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About this Manual
The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the EZVIZ ™ website (http://www.ezviz.com).

Revision Record
New release – January, 2025

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Safety Instruction
Due to the product shape and dimension, the name and address of the importer/manufacturer are printed on the package.

Customer Service
For more information, please visit www.ezviz.com
Need help? Contact us:
Telephone: **+31 20 241 7003**
Technical Inquires Email: support.eu@ezviz.com

The full text of the PSTI conformity of this product is available at the following web link:
https://www.ezviz.com/uk/page/declaration-of-conformity.

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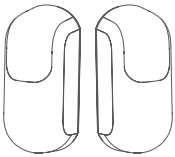
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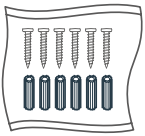
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Overview

1. Package Contents



Photocell TX (×1) & RX (×1)



Screw Kit (×1)

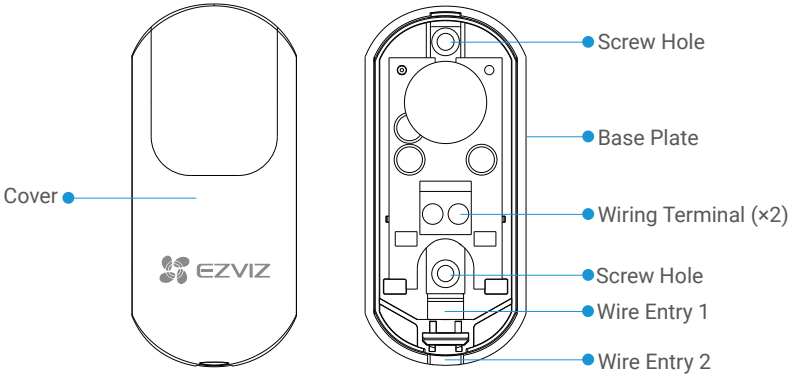


Regulatory Information (×1)

- This product must be used with an EZVIZ gate opener (hereinafter referred to as "gate opener").
- There may be different types of gate openers and gates. The gate opener and gate illustrations in this user manual are for reference only. For more details, please refer to the user manual of your gate opener.

2. Basics

Based on the emission of infrared beams, the photocells are used to detect the passage of a person or vehicle through the gate to prevent from causing any harm or damage during gate closing. Cutting the photocell beam should cause the gate to stop immediately.



Installation Procedure

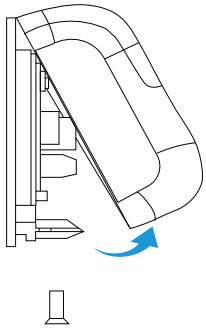
- Do not install the photocells onto unstable surfaces.
- If you install the photocells where there are direct light rays or sunlight, measures should be taken to protect the internal optical components of the photocells from the light rays or sunlight.
- The photocell RX should only receive light rays emitted by the photocell TX. Do not direct infrared light rays emitted by other detectors at the photocell RX.
- Be sure to install the two photocells at the same and appropriate height (recommended height: 0.5 m above the ground).
- Recommended horizontal distance between the photocells: 3-8 m.
- Two pairs of photocells can be installed at most. Do not install two TXs (or RXs) on the same side.

1. Preparation

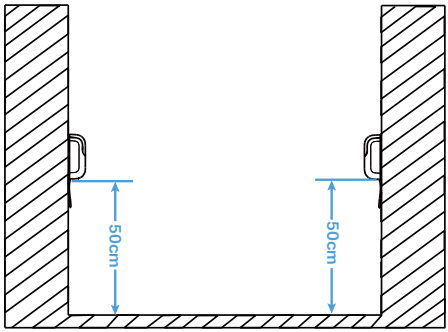
1. If any existing photocells are installed on the pillar, remove them first. The wires can be retained for use.
2. Ensure that the environment meets the installation requirement. Use a tape measure to help determine an appropriate installation location on the pillar. It is recommended that the photocells should be installed at a height of about 50 cm above the ground and the photocells can be installed either inside the gate or outside the gate on the pillar.
3. One pair of photocells are provided in the package. The two photocells should be installed on both pillars separately, with no specific requirements on which pillar the TX or RX should be installed.
4. Each photocell requires two wires for connection to the gate opener. If there are four concealed wires, choose any two of them.

