

# ST34

## Infrared Motion Sensor



## Instruction

### Welcome to use ST34 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

Power Frequency: 50/60Hz

Time Delay: 5s, 1min, 5min, 8min (choice)

Rated Load: Max.1200W(220-240V/AC)

800W (110-130V/AC)

300W (220-240V/AC)

200W (110-130V/AC)



Detection Range: 120°

Detection Distance: 9m max(<24°C)

Ambient Light: 10LUX/2000LUX (choice)

Working Temperature: -20~+40°C

Working Humidity: <93%RH

Power Consumption: approx 0.5W

Installation Height: 1-1.8m

Detection Moving Speed: 0.6-1.5m/s

### **FUNCTION:**

- Can identify day and night automatically: When it is adjusted on "DES" position, It can work in the daytime and at night; when it is adjusted on the "LIG" position, It can work in the ambient light less than 10LUX.
- Time-Delay is added continually: When it receives the second induction signals within the



first induction, it will restart to time from the moment.



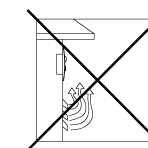
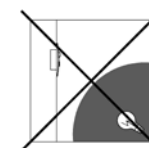
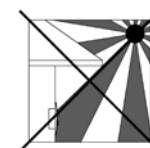
Good Sensitivity  
Sensitivity

Poor

### **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.



### CONNECTION:

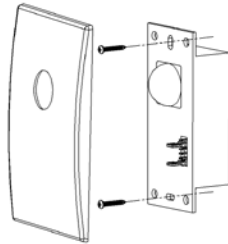


#### WARNING

##### Warning. Danger of death through electric shock!

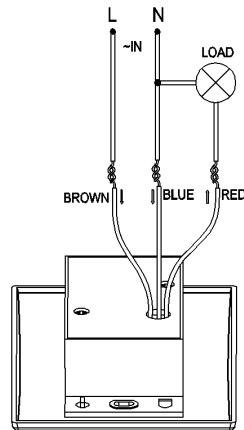
- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shield any adjacent live components.
- Ensure device cannot be switched on.
- Check power supply is disconnected.

- Remove the cover directly.
- Connect the power wire with the sensor according to connection-wire diagram.
- Install the sensor on the selected position with the inflated screw.
- Switch on the power then test it.



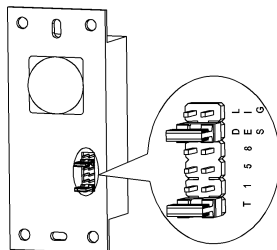
### CONNECTION-WIRE DIAGRAM:

(See right figure)



### TEST:

- Switch on the power, the sensor has been entered into detection function.
- Chart on the right show the adjusting button, the two strips control the operation of the product. When you insert one of the strips into the position of DES, it means work all day, when you insert into the position of LIG; it means only



work at night. The first row marked 'T' means the minimum time delay 5s, the second row marked '1' means the time delay 1min, the third row '5' means the time delay 5 min, and the fourth row is the maximum time delay 8 min.

- Insert one strip into the DES location, the other insert into 'T' position. After Warm-up 30sec, the indicator lamp turns on, this means it can work normally.
- If the test above is normal, you can adjust to use it according to your need.

**NOTE: When testing in daylight, please choose the slip stitch in the DES position, Otherwise the sensor lamp could not work! If the lamp is more than 60W, the distance between lamp and sensor should be 60cm at least.**

### 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
  - c. Please check if the power corresponds to the instruction.