# **IRIS-S20**



### **TECHNICAL SPECIFICATION**

Power Source:	220-240V/AC
Power Frequency:	50Hz
Detection Range:	360°
Ditection Distance:	20m max(<24°C)
Ambient Light:	<3-2000LUX (Adjustable)
Hold Time:	Min. 10Sec±3Sec, 30Min±2min
Working Temprature:	-20oC~+40oC
Working Humidity:	<93%RH
Power Consumption:	Approx 0.5W
Rated Load:	2000W(Incandescent), 1000W (LED Load)
Installation Height:	2.2-6m

### **IRIS-S20 PIR MOTION SENSOR**

Congratulation on purchasing your new sensor and thank you for the confidence you have shown in us. You have chosen a high-quality product that has been manufactured, tested and packed with the greatest care. Please familiarize yourself with these instructions before attempting to install the product because prolonged, reliable and trouble-free operation will only be ensured if it is fitted and used properly. We hope your new sensor will bring you lasting pleasure.

# **FUNCTIONS**

- please refer to the testing pattern.
- it will restart to time from the moment.

# **INSTALLATION**

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

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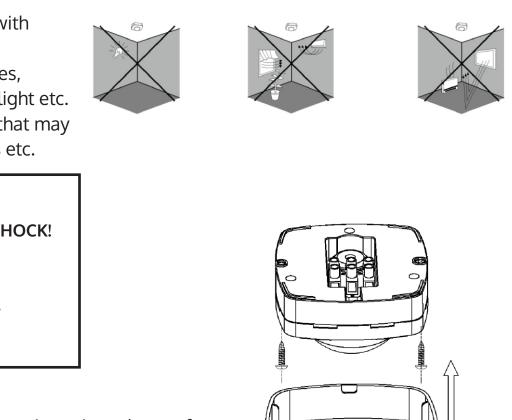
- A DANGER OF DEATH THROUGH ELECTRIC SHOCK!
- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shied any adjacent live components.
- Ensure device cannot be switched on.
- Check power supply is disconnected.

4) Unload the cover directly.

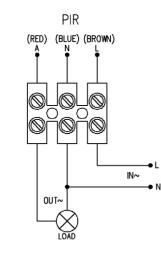
- 5) Connect the power and the load into the connection-wire column of the sensor according to connection-wire diagram.
- 6) Fix the sensor on the selected position with the inflated screw as the figure on the right.
- 7) Install back the cover and then you can test it.

• 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,

• Time-Delay is added continually: When it receives the second induction signals within the first induction,



### **CONNECTION-**WIRE DIAGRAM



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

Fig 2

### **CALIBRATION:**

#### 1) Sensitivity

Reach is the term used to describe the diameter of the more or less circular detection zone produced on the ground after mounting the sensor at a height of 2.5 to 6m. Turn the reach control fully anti-clockwise to select minimum reach(approx. 2m dia), and fully clockwise to select maximum reach(approx. 16m dia). Adjust according to locations and site requirements.

#### 2) Time Setting:

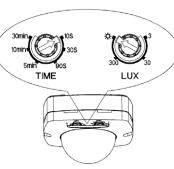
The light can be set to stay ON for any period of time between approx. 10sec(turn fully anticlockwise) and a maximum of 12min(turn fully clockwise). Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test.

#### 3) Light Control Setting:

The chosen light response threshold can be adjusted from approx. 2-2000 lux. Turn it fully anti-clockwise to select dusk-to-dawn operation at about 2 lux. Turn it fully clockwise to select continuous daylight operation. The knob must be turned fully clockwise when adjusting the detection zone and performing the walk test in daylight, then adjust setting according to site requirement.

### TEST

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

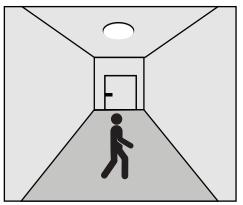


#### Fig 4

## **APPLICATION**

### **Daylight Function**

Hold time is set to 30 sec, Lux is set to 300 Applications: Corridor, Staircase.

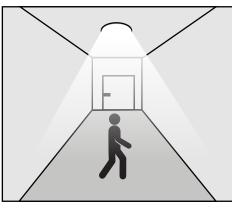


With sufficient daylight,(>300Lux) even when motion detected. light remains off.

ON

### **No Daylight Function**

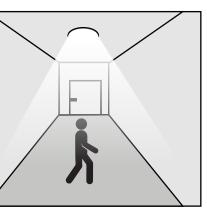
The daylight threshold is set to <sup>3</sup>/<sub>2</sub> or 2000 Disable Light on when detect movement, After people leave, Light off after hold time elapsed (30 Sec.) Applications: Dim places such as Basement Parking, Underpass.



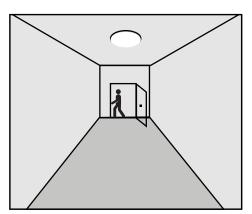
When motion is detected, the sensor will switch on the light to 100% brighteness.



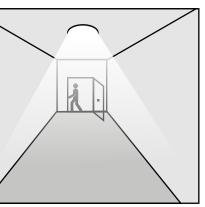
### Light on when detect movement and off After people leave at leave at night.



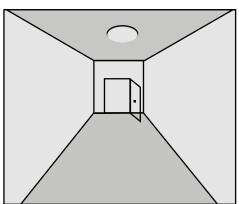
With insufficient daylight,(<300Lux) when motion detected, light



After the last detection and the present hold time (30sec.) elapsed. light OFF.



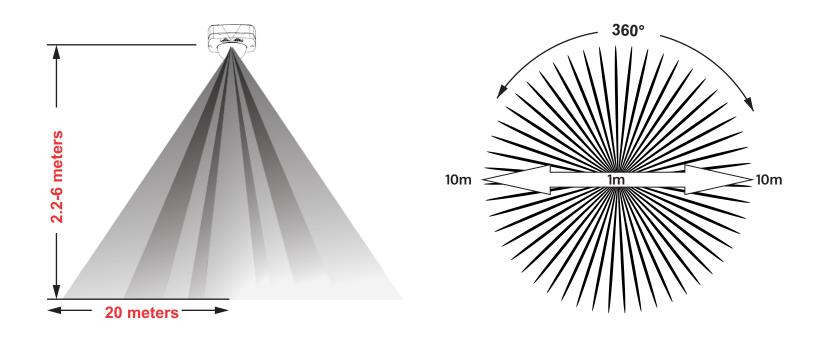
After people leave the detection area, light remains 100% brightness within hold time.



After the last detection and the present hold time (30 sec.) elapsed, light OFF.

### NOTE

- Electrician or experienced human can install it.
- Can not be installed on the uneven and shaky surface
- In front of the sensor there shouldn't be obstructive object affecting detection.
- Avoid installing it near the metal and glass which may affect the sensor.
- For your safety, please don't open the case if you find hitch after installation.



### **TROUBLESHOOTING:**

Malfuction	Cause	Remedy
The load will not work	Wrong light control selected Load faulty Mains is switched OFF	Adjust Setting Change Load Switch ON
The load is always on	Continous movement in detection zone	Check zone setting
The load is ON without any identifiable movement	The sensor not mounted for detecting movement reliably Movement occurred, but not identified by the sensor(movement behind wall, movement of a small object in immediate lamp vicinity etc)	Securely mount enclosure Check zone setting
The load will not work despite movement	Rapid movements are being suppressed to minimize malfunctioning or the detection zone you have set is too small	Check zone setting.