2. Installation

1. Take the photocell (TX or RX) out of the box. Use a screwdriver to loosen the screw on the bottom of the cover. (Keep the screw properly.)



2. Grab the lower part of the cover and flip it upwards to separate the cover from the base plate.
3. Use the base plate and a tape measure to select an appropriate installation location on the pillar. It is recommended that the location should be at a height of about 50cm above the ground (as shown below).

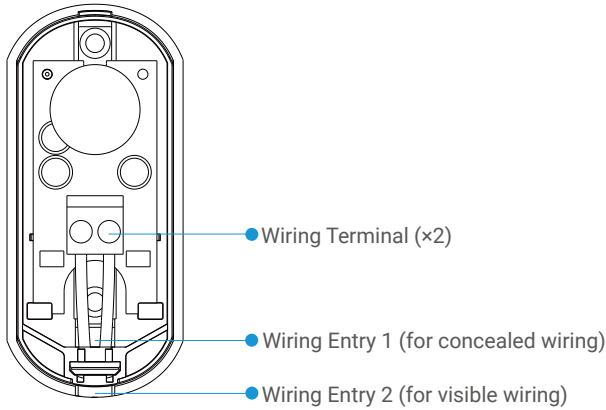


The photocells can be installed either inside the gate or outside the gate on the pillar.

4. Use a marker to mark two anchoring points according to the two screw holes on the base plate.
5. Take the base plate away and use a drill bit to drill two holes (drilling depth: 25-30mm) at the two anchoring points.
6. Connect wires.

   a. Use a screwdriver to loosen the two screws on the two wiring terminals.

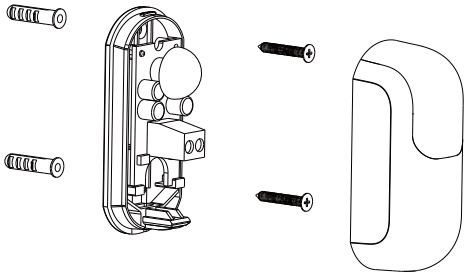
   b. Connect the wires to the two wiring terminals (polarity-insensitive).



   c. Use a screwdriver to tighten the screws back on the wiring terminals.

- The two wiring terminals on the base plate are polarity-insensitive.
- Make sure that the screws are tightened properly and the wires will not fall off.
- Be careful not to short-circuit the two wires.

7. Insert two anchors into the holes on the pillar and hammer them just into the holes.
8. Align the two screw holes of the base plate with the two holes on the pillar and fix two screws into the screw holes.



9. Install the cover onto the base plate (from the top down) and tighten the screw back (loosened in step 1) on the bottom of the cover.

After one photocell is installed, repeat the steps above to install the other photocell, making sure that the two photocells are fixed at the same height and the two photocells are aligned as shown below.

