

PhotoCell P5200 user manual (A1)

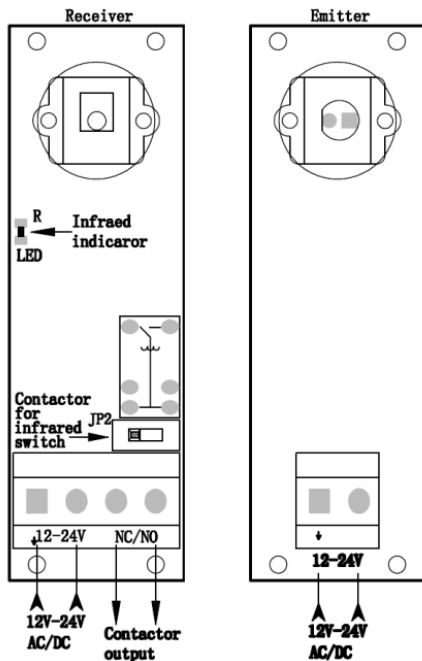
I. Technical Specification

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: $\pm 90^\circ$
7. Working temperature: $-20^\circ\text{C} \sim +60^\circ\text{C}$
8. Relay contact loading capacity: 1A/30VDC
9. Waterproof level: IP54
10. Size: 100*40*35mm
11. Weight: 107g

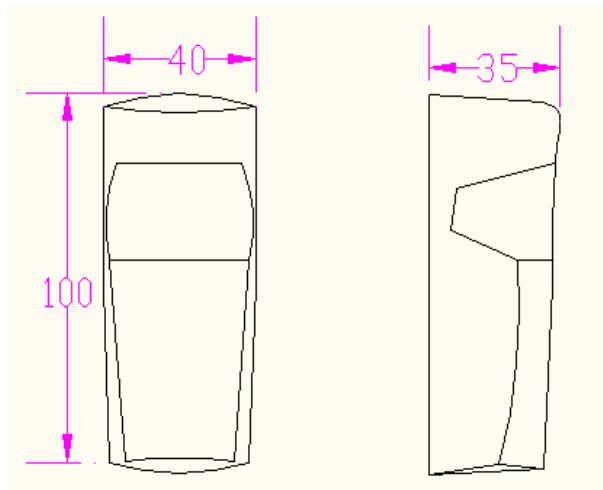
II. Safety Instruction

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. This product is only used for the equipment which will not cause life or property hazards when a breakdown happens or its security risks have been already eliminated;
4. Please guarantee the products used in effective working range.

III. Picture Display



Wiring diagram



Size

IV. Installation instruction

- 4.1 Receive module JP2 in above picture (PR5200) is the option switch for NO and NC of photocell switch.
 - 4.1.1 When toggle switch JP2 at NC, it is normally open without power
 - 4.1.2 When toggle switch JP2 at NO, it is normally close without power
- 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 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

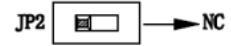
4. 2. 4 If the end user need to install other photocells in one same straight line , the receivers could be installed in the two ends and the emitters could be back-to-back installed

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

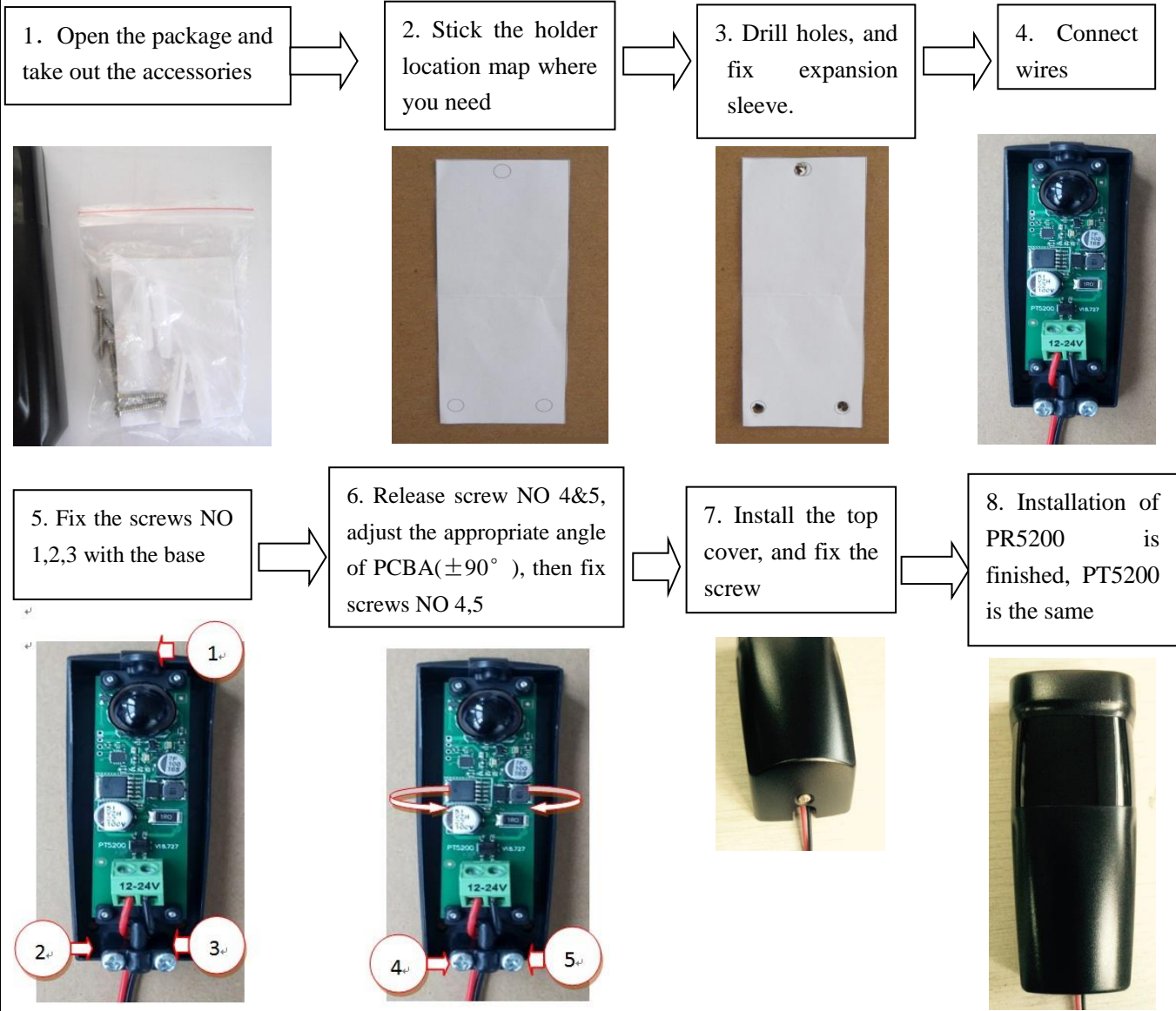
4. 2. 6 When the product is installed in some place with angle , end user could adjust the PCBA to make the installation better .

4. 2. 7 Connecting power after checking no error of connecting lines, 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 toggle switch JP2 at NC, keep the CAP of emitter and receiver align, NC/NO connect; When the CAP of the emitter and receiver are blocked by obstacle, NC/NO disconnects. When toggle switch JP2 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.