

# SPARKELEC ST19

## Infrared Motion Sensor



MANUAL OVERRIDE

IP66

LANX Australis Infrared Motion Sensor!

The LXS2000 is a unique Infrared Motion Sensor that utilizes a carefully integrated circuit to detect infrared energy. The Sensor includes USER FRIENDLY functions.

### SPECIFICATION:

Power Source: 220-240V/AC

Power Frequency: 50/60Hz

Time Delay: Min.10sec±3sec

Max.30min±2min

Rated Load: Max.2000W 

1000W

LED 150w MAX

Detection Moving Speed: 0.6-1.5m/s

Detection Range: 120°

Detection Distance: 6-18m(<24°C)(adjustable)

Ambient Light: <3-2000LUX

Working Temperature: -20~+40°C

Working Humidity: <93%RH

Power Consumption: approx 0.5W

Installation Height: 1.8-2.5m

### 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.
- SENS adjustable: It can be adjusted according to using location. The detection distance of high sensitivity could be 18m max.
- Time-Delay is added continually: When it receives the second induction signals within the first induction, it will restart to time from the moment.

### MANUAL OVERRIDE FUNCTION:

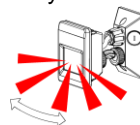
1. Sensor mode → Stay on

Now switch wall switch OFF-ON, OFF-ON twice within 3seconds. The sensor will now hold your light ON continuously just likes a normal light.

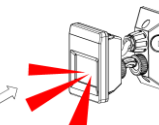
2. Stay on → Sensor mode(The following either method is ok)

1).Switch your wall switch OFF, then switch ON after 0.3seconds.

2). If the light left ON (not change the sensor to sensor mode by hand), the sensor itself will also automatically return to the sensor mode after 8hours.



Good Sensitivity



Poor Sensitivity

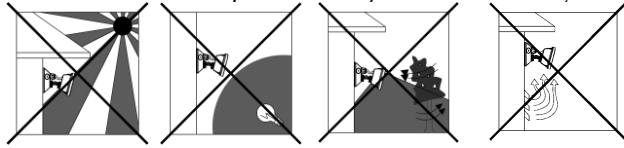
### INSTALLATION ADVICE:

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:

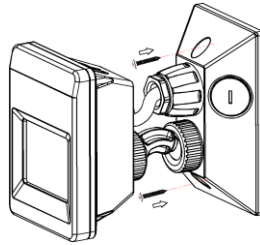


**WARNING**

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

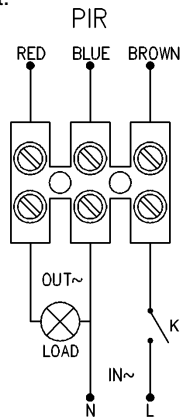
- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shield any adjacent live components.
- Ensure device cannot be switched on.
- Check power supply is disconnected.

- Connect the power wire with the sensor according to the connection-wire diagram.
- Fix the sensor with inflated screw on the selected position on the wall.
- Switch on the power and test it.

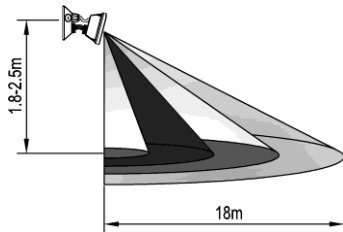


### CONNECTION-WIRE DIAGRAM:

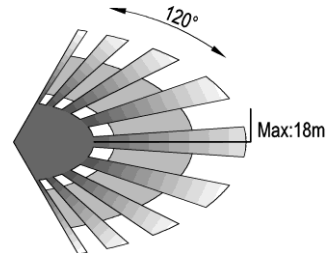
(See the right figure)



### SENSOR INFORMATION:



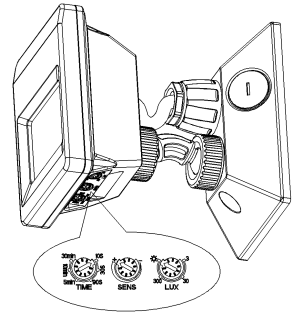
Height of installation: 1.8-2.5m



Detection Distance: Max.18m

### TEST:

- Turn the SENS knob on the maximum (+). Turn the LUX knob to the maximum (sun). Turn the TIME knob to the minimum (10s).
- 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 other induction signal any more, the load should stop working within  $10\text{sec} \pm 3\text{sec}$  and the lamp would turn off.
- Turn LUX knob 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  $10\text{sec} \pm 3\text{sec}$ .



**Note: when testing in daylight, please turn LUX knob to ☀ (sun) position, otherwise the sensor could not work!**

### SOME PROBLEM AND SOLVED WAY:

- The load does not work:
  - Please check if the connection of power source and load is correct.
  - Please check if the load is good.
  - Please check if the settings of working light correspond to ambient light.
- The sensitivity is poor:
  - Please check if there is any hindrance in front of the detector to affect it to receive the signals.
  - Please check if the ambient temperature is too high.
  - Please check if the induction signal source is in the detection field.
  - Please check if the installation height corresponds to the height required in the instruction.
  - Please check if the moving orientation is correct.
- The sensor can not shut off the load automatically:
  - Please check if there is continual signal in the detection field.
  - Please check if the time delay is set to the maximum position.
  - Please check if the power corresponds to the instruction.