

Operation Instruction

Photocell

V1.0

! Notice: For security, please read the user manual carefully before initial operation

1 Product Preview



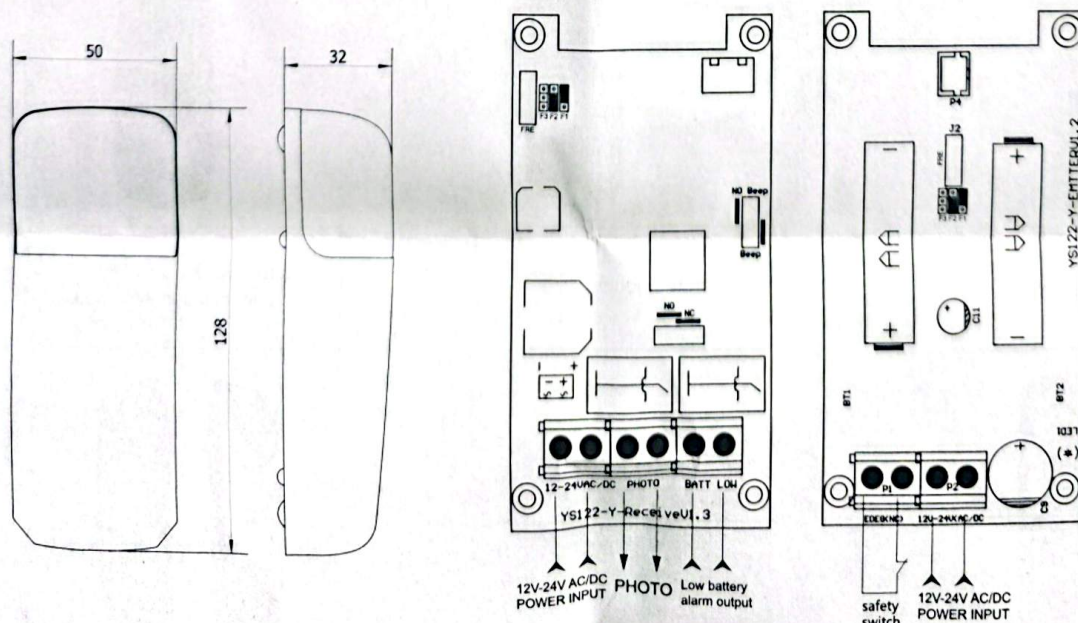
2 Technical Specification

Working Voltage:	Receiver: AC/DC12-24V emitter: 2*1.5V,AA alkaline battery
Working current:	receiver: ≤40mA emitter: 65uA
Photocell wavelength:	940nm
Angle of opposite emission:	≤±5°
Receiver range:	1-15m
Internal Rotation system adjusted angle:	±90°
Working temperature:	-20°C~+60°C
Waterproof grade:	IP54
Relay contact loading capacity:	1A/30VDC
Size:	128*50*32mm

3 Safety Instruction

- This photocell is without any fuse, so please make sure the power is off before installation
- Only used this system that do not cause any danger life or property during the running failure or its security risks eliminated
- Please guarantee the products used in effective working range

4 connection diagram



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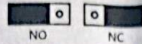
5 Installation Instruction

J2 Frequency optional

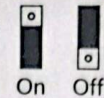


Notice: Emitter and receiver must be in the same frequency

J3 Output optional



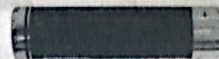
J4 Buzzer option On or Off



Energizer lithium battery lifetime ≥ 3 years
(Battery capacity: 1600mAh)



Ordinary alkaline battery lifetime ≥ 1.5 years
(Battery capacity: 800mAh)



5.1 Installation

5.1.1 The photocells should be installed more than 20cm above the ground (to avoid reflection)

5.1.2 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.

5.1.3 When installing, the emitter and receiver must be in the same horizontal line

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

5.2 Wire connection

5.2.1 'EDEG' is safety switch (See transmit module in PIC 2). It should be short circuit if the safety switch is not used. '12-24VAC/DC' is outside power input port.

5.2.2 It is receive module in PIC 1, "12-24VAC/DC" is power input port. 'PHOTO' is the switch contact and can select NO or NC (refer to J3). LOW BAT is the low voltage alarm switch to buzzer when working voltage of emitter module is lower than 2.5V. Also it can activate the external alarm.

5.2.3 When the connection is correct, and the LED light at the receiver will be on. When someone or an object triggers the signal, the LED light at the receiver will be off, the relay will close, and the buzzer will ring (J4 is set on).

6 Installation Pictures

1. Stick the installation paper on the installation position, drill holes and fix the expansion tube according to the hole location on the paper



2. Install the Base



3. Install the battery and debug it



4. Put cover on the base



5. Tighten the bottom screw



6. The test works correctly and the installation is complete

