

# ST38

## Infrared Motion Sensor



## Instruction

### Welcome to use ST38 infrared motion sensor!

The product adopts good sensitivity detector and integrated circuit. It gathers automatism, convenience, safety, saving-energy and practical functions. It utilizes the infrared energy from human as control-signal source and it can start the load at once when one enters detection field. It can identify day and night automatically. It is easy to install and used widely.

### SPECIFICATION:

Power Source: 110-240V/AC	Detection Range: 180°
Power Frequency: 50/60Hz	Detection Distance: 12m max(<24°C)
Time Delay: Min.10sec±3sec	Ambient Light: <3-2000LUX
Max.10min±2min	Working Temperature: -20~+40°C
Rated Load: Max.1200W (220-240V/AC)	Working Humidity: <93%RH
800W (110-130V/AC)	Po Consumption: approx 0.5W
300W (220-240V/AC)	Inst ation Height: 1.8-2.5m
200W (110-130V/AC)	Det ion Moving Speed: 0.6-1.5m/s

### FUNCTION :

- Can identify day and night: The 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 3LUX when it is adjusted on the "moon" position (min). As for the adjustment pattern, please refer to the testing pattern.
- Time-Delay is added continually: When it receives the second induction signals within the first induction, it will restart to time from the moment.



Good Sensitivity



Poor Sensitivity



### 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!**

● Cover or shield any adjacent live components.

● Ensure device cannot be switched on.

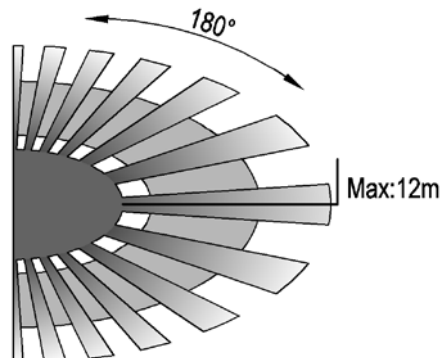
● Check power supply is disconnected.

- Figure 1

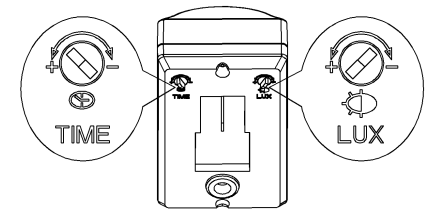
(See the right figure)

A diagram showing a fire hose nozzle at a height of 1.8-2.5m. The nozzle is directed towards a target area on the ground, which is 12m horizontally from the base of the nozzle. The target area is depicted as a shaded, elongated shape on the ground.

The diagram shows a three-core cable with conductors labeled L (Brown), N (Blue), and PE (Red). The L and N conductors are connected to a terminal block. The PE conductor is connected to a ground symbol, which is represented by a circle with a cross inside.



- Turn the LUX knob anti-clockwise to the maximum (+). Turn the TIME knob clockwise to the minimum (-).
- 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 is not working, the lamp will turn on. While there is no another induction sensor working within  $10\text{sec} \pm 3\text{sec}$  and the lamp would turn on.
- Turn LUX knob clockwise on the minimum (moon). If the sensor is not working, the lamp would not work. Under 3LUX (darkness), the sensor would work. Under 3LUX, the lamp should stop working within  $10\text{sec} \pm 3\text{sec}$ .



**SOME PROBLEM AND SOLVED WAY:**

- The load does not work:
  - a. Please check if the connection of power source and load is correct.
  - b. Please check if the load is good.
  - 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 load 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