



ZETA[®] Low-Power Wide Area Networks

ZETA Dry Contact Sensor

Dry Contact Sensor

Copyright Statement

ZiFiSense owns the copyright on this specification. No part of this specification may be reproduced in any form or means, without the prior written consent of ZiFiSense.

Disclaimer

This specification is preliminary and is subject to change at any time without prior notice. ZiFiSense assumes no responsibility for any errors contained herein. ZiFiSense is not responsible for any patent infringement of third party on its use or as a result of its uses. Other products/services not certified by the patent license, shall be deemed within patent ownership of ZiFiSense.

Dry Contact Sensor

Table of Contents

1. Product Description.....	4
2. Applications.....	4
3. Appearance.....	4
4. Features.....	4
5. Specifications.....	5
6. Packing List.....	5
7. Installation.....	6
7.1. Screw.....	6
7.2. Adhesive 3M.....	6
7.3. Cable Ties.....	6
8. Use of Device.....	6
8.1. Steps for usage.....	6
8.2. Support function.....	6
9. Common faults and handling.....	6

Dry Contact Sensor

1. Product Description

Conversion of mechanical travel signals into wireless signals by means of magnetic induction. Enables remote monitoring of the sensor status. The product meets the explosion-proof requirements of Zone 1. Suitable for industrial and chemical scenarios.

.

2. Applications

Pipeline Settlement Monitoring and other industrial application scenarios where mechanical signals are converted to electronic signals

3. Appearance



4. Features

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

Dry Contact Sensor

5. Specifications

Product No.	MCZ1ZT92	
Wireless Features	Transmission protocol	ZETA
	Frequency band	920-925MHz
	Output power	20±3 mW
Electrical Features	Power supply	Battery, 2*CR17450A-2
	Battery capacity	5000 mAh
	Stand-by current	≤ 10 μA
	Working current	≤ 80 mA
Physical Features	Size	60*80*68mm (with antenna)
	Enclosure material	PP
	Waterproof level	IP54
	Antenna	External glue stick antenna
Working Environment	Operating temperature	-20℃ ~+75℃
	Storage temperature	-30℃ ~+85℃

6. Packing List

Dry Contact Sensor	1
Battery	1 pack

7. Use of Device

7.1. 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 alarm enable status and alarm threshold.
- Daily maintenance and data viewing.

7.2. Support function

Detection function

When the user's strong magnetism moves through the stroke and falls into the sensor detection area, the sensor triggers an alarm. At this time, the indicator light starts to flash, and the alarm message is uploaded to the cloud platform via wireless.

Software function

- Report version number
- Set the status reporting period
- Set alarm reporting period
- Set alarm enable and threshold
- Set detection cycle

Indicator function

- Flashing when alarming-50ms every 1s

8. 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.

Shanghai, China

Room B, 20th Floor, No. 1098
Dongdaming Road (Pujiang
International Financial Plaza),
Hongkou District, Shanghai
+86 (0) 21-61320820

Xiamen, China

Room 803, Building A-05,
Software Park Phase III, Jimei
Distric, Xiamen, P.R. China
+86 (0) 592 6070310

Cambridge, UK

3 Charles Babbage Road,
Cambridge, CB3 0GT
United Kingdom
+44(0) 1223 491 099

Connected Intelligence, Anytime Anywhere