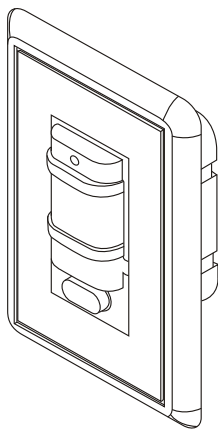


DSW™ Protect Security

INFRARED SENSOR

Sensor Model No. DPS21B&C

The product is the new energy-saving switch adopted integrated circuit, the good sensitivity detector and SMT. It incorporate automatic, convenient, safe, energy-saving and practical functions.. The wide detection range is made up of the up and down, left and right service field. It works by receiving human motion infrared rays. It can start the controlled load at once when human enter detection field. It can identify automatically. day and night. Its using range is wide. Its installation is very convenient. It has the functions of the power and the detection indication



SPECIFICATIONS:

- Power source: 100V/AC~130V/AC
- 110V/AC~240V/AC
- 220V/AC~280V/AC
- Power frequency: 50~60Hz
- Ambient light: <10LUX
- Time-Delay: min:8sec±3sec
- Max: 7min±2min
- Rated load: 800W (110V/AC~130V/AC)
- 1200W (220V/AC~240V/AC)
- Detection range: 140°
- 180°
- Detection distance: 9m max (<24°)
- Working temperature: -20~40°C
- Working humidity: <93%RH
- Installation height: 1m~1.6m
- Power consumption: 0.45W(static 0.1W)
- Detection motion speed: 0.6~1.5m/s

FUNCTIONS:

Detection field: The detection field is made up of up and down, left and right service field.(see the following diagram 1).It has the relationship between the sensitivity and the orientation of moving.

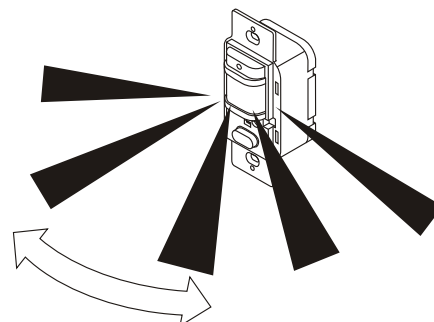
Can identify day and night: It has been set before produce. But it can only work in the less than 10LUX ambient light.

Power and detection indication: The indicator lamp can flash one time every 4sec after switching on the power. It can flash 2 times every 1 sec after it received the signals. So it shows if the detection and power is normal.

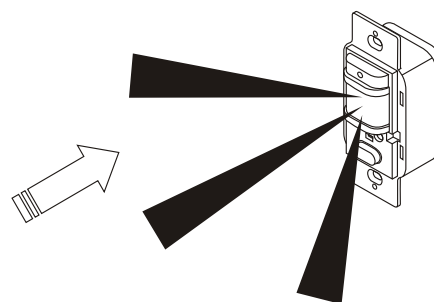
Time-delay added continually: When it received the second induction signals after the first induction, you should compute time once more on the rest of the first time-delay basic. (set time)

Time-delay adjustment: It can be set according to the consumer desire. The minimum time is 8sec+3sec. The maximum is 7min+2min.

The switch: DPS21B the "AUTO" condition when you push it in. It is "OFF" condition when you push it out; DPS21C switch "AUTO" "OFF", "ON"