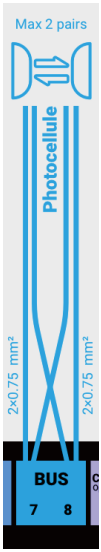


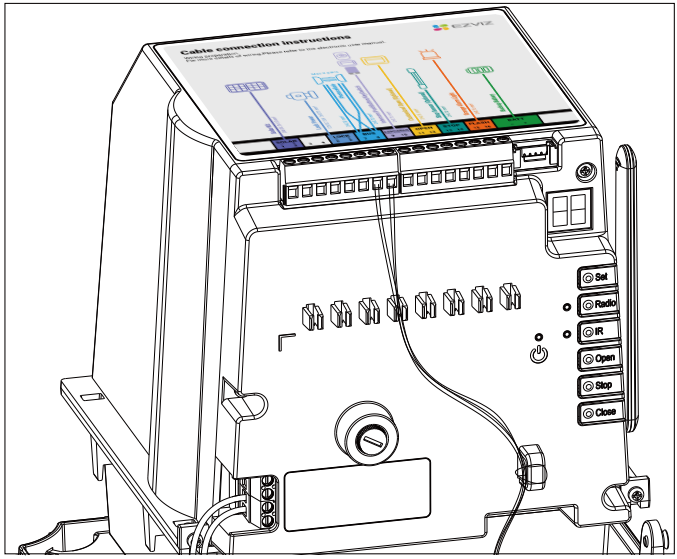
3. Wiring on the Gate Opener

1. Loosen the two screws on the “BUS” terminals on the gate opener.
2. Insert the two wires of one photocell into the “BUS” terminals.

   - Do not insert the two wires into the same terminal.
   - Make sure that the screws are tightened properly and the wires will not fall off.
   - Be careful not to short-circuit the two wires of the same photocell.

3. Insert the two wires of the other photocell into the “BUS” terminals.
4. Tighten the screws back on the two terminals.
5. Use a cable tie to fix the wires in the cable holder.



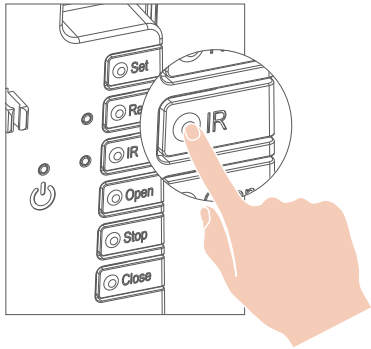


4. Testing

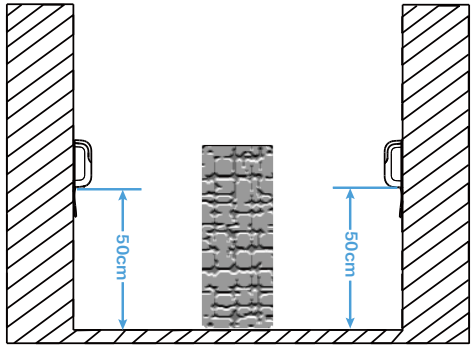
After photocell installation and wiring are completed, you can test the photocells by performing the following operations on the gate opener.

There may be different types of gate openers and gates. The gate opener and gate illustrations in this user manual are for reference only. For more details, please refer to the user manual of your gate opener.

1. Press the “IR” button on the gate opener.



2. The IR indicator becomes solid red, indicating that the gate opener has entered the infrared self-testing mode.
3. Put an obstacle between the photocells to check that the IR indicator becomes slow-flashing red.



4. Remove the obstacle to check that the IR indicator returns to solid red.
5. Press the “IR” button again to exit the infrared self-testing mode.
6. The IR indicator dims, meaning that the gate opener has successfully exited the infrared self-testing mode.

If the test succeeds, it indicates that the photocells are installed correctly and can function as expected.

Technical Data

Item	Description
Power supply	DC12V
Maximum rated power	0.8 W (TX&RX)
Distance	8m MAX
Operation conditions	-30°C to 60°C, humidity 95% or less (non-condensing)
Protection rating	IP55

