Charged FT100 photocells

Infrared safety photocell pair (transmitter TX and receiver RX). Read this manual fully before installing.

Technical specification

Item	Value
Working voltage	2 × AAA (7#) batteries in the transmitter, **or** AC/DC 9–24 V
Static working current	TX ⊠ 300 μA · RX ⊠ 15 mA
Working temperature	-20 °C to +80 °C
Receiver range	In strong light: 8 m to 12 m · Without strong light: 15 m to 17 m
TX standby time	More than 130 days (with good-quality alkaline AAA batteries)
Product size (L × W × H)	100 × 40 × 35 mm
Batteries	Not included

Safety instructions

- Sensing range is reduced by 30% in bad weather such as heavy rain or dust.
- When used for motor control, power the photocell from a supply that is **separate** from the motor controller's supply. Otherwise interference from the motor will stop the photocell working correctly.
- Strong light reduces the sensing range by more than 30%. When you install the photocells, avoid strong light falling on the receiver.

Operating mode

Transmitter (TX). Fit 2 × AAA (7#) batteries, or connect an external AC/DC 9–24 V supply. After power-up the LED flashes 3 times to show it is working.

Receiver (RX).

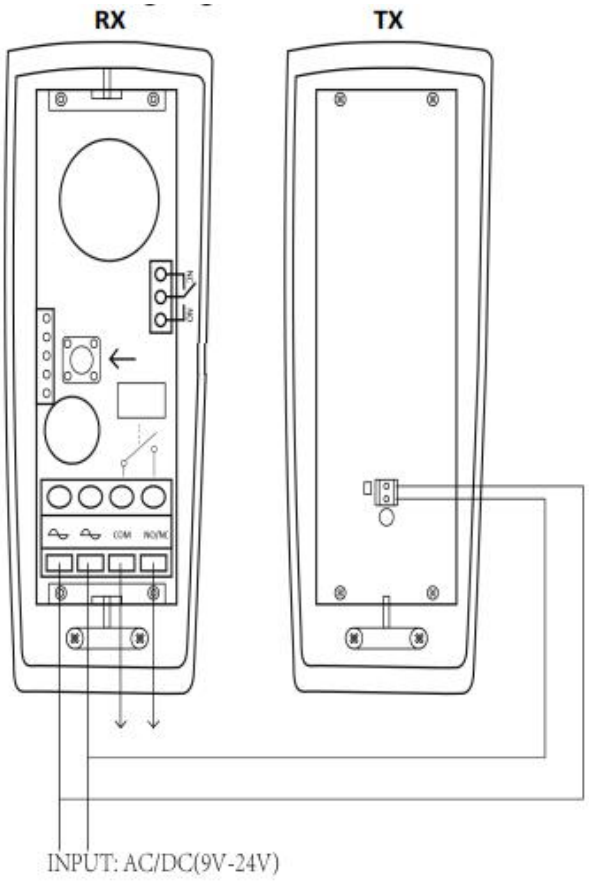
- If the RX does not receive the TX signal, the LED flashes and the relay is open (disconnected).
- If the RX receives the TX signal, the LED is off and the relay is closed (connected).
- If the TX battery is low and the RX has not received a signal for 3 hours, the RX buzzer beeps continuously to tell you to replace the batteries.

Installation (alignment) mode

- Press the button for 1 second. The buzzer sounds "bleep-bleep" and the LED stays on: the RX is now in installation mode.
- Press the button again for 1 second. The buzzer sounds "bleep-bleep-bleep-bleep" and the RX leaves installation mode.
- In installation mode, the LED goes off when the RX receives the TX signal and stays on when it does not. Installation mode ends automatically after a maximum of 2 minutes.

Wiring diagram

Power for the receiver: AC/DC 9–24 V. The terminal block on the receiver is marked with the two supply terminals, COM and NO/NC. For a transmitter on external power, link it to the same supply as shown.



Fitting tips

- Fit the transmitter and receiver facing each other, at the same height, with a clear line between them.
- Wire the supply before you fit batteries or switch on.
- Do not use the same power supply as the gate or door motor (see Safety instructions).

Support

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When you contact us, please quote the product name and your order number.