

Photocell user manual

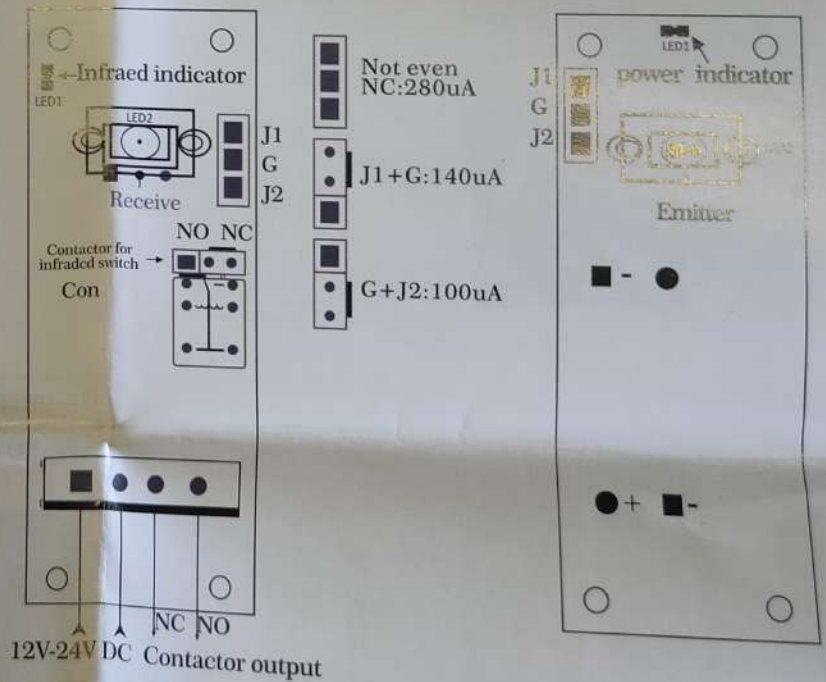
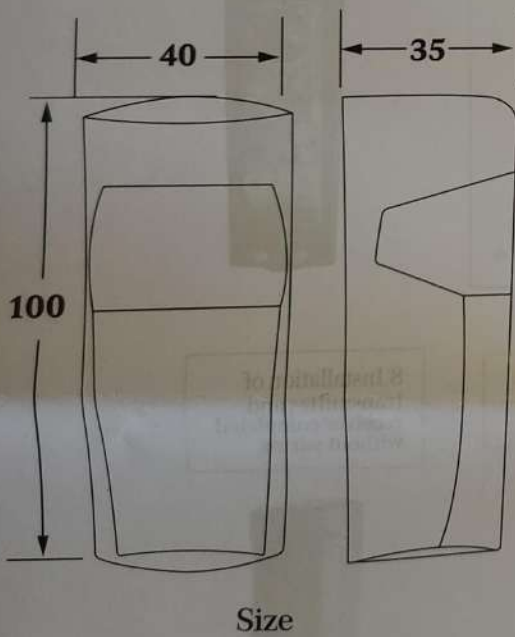
Technical Specification

Working voltage	Transmitter : 3V (2PCS AAA battery 1.5V LR03) Receiver: 12-24V DC
Working current	Transmitter < 85uA, Receiver < 30mA (24V DC)
Photocell wavelength	940nm
Angle of emission	$\leq \pm 5^\circ$
Receiving range	> 12m
Relay contact loading capacity	1A/30VDC
Size	100*40*35mm

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

Picture Display



Installation instruction

- 4.1 Receive module J4 in above picture 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

4.2.1 The photocell 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(+/-) 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 install in some place with angle, end user could adjust the PCBA to make the installation better.

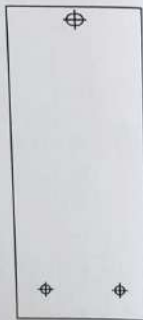
4.2.7 Connect the power after the inspection, when short circuit cap at NO, After the battery is installed on the LED lamp of the transmitting module, the LED lamp lights up for 0.5 seconds and then goes out, receiver module LED turns on, receiver module contact at off; when make the cap of emitter and 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.

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 WI res



5. Wiring diagram



Contactor output

6. Fix the screws NO1,2,3 with the base



7. Adjust the appropriate angle of PCBA ($\pm 90^\circ$), fix screws NO 4,5



8. Installation of transmitter and receiver completed without wiring

