ZiFiSense

ZETA®Low-Power Wide Area Networks

ZETA Dry Contact Sensor

Copyright Statement

Disclaimer

ZETA Dry Contact Sensor

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1. Product Description

ZETA Dry Contact Sensor uses electrodes to detect the dry contact signal and generates alarm. Otherwise it remains in standby mode with ultra-low power consumption when there is no such signal triggered.

2. Applications

Building property and industry where dry contact sinals are need to be detected.

3. Appearance

4. Features

✓ Wireless transmission
✓ Battery-powered, low power consumption
✓ Easy to install, high sensitivity
✓ Reliable detection
✓ Real-time transmission

5. Specifications

Product No.	OCZ1ZT92	
Wireless Features	Transmission protocol	ZETA
	Frequency band	920-925 MHz
	Output power	20±3 mW
Electrical Features	Power supply	Battery, 2*ER14505
	Battery capacity	2*2700 mAh
	Stand-by current	≤ 10 µA
	Working current	≤ 70 mA
Physical Features	Size	66*55*36 mm
	Enclosure material	ABS
	Waterproof level	IP30
	Antenna	External glue stick antenna
Working Environment	Operating temperature	-20℃~+75℃
	Storage temperature	-30℃~+85℃

6. Packing List

ZETA Dry Contact Sensor	1
Battery	2

7. Installation

There are three installation methods: Screw, 3M Adhesive and cable ties.

7.1. Screw

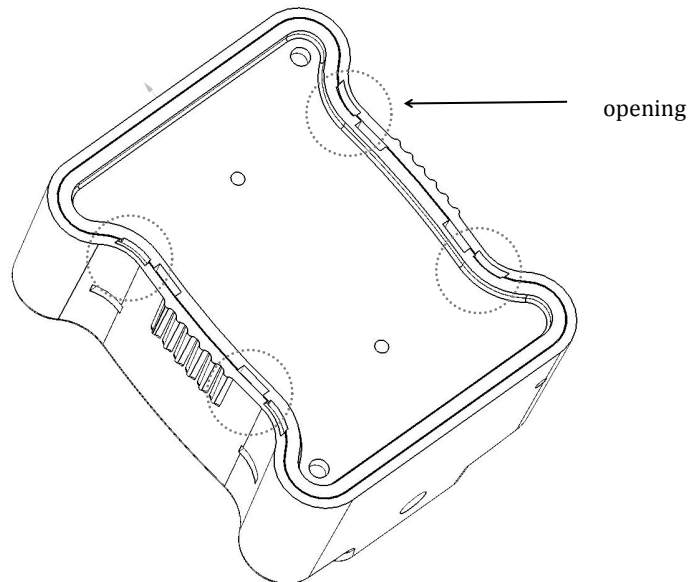### 7.1.1.Auxiliary material

No.	Materials	Quantity
1	self tapping screw (M3*20)	2/device
2	#4 expanded plastic pipe	2
3	Percussion drill，#4 drill bit，hammer	1
4	slotted screwdriver, cross screwdriver	1

7.1.2.Installation instructions

➢ Open the device case

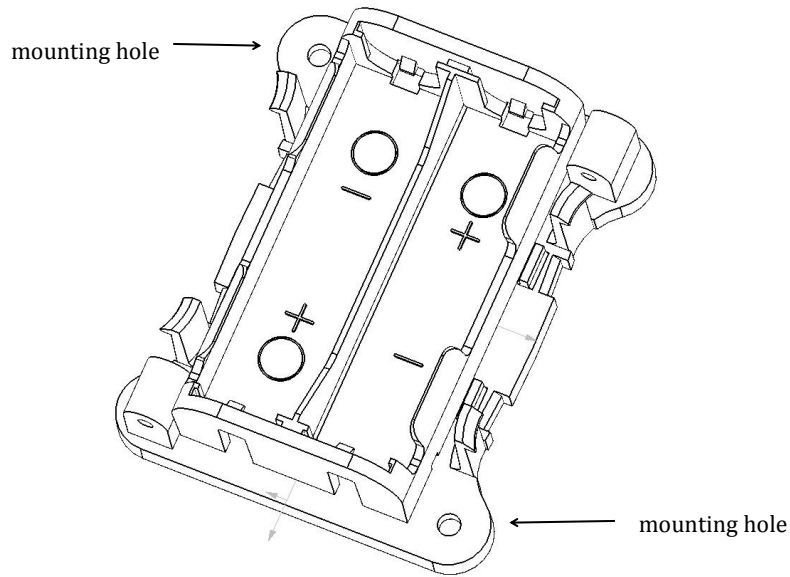Use a slotted screwdriver to open the top cover from the bottom edge.

