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Instructions NANO SENSE

NANO SENSE adopts high sensitivity detector, integrated circuit and SMD; It gathers automatic, convenient, safe, energy-saving, practical functions; It utilizes human motion infrared rays as control signal sources, when one enters the detection field, it will start the controlled load at once; It can identify day and night automatically; It is easy to install and its usage is widely.

I. Specifications

Power Source	230V~
Detection Range	360°
Frequency	50Hz
Working Temperature	-20°C~+40°C
Ambient Light	10LUX/2000LUX (adjustable)
Working Humidity	<93%RH
Time-Delay	5sec., 30sec., 1min., 3mins. 5mins., 8mins.
Installation Height	1.8m~2.5m
Power Consumption	0.45W (work) 0.1W (static)
Rated Load	800W (incandescent lamp) 200W (energy-saving lamp)
Detection Motion Speed	0.6~1.5m/s
Detection Distance	6m max.(24°C)



II. Function

- Can identify day and night automatically; when turn to "sun", it will work day and night; when turn it to "moon"(min.), it will only work in the ambient light less than 10LUX. As for adjustment, please refer to testing way.
- SENS adjustable: It can be adjusted according to using location: low sensitivity for small room and high sensitivity for large room.
- Time-delay is added continually; when it receives the second induction signals after the first induction, it will compute time once more on the rest of the first time-delay basics (set time).
- Time-delay is adjustable: it can be set according to your desire, the minimum is 5sec., and the maximum is 8min.

III. Installation

- Switch off the power.
- Fix the bottom on the selected position with the inflated screw through the screw bores in the side of the sensor.
- Connecting the power and the load to sensor as per the connection-wire sketch diagram.
- Switch on the power and test it.

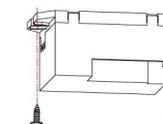
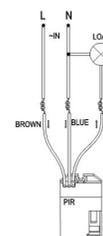


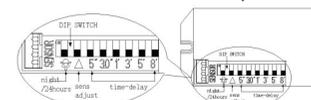
Figure 1

Connection-wire diagram:



IV. Test

- Slide the LUX switch to SUN (like the picture below). Slide the SENS switch to maximum (below is the maximum). Adjust the TIME switch, slide 5 switch to ON position (slide upwards).



- When you switch on the power, and preheat 30 seconds later, the load is turned on, in the absence of no inductor signals, the load should be stopped working within 5-30sec.
- After the first is out, make it sense again after 5-10sec. The load should work. When there is no inductor signals in the indicator lamp, the load should be stopped working within 5sec.
- Slide the LUX switch to MOON position; it is in LUX, the load should be not work in the daylight. If you cover the detection window with the opaque objects (towel, etc.), the load work, under no induction signal condition, the load should stop working within 5-15sec.

TAKE NOTICE: When testing in daylight please turn LUX knob to SUN position, otherwise the sensor lamp could not work!



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V. Notes

- Make sure NANO SENSE is installed by a professional electrician.
- Do not install it on uneven and shaky surfaces.
- Make sure there's no object obstructing the field of detection.
- Avoid installing it near air temperature alteration zones for example: air condition, central heating, etc.
- Please don't open the case for your safety if you find the hitch after installation.
- If there are some difference between instruction and the function the product has, please give priority to product and sorry not to inform you additionally.

VI. Problems and solutions

- 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 does not turn 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 sensivity is poor:
 - Please check if in front of the detection window there are hinder that effect to receive the signals.
 - Please check the ambient temperature.
 - Please check if the signals 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 correspond to the instruction.
 - If the air temperature change near the sensor, air condition or central heating, etc.



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