

# Photozell P5200 user manual

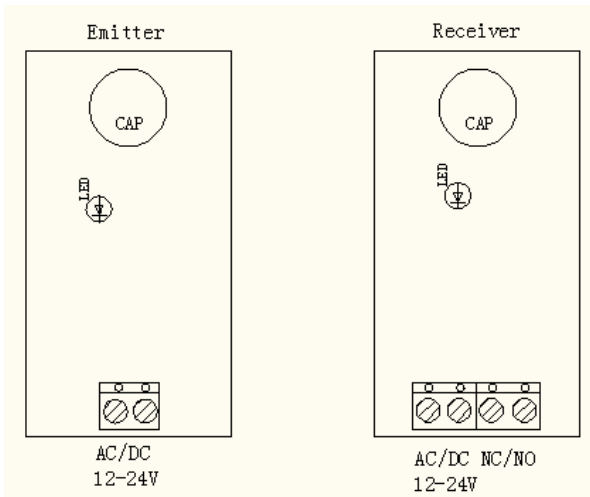
## I. Technical Specification

1. Working voltage: 12~24VAC/DC
2. Working current(24VDC):emitter:  $\leq 8\text{mA}$  receiver:  $\leq 30\text{mA}$
3. Photocell wavelength: 940nm
4. Angle of emission:  $\leq \pm 5^\circ$
5. Receiving range:  $\geq 12\text{m}$
6. Angel adjustment of PCBA:  $0 \sim 180^\circ$
7. Working temperature:  $-20^\circ \sim +60^\circ\text{C}$
8. Relay contact loading capacity: 1A/30VDC
9. Size: 100\*40\*35mm

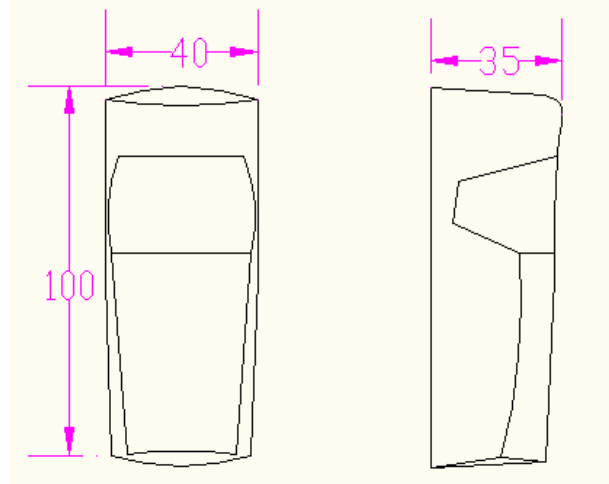
## II. Safety Instruction

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



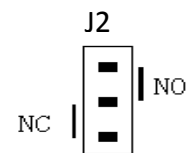
Wiring diagram



Size

## IV. Installation instruction

- 4.1 Receive module J2 in pic 3 is the option switch of photocell switch.
  - 4.1.1 When the short circuit cap on NO, The photocell will be Normal Open.
  - 4.1.2 When the short circuit cap on NC, the photocell will be normal closed.
- 4.2. Installation
  - 4.2.1 The photocells should be installed more than 20cm above the ground (to avoid reflection), and the distance between emitter and receiver shall be more than 50cm.
  - 4.2.2 End user should install the photocell 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 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 at off; when make the cap of emitter and receiver in alignment, receiver module LED is off, NC/NO is on; when something or someone shelter the sensor, receiver module LED will turn on , NC/NO contact is off. When short circuit cap at NC, the state of NO/NO is opposite to the above phenomenon



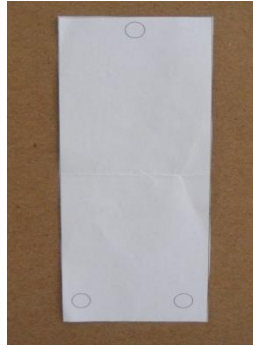
Pic 3

## 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 pipe



4. Connect wires



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



5. Adjust the appropriate angle of PCBA, fix screws NO 4,5



6. Install the upper cover, and fix the screw



8. Finished