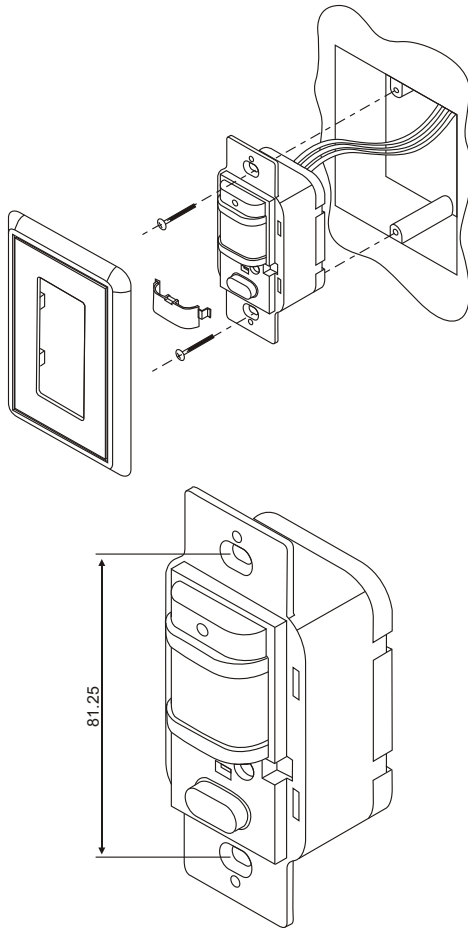
Correct the moving orientation



Incorrect the moving orientation

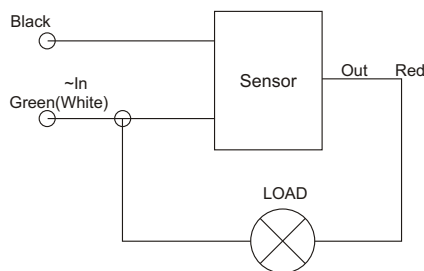
INSTALLATION: (see the following diagram)

- Switch off the power
- The power and the load wire are connected with the sensor according to connection-wire diagram
- Lift the board-face off. The sensor is fixed on the selected position.
- You can connect the power and test it after covering the board-face.



CONNECTION-WIRE DIAGRAM

(see the right Fig)



TEST:

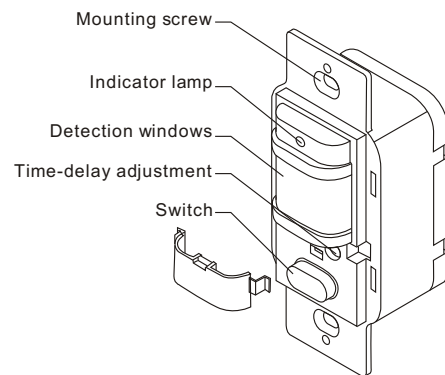
- The time knob turns anti-clockwise on the minimum after lifting the board-face off.
- After switching on the power, the controlled load won't work and the indicator lamp flash one time every 4sec. The load should work within 10sec and the indication lamp can flash 2 times every 1 sec if you cover the detection window with the opaque objects (towel etc.). (The light can't project the detection window). Under the no inductor signals conditions, the load should stop working within 5-30sec. At the same time, the indicator lamp should flash still one time every 4sec.
- After the first is out, take 5~10sec to cover the detection window. The load should work and the indication flash 2 times every 1 sec. The load will stop

working within 5~15sec.

- The load should work within 5~10sec if you test it in the less than 10LUX ambient light after switching on the power. After the load stop working, the sensor load should not work.(the sensor work continually if it received the continual inductor signals when the load is working). if you sense it again, the load should work.. Under the no inductor signals conditions, it is normal for the load to stop working within 5~15sec.

NOTES:

- * Electrician or experienced human can install it.
- * The unrest objects can't be regarded the installation basis-face.
- * There isn't 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.
- * 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.



SOME PROBLEM AND SOLVED WAY:

1. The load do't work:

- a. check the power and the load.
- b. If the load is good.
- c. If the indicator lamp speed quicken after induction, please check if the switch is on the "auto" position if the speed quicken.
- d. Please check if the working light correspond to the ambient-light.

2. The sensitivity is poor:

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

3. The sensor can't shut off the load automatically:

- a. If there is the continual sensor signals in the detection field.
- b. If the time-delay set the longest.
- c. If the power correspond to the instruction.
- d. If the temperature change near the sensor. (air condition, central heating etc.)