



Door Contact Sensor RF Transmitter

Features

- Magnetic Door Switch Sensor c/w Radio Transmitter
- Monitor Real Time on Smartphone/PC anywhere with RIoT Hub
- Radio Transmitter FSK/FHSS LoRa
- LoRa Mode Up to 6Km Range
- FM Range upto 1Km
- Auto Send Trigger Level Alerts to:
 - To Local Switching RF Receiver
 - Android Smartphone via RIoT Hub
- Power 2 x AAA Battery (supplied) or
- 5 - 15Vdc Supply via Screw Terminals
- Battery Life > 1 Million Transmissions
- Weatherproof IP68 Enclosure



Description

Supplied ready to deploy, this RIoT Sensor transmitter can be used to monitor a Door/ Window or other opening/closing device and automatically transmit an RF signal. When a change is detected an immediate signal is sent to alert the user and can also directly trigger a local RF Receiver to provide a local Relay changeover switch. Used in conjunction with a RIoT hub the user can monitor the status on a Smartphone / PC via the internet anywhere in the world. Trigger levels can be set to directly activate a local RF Receiver (which provides switching relay contacts), and alert notification sent to an Android smartphone.

Ordering Information

Part Number	Description
SEnw-DC-8T1	Door Contact Transmitter 868MHz
SEnw-DC-9T1	Door Contact Transmitter 918MHz

RIoT Door Contact RF Transmitter



Application example



Technical Specification:

Dimensions	Main Enclosure: 92 x 92 x 59mm Surface Mounting Door Contact: 68 x 15 x 13mm
Operating Temperature:	0 to +70°C (limited by battery)

Electrical Characteristics	Min	Typical	Max	Units
Supply Voltage				
Battery	2.8	3	3.3	Vdc
External Supply	5		15	
Operating Frequency		869.500 918.000		MHz
RF Output power			+22	dBm
Supply Current:				
Whilst Asleep (between taking readings)		5		uA
Whilst Transmitting		118		mA
Supply Current: Receiving Data		13		mA
RF Packet TX Transmit operation:				
FM		20		mSecs
LoRa Mode 7 (Longest Time)		1.28		

Battery Life (Estimated)

Depends on several factors;

- The time interval between RF Transmissions
- FM / FHSS LoRa Mode
- The ambient Temperature

*Battery life calculations are theoretical, actual battery life may vary

Operations	FSK	FHSS (LoRa)
1 per Min	8 months	3 months
2 per Hour	19 years*	7 years
1 per Hour	39 years*	10 years

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