➢ Punching

Place the device in the mounting position, punch and insert the expanded plastic pipe.
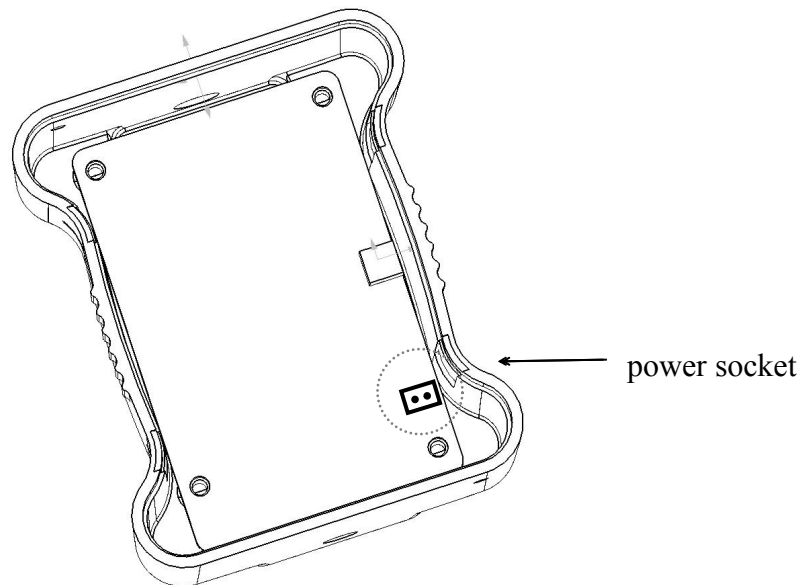
➢ Fixation

Use the self-tapping screws to secure the device in the mounting position.

mounting hole

mounting hole

➢ Power on

Insert the power plug into the upper power socket, install two 14505 batteries (remove the insulation sheet for the existing battery), and close the upper cover.

power socket

7.2. Adhesive 3M

7.2.1.Auxiliary material

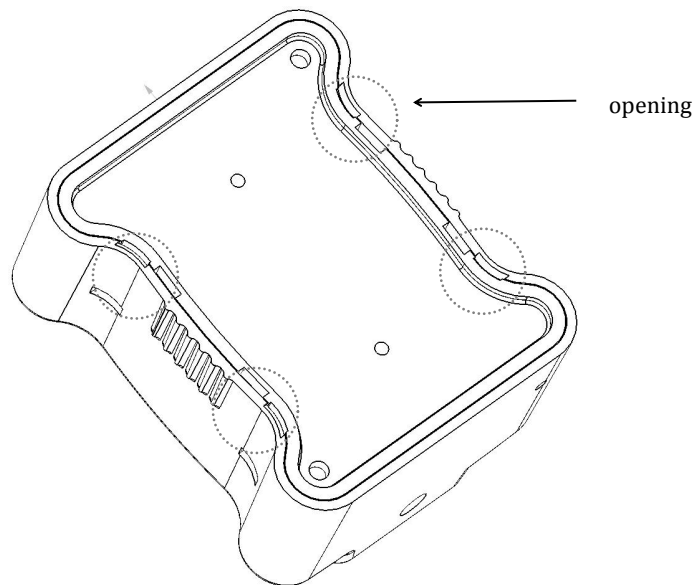| No.	Materials	Quantity
1	3M seamless thickened double-sided adhesive	5CM
2	Slotted screwdriver, utility knife	2

