

# Data sheet

## mightySENSE Sensor Switch PIR Presence-1A (MSSSPIRP1A)



### Description

This is suitable for involuntary load switching in spaces where applications are required to be dependent on Human Motion. mightySENSE Sensor Switch PIR Presence-1A detects InfraRed (IR) energy from human to automate loads, specifically for lighting & intruder security. It is a smart energy-saving product.

### Package Includes

- 1x (mightySENSE Sensor Switch PIR Presence-1A – **MSSSPIRP1A**)
- Screws for connection
- Installation Manual

### Features

- Detection of only Human Motion
- Long Range Detection due to 3 Detectors

### Benefits

- Energy-saving
- Convenience of automation of lights by detection of human motion

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### Technical specifications

Type	Motion Detectors
Sensor Technology	Passive Infrared
Application, place	Indoors, outdoors
Type of installation	Ceiling / Wall Mount
Material	Plastic
Colour	White
Power Sourcing	220-240 V AC
Power Frequency	50 Hz
Ambient Light	< 3-2000 LUX (Adjustable)
Time Delay	Min. 10 Sec $\pm$ 3 Sec – Max. 30 min. $\pm$ 2 min.
Rated Load	2000 W
Power Consumption	Approx. 0.5 W
Detection Range	360° (x3 Detectors)
Sensitivity	Ultra Micro Detections
Detection Distance	20 m max. ( < 24° C )
Working Temperature	-20° ~ 40° C
Working Humidity	< 93% Rh
Installing Height	2.2 m – 6 m
Error Protection	Anti-Malfunction
Operation Modes	2 1) Motion 2) Motion + LUX

### Installation

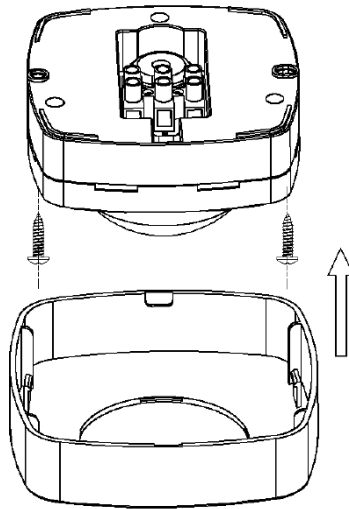
- Switch off the power.
- Turn the bottom-cover anti-clockwise and unload it.
- The power wire goes across the hole in the middle of bottom-stand. Connect the power wire into connection-wire column according to the connection-wire diagram.
- Fix the bottom-stand on the selected position with inflated screw.
- The sensor should be aimed at the mouth of bottom-stand and turned clockwise.
- After finishing installing, turn on the power and then test it.
- Turn the TIME knob anti-clockwise on the minimum (-). Turn the LUX knob anti-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,

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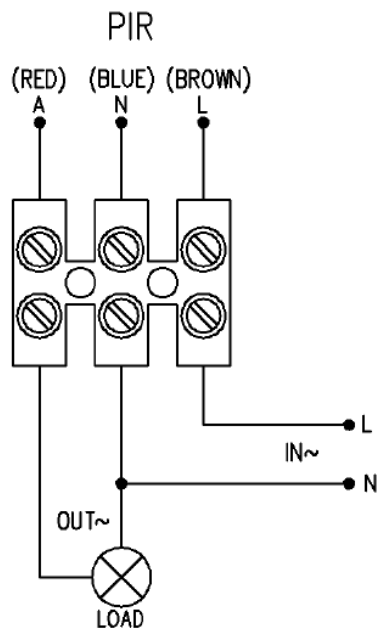
the lamp will turn on. While there is no another induction signal any more, the load should stop working within  $10\text{sec} \pm 3\text{sec}$  and the lamp would turn off.

- Turn LUX knob clockwise on the minimum (moon). If the ambient light is more than 3LUX, the sensor will not work and the lamp will 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  $10\text{sec} \pm 3\text{sec}$ .

