Wireless 2-Input Push Button Interface

Wireless Sensor Network Based on LoRa Technology

R718T2

Data Sheet

Wireless 2-Input Push Button Interface

Introduction

The Wireless 2-Input Push Button Interface allows a notification signal to be sent when connected push button is pushed. When someone is in danger and needs emergency assistance, press the emergency push button device; R718T2 immediately sends an alarm message to the gateway.

Main Characteristic

- Adopt SX1276 wireless communication module
- Compatible with LoRaWAN™ Class A
- IP rating: IP67
- Frequency hopping spread spectrum (FHSS)
- The base is attached with a magnet that can be attached to a ferromagnetic material object
- Configuration parameters can be configured through third-party software platforms, data can be read and alarms can be set via SMS text and email (optional)
- Applicable to the third-party platforms: Actility/ThingPark, TTN, MyDevices/Cayenne
- Low power consumption and long battery life

Note:

Battery life is determined by the sensor reporting frequency and other variables, please refer to http://www.netvox.com.tw/electric/electric_calc.html
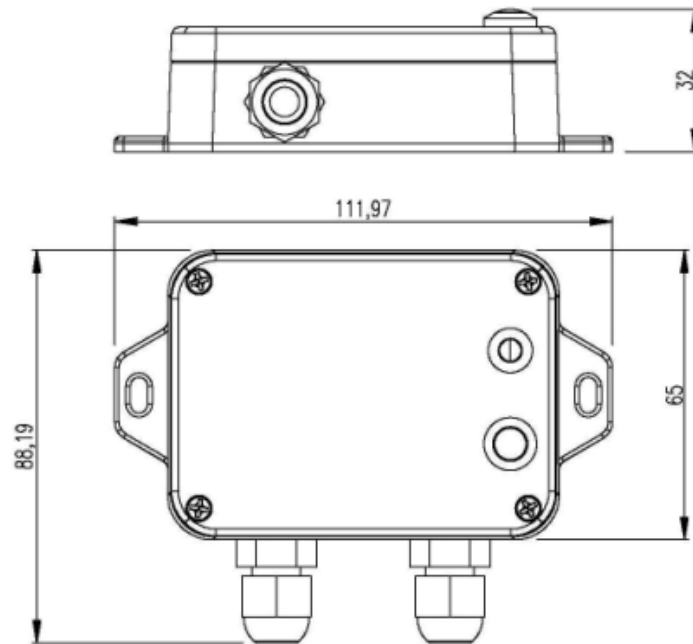
On this website, users can find battery life of various models in different configurations.

Application

- Customer service request button
- Hotel/ motel front desk call button
- Bathroom needs cleaning (service call button)
- Access call button

Wireless 2-Input Push Button Interface

Dimension

Yellow Segment : Magnet

Electric

Input Power	2 x 3.6V ER14505 AA lithium batteries (3.6V 2400mah/section)
Sleeping Current	24uA
Wakeup Current	6.3mA/ 3.3V
Transmitting Current (max)	11mA/ 3.3V
Receiving Current (max)	120mA/ 3.3V
Battery Measurement Accuracy	± 0.1V
Low Voltage Threshold	3.2V

* Specific electrical characteristics may vary depending on the power supply voltage

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Frequency

TX Power	19dBm±1dBm
Receiving Sensitivity	-136 dBm (LoRa, Spreading Factor=12, Bit Rate = 293bps) -121 dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Build-in antenna
Communication Distance	10 km (Visible linear obstacle-free transmission distance, actual transmission distance depending on the environment.)
Data Transfer Rate	0.3kbps ~ 50kbps
Modulation	LoRa / FSK (Note: choose one of them)
Supportable LoRaWAN Frequency	EU863-870, US902-928, AU915-928, KR920-923, AS923-1, AS923-2, AS923-3, IN865-867,CN470-510 (Note: The frequency band is optional and needs to be configured before shipment.)

Physical

Dimension	Main Part: L: 112 mm x W: 65 mm x H: 32 mm
Weight	150g
Environment Humidity Range	<90 %RH (No condensation)
Operating Temperature	-20°C to 55 °C
Storage Temperature	-40°C to 85 °C