

Datasheet

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History

Version	Date	Note
0.1	2017-8-9	Initial Release

Notes:

Hardware Version: V1.1

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Window / Door Sensor



Fig.1 R311A Appearance

Door/Window Sensor**Introduction**

When the window is opened, Z311A sends alarm message to the control center. Z311A utilizes the latest ultra-low power consumption technology and requires no wiring. It requires just button batteries to support its operation.

The communication method meets Lora protocol standard.

Electric Parameters

Input power	2pcs 3.0V CR2450 button battery
Working power	DC +2.2V~3.0V
Standby current	13uA/3.0V
Transmitting current (max)	120mA/3.0V
Receiving current (max)	11mA/3.0V

Frequency Parameters

Frequency range	410-525MHz 862-1020MHz (Optional)
TX power	19dBm (Typical)
Rx sensitivity	-121dBm (Frequency deviation=5kHz, Bit Rate=1.2kb/s)
Antenna type	Build-in antenna
Communication rang	2km (Typical)
Data transfer rate	1.2~300kbps
Spread technique	FSK/OOK

Physical Parameters

Sensor Dimension	57mm x 35mm x 15mm
Magnet Dimension	43mm x 13mm x 12mm
Humidity	<95%RH
Working Temp.	-10° C ~ 50° C
Storage Temp.	-40° C ~ 85° C