

# INFRARED SENSOR INSTRUCTION

## GLD-48A-220

PLEASE READ AND SAVE THIS MANUAL

### *General:*

This product is a new energy-saving lighting Switch, adopted two high sensitivity detector, integrated circuit, SMT technology; it gathers the functions of automatism, convenience, safety, energy saving, etc. The wide detection are comprised by right and left two services field, which utilizing body infrared rays as signal control source to star the load when body enter detection field the sensor cans identity day and night automatically. It is used widely and easy to install with the power and detection show functions.

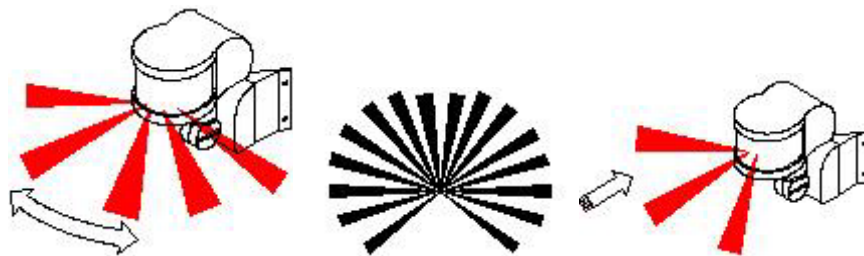


### *Technology reference*

- Power source: 220V/AC~240V/AC 110V/AC~240V/AC
- Related load: A 1200W (220V/AC~240V/AC) 800W (110V/AC~130V/AC)  
B 3000W(220V/AC~240V/AC) 1500W(110V/AC~130V/AC)
- Power frequency: 50~60Hz 800W
- Control light: <3LUX~sunshine light
- Working time: min:8sec ±3sec Max:7min ±2min
- Working temperature:-20~40°C
- Detection range: 270degree
- Detection distance:11m max(<24°C)
- Installation height: 1.5m~2.5m
- Power consumption:0.45W(static 0.1W)
- Working humidity: <93%RH
- Detection moving speed:0. 6~1.5m/s

## ***Function***

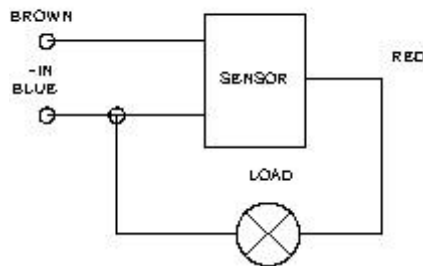
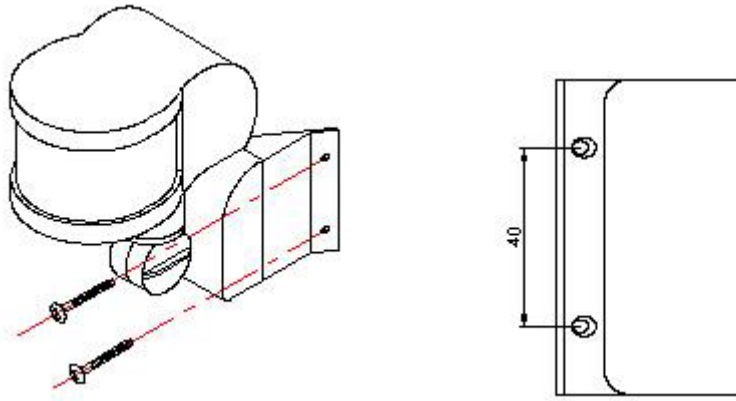
- The detection distance can be adjusted: The detection distance is near if you press down the switch, otherwise it is far;
- Can identify day and night automatically: The ambient light of working of VST-48A.B can be adjusted freely, when you turn it to the sunshine (largest), it can work day and night while it can only work in the circumstance less than 3LUX, If you turn it to moon (smallest). Please refer to the testing way about the adjustment
- Power and detection indication: The indicator lamp flash one time each 4sec after switching on the power, it can flash 2 times each 1sec after receiving the
- Induction signals. So it can show if the detector and power is normal;
- Time-delay added continually: When it receives the second induction signals after the first, it should compute time once more on the rest of the first time-delay basis.
- Time-delay adjustment: The working time-delay can be adjusted according to the customer desire, the minimums time is 8sec $\pm$ 3sec, the maximum is 7min $\pm$  2min.
- Locking function: during working, sensor will keep load lighting when power is shutted off 2 seconds and then on. And shut off the power for 4 seconds and then on, sensor will resume automation.



Correct moving orientation ----- incorrect moving orientation

## ***Installation*** (see the following diagram)

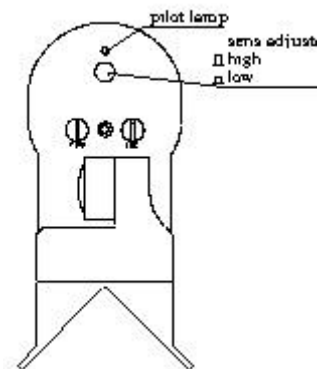
- Shut off the power;
- Twist open the screw on the base-lid, pull on the wiring hole, put the power and load wire into the base-lid;
- Fix the base-lid with the dilatibility screw on the selected installation position;
- Put the power and load wire into the sensor according to the indication diagram;
- Fix the sensor on the base-lid, twist the screw tightly then you could electrify it to test;



### *Connection-wire diagram*

### *Test*

- Turn the light control knob to the largest anti-clockwise (LUX); turn the time knob to smallest clockwise.
- Turn on the power, the controlled load should not work, and the indicator lamp flash 1 time each 4sec; the load would work within 5~10sec and the indicator lamp flash 2 times each 1 sec. If there are no induction signals, the load should stop working within 5~30sec, the indicator lamp should resume to flash 1 time each 4sec;
- It will induct within 5-10sec again after the first is out, the load should work and the indicator lamp flash 2 times every 1sec, the load stop working within 5-15sec;
- Turn the LUX knob to the smallest anti-clockwise. If you test it in the ambient light more than 3LUX, the sensor load shouldn't work after load stop working; if you cover the detector window with the opaque objects (towel etc), the load should work. Under no induction signals condition, it is normal the load stop working within 5-15sec.
- Attention: It must be 5sec till the second induction after the first induction and the load stop working, while it doesn't need separated time when it inducts continually if the load doesn't stop working.



### *Note:*

- Electrician or experienced human can install it;
- The unrest objects can't be regarded as the installation basis-face;
- There is no hinder or unrest objects effecting detection in front of the detection window;
- Avoid installing it near 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.

### ***SOME PROBLEM AND SOLVED WAY***

- ***The load doesn't work:***

- a. Check the power and the load;
- b. If the indicator lamp flash 1 time every 4sec;
- c. The load is good;
- d. If the indicator lamp flashes speed quicken after induction.
- e. Please check if the working light set correspond to the ambient light

- ***The sensitivity is poor:***

- a. Please check if there is any hinder in front of the detection window that effect to receive the signals;
- b. Please check the ambient temperature;
- c. Please check if the signal source is in the detection fields;
- d. Please check the installation height
- e. If the moving orientation is correct.

- ***The sensor can't shut off the load automatically:***

- a. If there is the continual signals in the detection fields;
- b. If the time-delay is the longest;
- c. If the power correspond to the instruction required;
- d. If the temperature change near the sensor, (air conditioner, central heating etc).
- e. To check it if in locking conditions.

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