ELCOP

ST15

Infrared Motion Sensor

Instruction

Welcome to use ST15 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: 220-240V/AC   Detection Range: 180°

Power Frequency: 50/60Hz   Detection Distance: 12m max(<24℃)

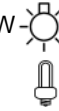Ambient Light: <3-2000LUX (adjustable)   Working Temperature: -20~+40℃

Time Delay: Min.10sec±3sec   Working Humidity: <93%RH

    Max.15min±2min   Power Consumption: approx 0.5W

Rated Load: Max.1200W   Installation Height: 1.8-2.5m

   300W   Detection 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 "3" 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.
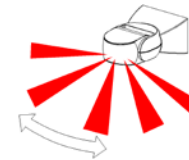
Good sensitivity   Poor sensitivity
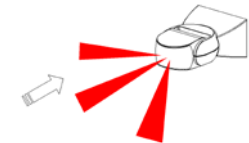
INSTALLATION ADVICE:

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.

CONNECTION:

WARNING

⚠️ **Warning. Dang[er]**
- ● Must
- ● Disconnect power source.
- ● Cover or shied any adjacent live components.
- ● Ensure device cannot be switched on.
- ● Check power supply is disconnected.

➤ Loosen the screw on the bottom and unload the bottom (refer to the figure1).

➤ Pass the power wire through the hole with gasket in the bottom. Connect the power wire into connection-wire column according to the connection-wire diagram.

➤ Fix the bottom with inflated screw on the selected position (refer to the figure2).

➤ Install back the sensor on the bottom, tighten the screw and then test it.
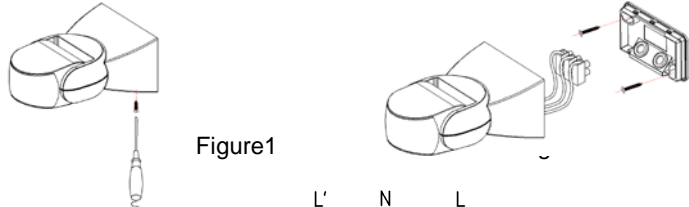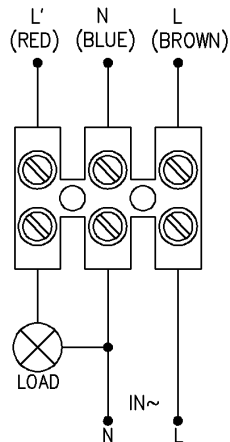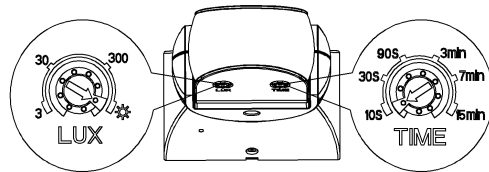
Figure1

CONNECTION-WIRE DIAGRAM:

(See the right figure)

L′ (RED) N (BLUE) L (BROWN)

LOAD

IN~

N   L

TEST:

➤ Turn the LUX knob clockwise on the maximum (sun).Turn the TIME knob anti-clockwise on the minimum (10s).

LUX   TIME

➤ 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 3LUX, the sensor would not work and the lamp stop working too. If the ambient light is less than 3LUX (darkness), the sensor would work. Under no induction signal condition, the sensor should stop working within 10sec±3sec.

Note: when testing in daylight, please turn LUX knob to ☼ (SUN) position, otherwise the sensor lamp could not work!

SENSOR INFORMATION:

Height of installation: 1.8-2.5m   Detection Distance: Max.12m
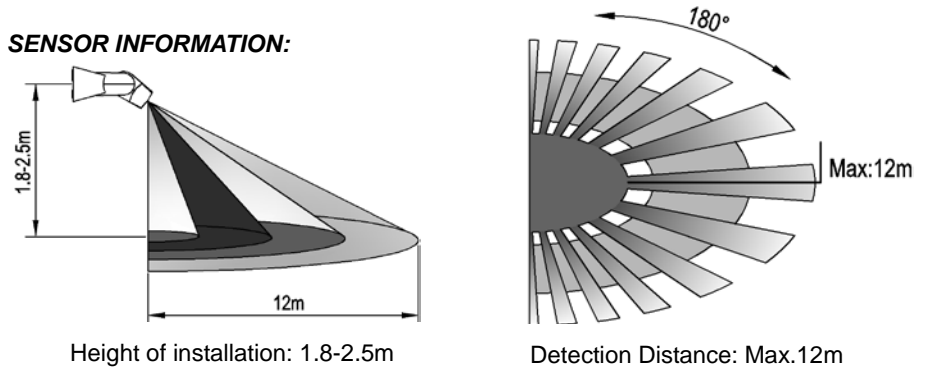
SOME PROBLEM AND SOLVED WAY:

➤ 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