## Installation Diagram

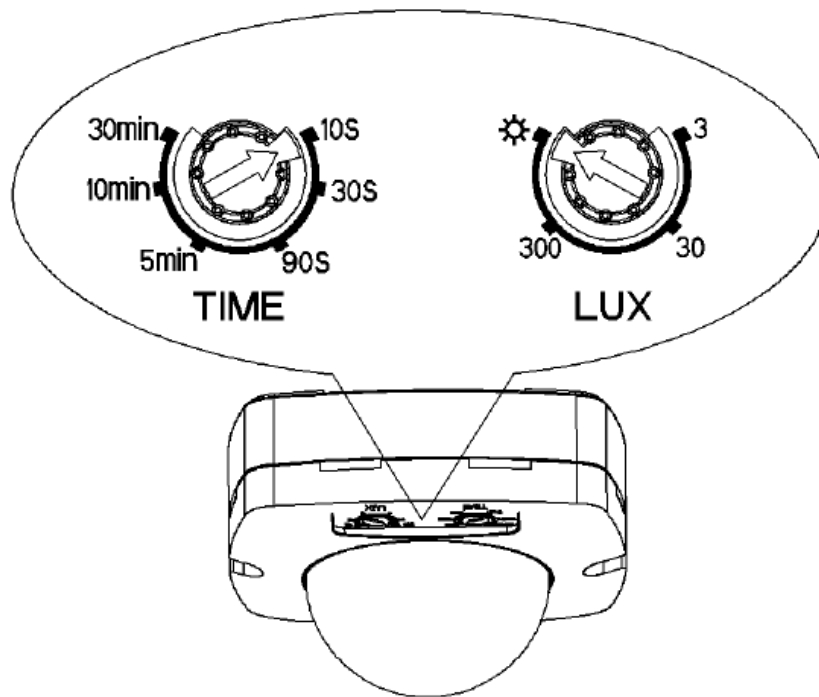


### Installing Sensor



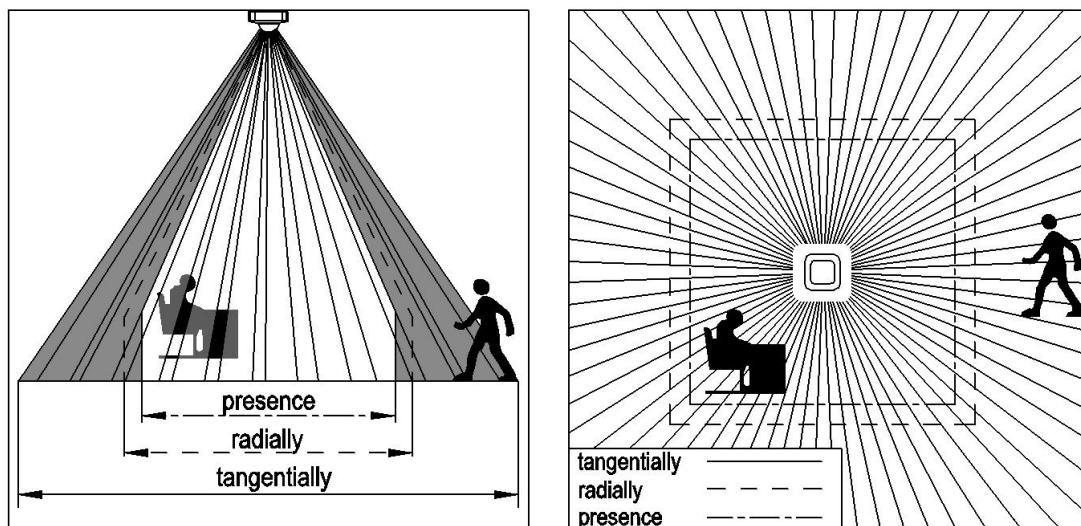
### Connection - Wire Diagram

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### Sensor Configuration

### Installation Advice

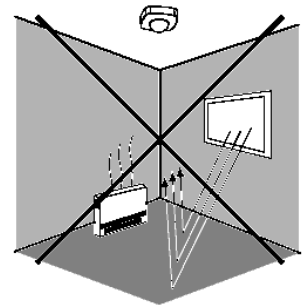
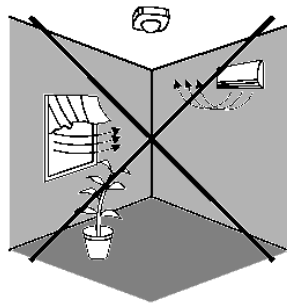
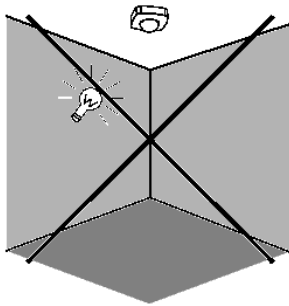


**As the detector responds to changes in temperature, avoid the following situations:**

- 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, lights, etc.

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- Avoid pointing the detector towards objects that may move in the wind, such as curtains, tall, plants, etc.



### Notes

- When testing in daylight, please turn LUX knob to (SUN) position, otherwise the sensor lamp could not work!
- Electrician or experienced human can install it.
- It Cannot 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.
- In order to avoid the unexpected damage of product, please add a safe device of current 6A when installing microwave sensor, for example, fuse, safe tube etc.

### Troubleshooting Guidelines

- The load don't work:
  - Check the power and the load.
  - Whether the indicator light is turned on after sensing? If yes, please check load.
  - If the indicator light is not on after sensing, please check if the working light corresponds to the ambient light.
  - Please check if the working voltage corresponds to the power source.
- The sensitivity is poor:
  - Please check if in front of the sensor there shouldn't be obstructive object that affect to receive the signals.
  - Please check if the signal source is in the detection fields.
  - Please check the installation height.
- The sensor can't shut automatically the load:
  - If there are continual signals in the detection fields.
  - If the time delay is set to the longest.
  - If the power corresponds to the instruction.

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### Notes

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#### Note:

- Due to continuous process of R & D, design and specifications are subject to change without prior notice.
- User is recommended to ensure the suitability of the products for intended application.
- MEMIGHTY is not responsible for consequential damage out of use of its products.



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