

PhotoCell P5200 user manual (V8)

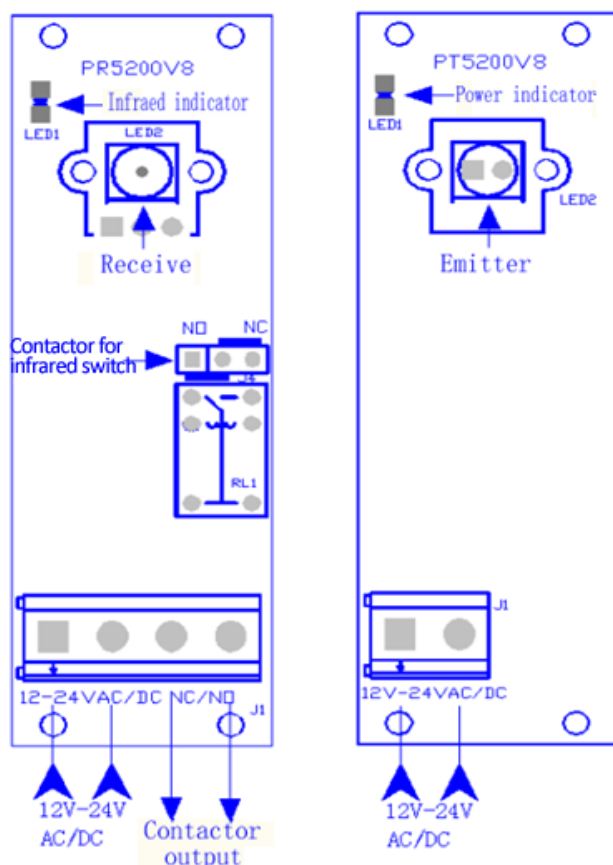
I. Technical Specification

1. Working voltage: 12~24VAC/DC
2. Working current(24VDC):emitter: ≤8mA receiver: ≤30mA
3. Photocell wavelength: 940nm
4. Angle of emission: ≤±5°
5. Receiving range: ≥12m
6. Angel adjustment of PCBA: ±90°
7. Working temperature: -20°~+60℃
8. Relay contact loading capacity: 1A/30VDC
9. Size: 100*40*35mm

II. Safety Instruction

1. For security, please read the user manual carefully before initial operation;
2. This photocell is without any fuse, so Please make sure the power is off before installation;
3. Only used this system that do not cause any danger life or property during the running failure or its security risks eliminated;
4. Please guarantee the products used in effective working range.

III. Picture Display



Wiring diagram

Size

IV. Installation instruction

1. Receive module J4 in above picture(PR5200) is the option switch for NO and NC of photocell switch.
 - 1.1 When the short circuit cap on NO, it is normally open .
 - 1.2 When the short circuit cap on NC, it is normally closed.
2. Installation
 - 2.1 The photocells should be installed more than 20cm above the ground (to avoid reflection), and the distance between emitter

and receiver should be more than 50cm.

4. 2. 2 End user should install the photocell receiver on the back of the direct sunlight or other strong light source ($\pm 5^\circ$) to keep photocell work well steadily.

4. 2. 3 Avoid installing other infrared photocell emitters within the effective distance of receiver

4. 2. 4 If the end user need to install other photocells in one same straight line , the receivers could be installed in the two ends and the emitters could be back-to-back installed

4. 2. 5 Stable installation could avoid the signal of emitter and receiver skewing due to lightly vibrate and the malfunction.

4. 2. 6 When the product is installed in some place with angle , end user could adjust the PCBA to make the installation better .

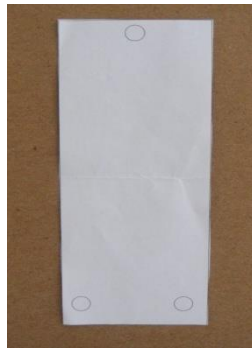
4. 2. 7 Connect the power after the inspection, when short circuit cap at NO, emitter module LED turns on, receiver module LED turns on, receiver module contact NC/NO at ON; when make the cap of emitter and receiver in alignment, receiver module LED is off, NC/NO is off; when something or someone shelter the sensor, receiver module LED will turn on , NC/NO contact is ON. When short circuit cap at NC, the state of NO/NO is opposite to the above phenomenon

V. Installation Pictures

1. Open the package and take out the accessories



2. Stick the holder location map where you need



3. Drill holes, and fix expansion sleeve.



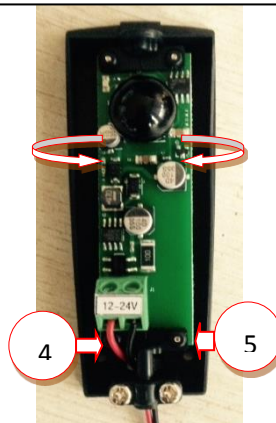
4. Connect wires



5. Fix the screws NO 1,2,3 with the base



6. Release screw NO 4&5, adjust the appropriate angle of PCBA($\pm 90^\circ$), then fix screws NO 4,5



7. Install the top cover, and fix the screw



8. Installation of PR5200 is finished, PT5200 is the same

