power source before installation.
- Cover or shield any adjacent live components.
- Ensure device cannot be switched on.

## Installation

- Unload the cover directly.
- Connect the power and the load into the connection-wire column of the sensor according to connection-wire diagram.
- Fix the sensor on the selected position with the inflated screw as the figure on the right.
- Install back the cover and then you can test it.



## Connection-wire diagram

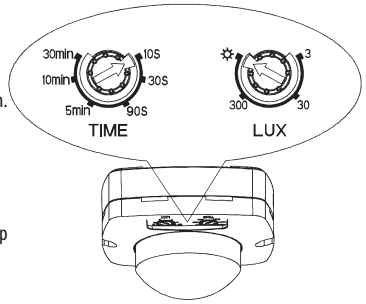



## Test

- Turn the TIME knob anti-clockwise to the minimum (10s); turn the LUX knob clockwise to the maximum (sun).

- Switch on the power; the sensor and its connected lamp will have no signal at the beginning. After Warm-up 30sec, the sensor can start work. If the sensor receives the induction signal, the lamp will turn on. While there is no another induction signal any more, the load should stop working within 10sec ± 3sec and the lamp would turn off.

- Turn LUX knob anti-clockwise on the minimum (3). If the ambient light is more than 3 LUX, the sensor would not work and the lamp stop working too. If the ambient light is less than 3 LUX (darkness), the sensor would work. Under no induction signal condition, the sensor should stop working within 10sec ± 3sec.




**When testing in daylight, please turn LUX knob to (SUN) position, otherwise the sensor lamp could not work! If the lamp is more than 60W, the distance between lamp and sensor should be 60 cm at least.**