Wireless 2-Input Push Button Interface R718T2 Data Sheet

Wireless Sensor Network Based on LoRa Technology

R718T2

netvox™ R718T2

Wireless 2-Input Push Button Interface

General Description

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.

Principle of Operation

The device can be connected to an external emergency push button device (2 lines connected to the 2 end of the emergency switch button) that can detect the on or off signal of the emergency switch button. It uses the SX1276 wireless communication module.

Example Applications

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

Features of NETVOX Sensors

- LoRaWAN™ Class A compatible
- Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Improved power management for longer battery life
- Encrypt-RF™ Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- Battery Life*2:
  Please refer to web: http://www.netvox.com.tw/electric/electric_calc.html
  At this website, users can find battery life time for varier models at different configurations.
- Over-the-air updates (future)
- Third-Party online wireless sensor monitoring and notification system to configure sensors, view data and set alerts via SMS text and email (optional)
- Available third-party platform: Actility/ThingPark, TTN, MyDevices/Cayenne
- R718X series carry magnets which can be attached to ferromagnetic materials and objects

*1. Actual range may vary depending on environment.
*2. Battery life is determined by sensor reporting frequency and other variables

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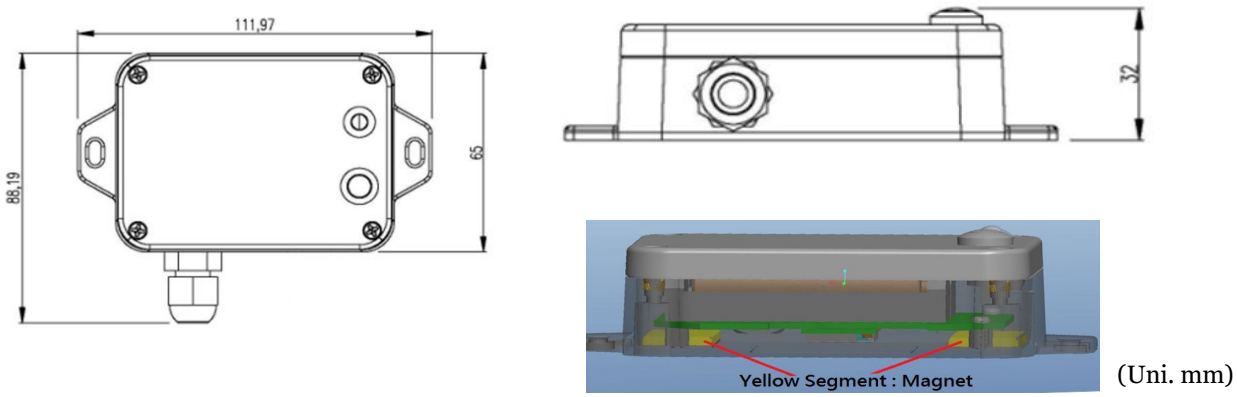
Technical Specifications (Main Part)



(Uni. mm)

Electric

Input Power	2 x 3.6V ER14505 AA lithium batteries (3.6V2400mah/section）
Sleeping Mode	24uA
Wake up Mode	6.3mA@3.3V
Receiving Current (max)	11mA @3.3V
Transmitting Current (max)	120mA/3.3V
Battery Voltage Measurement Accuracy	±0.1V
Low Voltage Threshold	3.2V

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

Frequency

TX Power	19dBm±1dBm
Rx Sensitivity	-136dBm (LoRa，Spreading Factor=12, Bit Rate=293bps) -121dBm (FSK,Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Build-in antenna
Communication Range	Up to 10 km, the actual transmission distance depends on the environment.
Data Transfer Rate	0.3kbps～50kbps
Spread Technique	LoRa/FSK
Available Frequency	EU863-870, US902-928, AU915-928, KR920-923, AS923, CN470-510 (Configured before shipment)

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Physical

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

Contact:

NETVOX TECHNOLOGY CO., LTD.

TEL: 886-6-2617641
FAX: 886-6-2656120
E-mail: sales@netvox.com.tw
WEB: www.netvox.com.tw

NETVOX TECHNOLOGY CO., LTD (XIAMEN)
TEL: 86-592-5717188
FAX: 86-592-5717180
E-mail: dyx@netvox.com.cn
WEB: www.netvox.com.cn