

# Photocell P5200 user manual (A7)

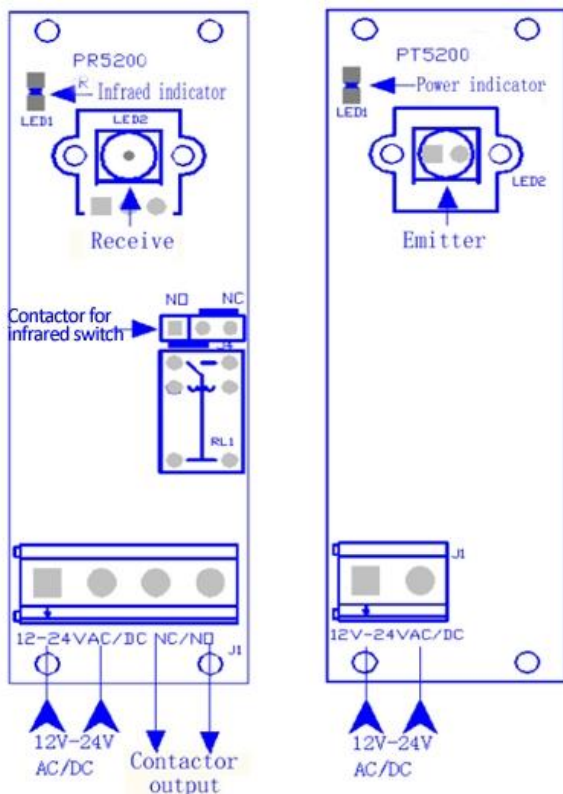
## I. Technical Specification

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. Waterproof level: IP54
10. Size: 100\*40\*35mm
11. Weight: 107g

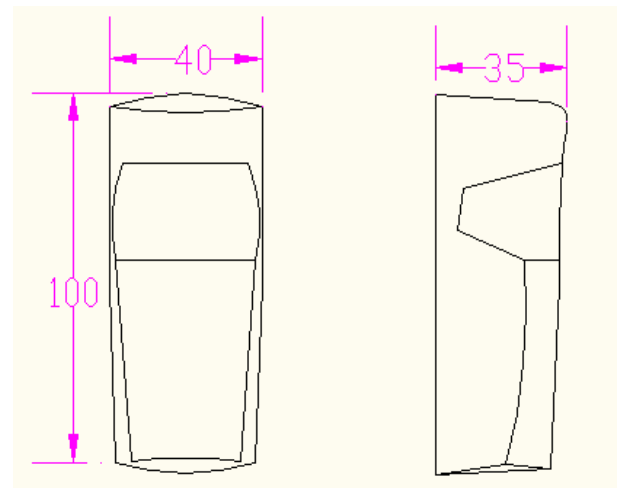
## II. Safety Instruction

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 J4 in above picture(PR5200) is the option switch for NO and NC of photocell switch.
  4. 1. 1 When the short circuit cap on NO, it is normally open .
  - 4.1.2 When the short circuit cap on NC, it is normally closed.
4. 2. Installation
  4. 2. 1The 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

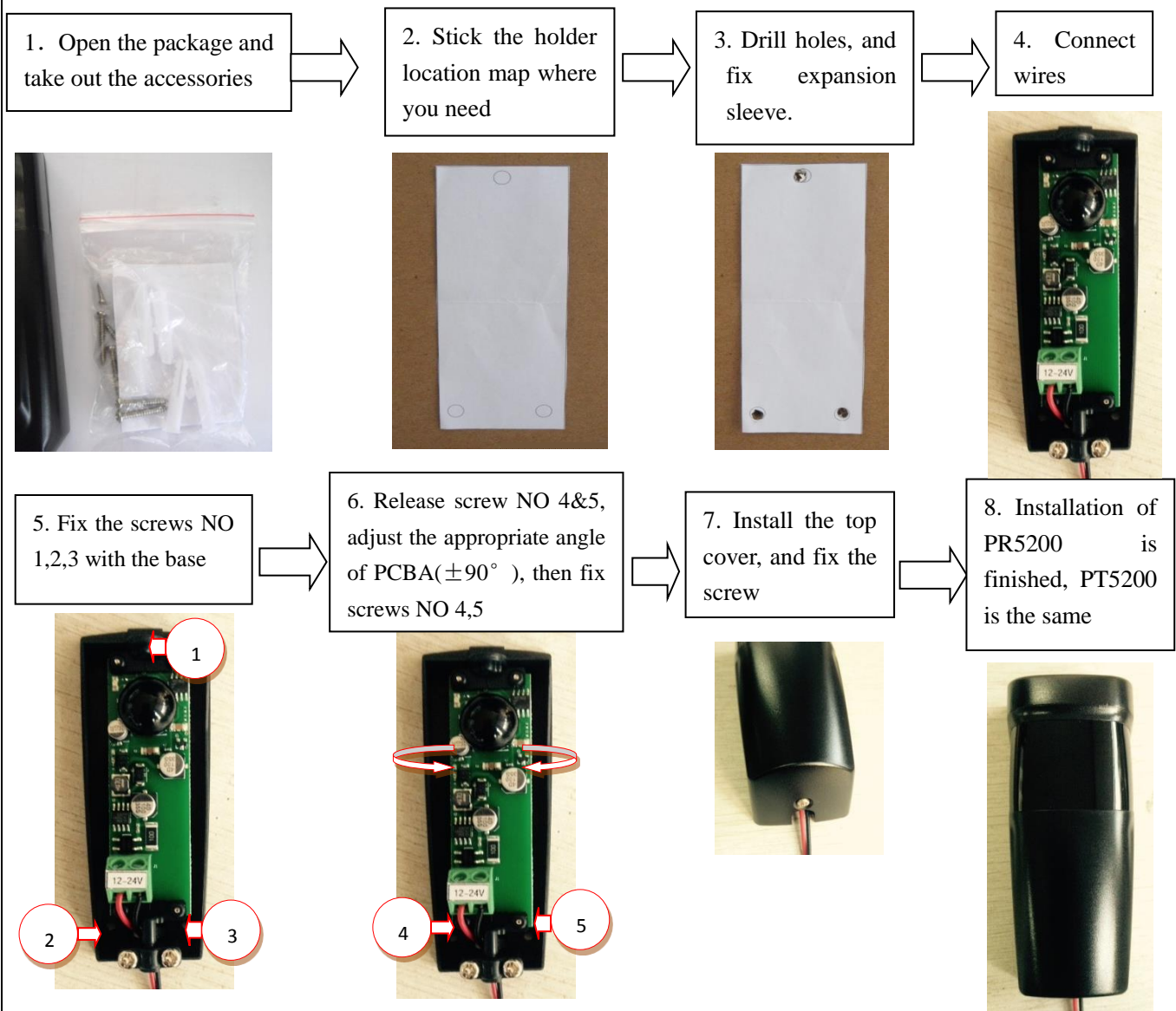
4. 2. 5 Stable installation could avoid the signal of emitter and receiver skewing due to lightly vibrate and the malfunction.

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 Connecting power after checking no error of connecting lines, emitter LED lights, keep the CAP of emitter and receiver align, receiver LED off; When they are not align, receiver LED on.

4. 2. 8 Connecting power after checking no error of connecting lines, when short circuit cap at NC, keep the CAP of emitter and receiver align, NC/NO connects ;When they are not align, NC/NO disconnects. When short circuit cap at NO, the state of NC/NO is opposite to the above phenomenon.

### V. Installation Pictures



The interpretation and ownership of this manual belong to Hiland company. Any change of the product can be without prior notice.