7.2.2.Installation instructions

➢ Installation position
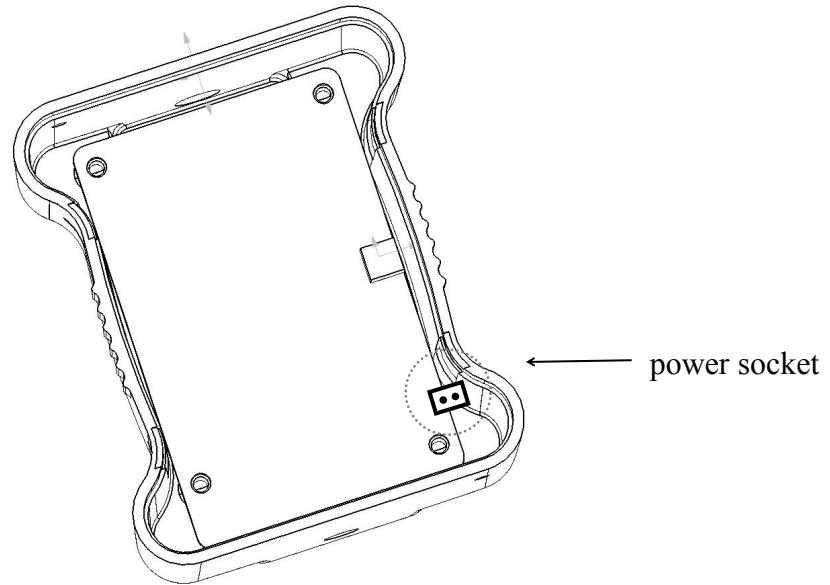Select a flat mounting position, and clean it up.

➢ Open the device case
Use a slotted screwdriver to open the top cover from the bottom edge.

opening

➢ Power on
Insert the power plug into the upper power socket, install two 14505 batteries (remove the insulation sheet for the existing battery), and close the upper cover.

power socket

➢ Adhesive device

Take the appropriate amount of 3M adhesive, attach it to the back of the sensor, remove the protective film of the 3M adhesive, and install the device to the specified position.

7.3. Cable Ties

7.3.1.Auxiliary material

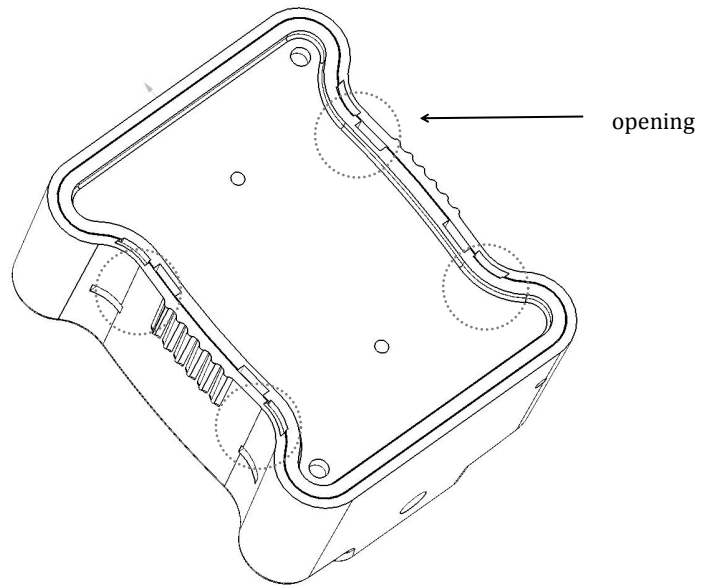| No.	Materials	Quantity
1	Metal cable ties（5*300mm)	2
2	Slotted screwdriver, utility knife	

7.3.2.Installation instructions
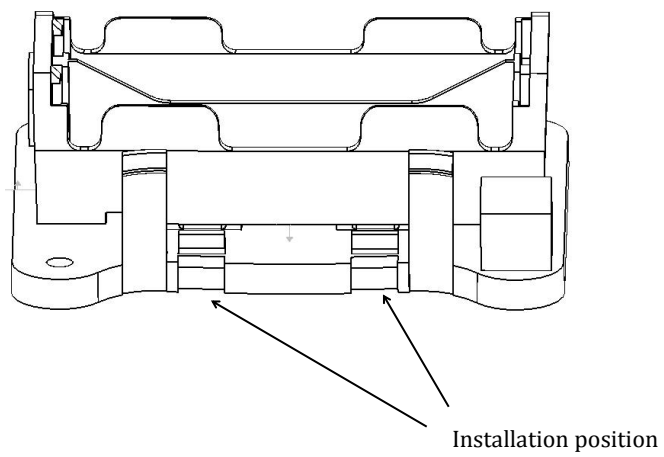
➢ Open the device case

