



ZETA®Low-Power Wide Area Networks

ZETA Smart Door Sensor

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DMZ3ZT92

Table of Contents

1. Product Description.....	4
2. Applications.....	4
3. Appearance.....	4
4. Features.....	4
5. Specifications.....	5
6. Packing List.....	5
7. Use of Device.....	6
7.1. Steps for usage.....	6
7.2. Support function.....	6
8. Common faults and handling.....	7

1. Product Description

ZETA Smart Door Sensor is a low power high-precision magnetic-sensitive Hall sensor, which detects the opening and closing of the door in real time without mechanical aging problems. It can be used for alarms in the computer room, control cabinet, and access control area with adjustable alarm level to achieve multi-level alarm.

2. Applications

Door opening and closing motion detection

3. Features

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

4. Specifications

Product No.	DMZ3ZT92	
Wireless Features	Transmission protocol	ZETA
	Frequency band	Sub-GHz, adjustable according to local regulations
	Output power	20dBm max, adjustable according to local regulations
Electrical Features	Power supply	ER14505 battery *2
	Battery capacity	2700*2 mAh
	Stand-by current	≤ 5 μA
	Working current	≤ 70 mA
Physical Features	Size	115*77*34mm (main body) 65*12*13mm (magnetic stripe)
	Enclosure material	ABS
	Waterproof level	IP64
	Antenna	External glue stick antenna
Sensor Features	Magnetic stripe sensing distance	≤1cm
Working Environment	Operating temperature	-20°C ~ +75°C
	Storage temperature	-30°C ~ +85°C

5. Packing List

ZETA Smart Door Sensor	1
Battery	2

6. Use of Device

The alarm information of the Smart Door sensor is divided into four levels: level 0, level 1, level 2 and level 3. A level 0 alarm indicates that the alarm is reported as soon as the door is opened, while the remaining three levels indicate the alarm generated after the door is opened for more than a certain time. The time when the alarm is generated can be set. For details, refer to the alarm threshold setting in chapter 7.2.

6.1. 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.
- You can try to open and close the door to check whether there is alarm information reported, check whether the sensor can work normally, and whether the installation position of the magnetic strip is suitable (note that you need to turn on the level 0 alarm enable).According to the usage scenario, set the policy configuration such as heartbeat reporting cycle.
- According to the usage scenario, set the policy configuration such as alarm enable status and alarm threshold.
- Daily maintenance and data viewing.

6.2. Support function

- Version number: Report the software version number of the sensor only once after power-on.
- Status report: Report door sensor status
- Set/Query report heartbeat period: can set or query the status reporting cycle. (Range: 1~24h)
- Set/Query Alarm Threshold: Set the base number of the first-level alarm and the multiple numbers of the second-level alarm.

Example:

Set base number as 5min, and multiple number as 3. Hence:

Level 1 alarm: 5 min

Level 2 alarm: 15 min which is 5*3

Level 3 alarm: 30 min which is 5*3*2

Which means: when door opened for 5min, the Level 1 alarm will be reported. Then if the door is opened over 15min, the level 2 alarm will be reported, and level 3 alarm will be reported if the door is opened over 30min.

- Set/Query Alarm Enable: Set the enable of level 0, level 1, level 2, and level 3 alarms. If it is enabled, it means that the alarm is turned on, and if it is turned off, it means that the alarm is not reported.
- Query status: Query the current door status.
- Query version number: You can query the software version number of the current sensor.

7. 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 WARNING

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

This device complies with part 15 of the FCC 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.

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