Information for Private Households

1. Separate collection of waste equipment: Electrical and electronic equipment that has become waste is referred to as waste equipment. Owners of waste equipment must dispose of it separately from unsorted municipal waste. In particular, waste equipment does not belong in household waste, but in special collection and return systems.
2. Batteries and rechargeable batteries as well as lamps: Owners of waste equipment shall, as a rule, separate waste batteries and rechargeable batteries that are not enclosed in the waste equipment, which can be removed from the waste equipment without being destroyed, from the waste equipment before handing them in at a collection point. This does not apply if waste equipment is prepared for reuse with the participation of a public waste management authority.
3. Options for returning waste equipment: Owners of waste equipment from private households can return it free of charge to the collection points of the public waste management authorities or to the take-back points set up by manufacturers or distributors within the meaning of the Electrical and Electronics Equipment Law. Stores with a sales area of at least 400 m² for electrical and electronic equipment and those grocery stores with a total sales area of at least 800 m² that offer electrical and electronic equipment several times a year or on a permanent basis and make it available in the market are required to take it back. This also applies in the case of distribution using means of distance communication, if the storage and shipping areas for electrical and electronic equipment are at least 400 m² or the total storage and shipping areas are at least 800 m². Distributors shall, in principle, ensure take-back by providing suitable return facilities at a reasonable distance from the respective end user. The possibility of returning waste equipment free of charge exists for distributors who are obliged to take it back, among other things, if a new similar device that essentially fulfills the same functions is delivered to an end user.
4. Privacy Notice: Waste equipment often contains sensitive personal data. This applies in particular to devices of information and telecommunications technology such as computers and smartphones. In your own interest, please note that each end user is responsible for deleting the data on the waste equipment to be disposed of.
5. Meaning of the symbol “crossed-out wheelie bin”: The symbol of a crossed-out wheelie bin regularly depicted on electrical and electronic equipment indicates that the respective device is to be collected separately from unsorted municipal waste at the end of its service life.

Limited Warranty

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Your EZVIZ product is warranted for a period of two (2) or three (3) years from the date of first purchase against defects in materials and workmanship, when used normally in accordance with user manual, or such longer period as may be required by law in the country or state where this product is sold. NOTE THAT the warranty period provided by EZVIZ may vary depending on the country or state where this product is sold. To ensure your rights and interests are guaranteed to the maximum extent, please refer to the official EZVIZ website https://support.ezviz.com/download for your country/region for the warranty policies applicable to your products, or contact our Customer Service for more information.

For any defective EZVIZ products under warranty, EZVIZ will, per your request and subject to the condition of the product, at its option decide whether to (i) repair or replace your product free of charge; (ii) exchange your product with a functional equivalent product; or (iii) refund the original purchase price, provided you provide the original purchase receipt or copy, a brief explanation of the defect, and return the product in its original packaging. At EZVIZ’s sole discretion, and within the limits of applicable law, repair or replacement may be made with a new or refurbished product or components. This warranty does not cover the shipping cost, insurance, or any other incidental charges incurred by you in returning the product.

Except where prohibited by applicable law, this is your sole and exclusive remedy for breach of this warranty. Any product that has been repaired under this warranty will be covered by the terms of this warranty for the longer of six (6) months from the date of delivery or the remaining original warranty period, or any extension period required by applicable law, whichever is longer. To clarify, please note that unless otherwise specified by applicable law in your country / region, any extension applies only to the first repair. In the event of a replacement of the product, your product will be warranted for a renewal of the legal guarantee of conformity.

This warranty does not apply and is void:

- If the warranty claim is made outside the warranty period or if the proof of purchase is not provided;
- For any malfunction, defect, or failure caused by or resulting from the evidence of impact; mishandling; tampering; use contrary to the applicable instruction manual; incorrect power line voltage; accident; loss; theft; fire; flood; or other Acts of God; shipping damage; or damage resulting from repairs performed by unauthorized personnel;
- For any consumable parts, such as batteries, where the malfunction is due to the normal aging of the product;
- Cosmetic damage, including but not limited to scratches, dents and broken plastic on ports;
- Any software, even if packaged or sold with EZVIZ hardware;
- For any other damages free from defects in material or workmanship;
- Routine cleaning, normal cosmetic and mechanical wear and tear.

Please do not hesitate to contact your seller or our Customer Service, with any questions.