Use a slotted screwdriver to open the top cover from the bottom edge.
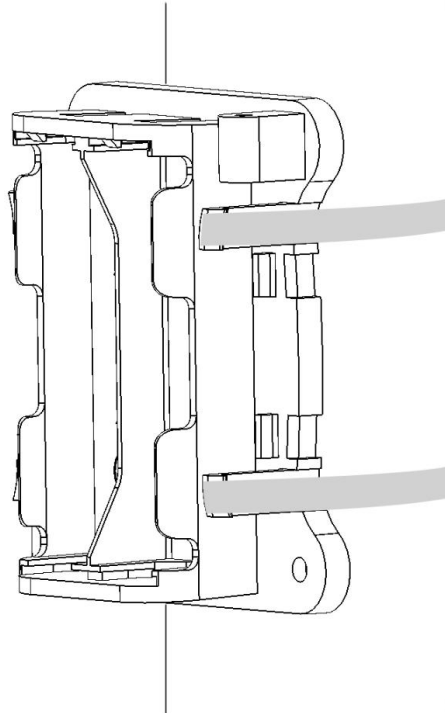
ZETA Dry Contact Sensor

opening

> ➢ Fixation

Pass the 2 cable ties through the device and secure to the installation rod

Installation position
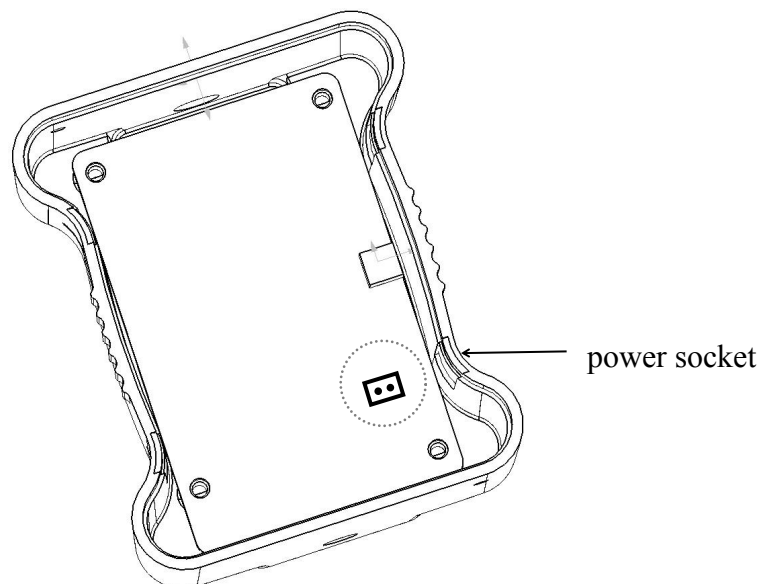
➢ Power on

Insert the power plug into the upper power socket, install two 14505 batteries (remove the insulation sheet for the existing battery), and close the upper cover.

power socket

8. Use of Device

8.1. Steps for usage

- Place the device within the coverage of the ZETA network
- Install the battery, and wait for the device to go online.
- After the device is online, the current device status is reported.
- According to the usage scenario, set the policy configuration such as heartbeat reporting cycle.
- Daily maintenance and data viewing.

8.2. Support function

- Version number: Report the software version number of the sensor only once after power-on.
- Status report: Report status data periodically according to the setting.
- Set/Query report heartbeat period: can set or query the dry contact status reporting cycle. (Range: 1~65535 min, default: 2*60min)
- Set/Query acquisition period: The period of which the device collects sensor information (range: 0-65535 seconds, when the value is 0, it means real-time acquisition).
- Query status: Actively query the current status of the device, including current light intensity, alarm enable information.
- Query version number: You can query the software version number of the current sensor.

9. Common faults and handling

- Ensure ZETA signal coverage
- Ensure that the device is powered on, and the ZETA network device management platform can observe that the ZETA module is on line
- Check the battery usage of the device. When the battery is low, replace the battery in time.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

This device complies with FCC PART15 Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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