





Wireless Open / Closed Sensor

General Description

The Wireless Open / Closed Sensor can be used to detect when a door or window is opened and closed using a magnetic switch.

Features

- Detects when a door or window is accessed.
- · Magnet is included.



Online wireless sensor monitoring and notification system to configure sensors, view data and set alerts via SMS text and email.

Principle of Operation

The Wireless Open / Closed Sensor uses an external magnetic switch to detect the presence or removal of a trigger magnet. When the sensor detects that the magnet is removed or returned it sends the information to the Online Sensor Monitoring and Notification System. The data is stored in the online system and can be reviewed and exported as a data sheet or graph. Notifications can be set up through the online system to alert the user when a magnetic source is present or not with the ability to only notify within time of day parameters.

Example Applications

- Doors and windows.
- Cabinets and lockers.
- IT server closets.
- · Freezer and cooler doors.

And many more...

Sensor Core Specifications

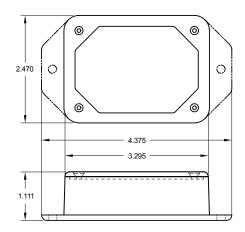
- Wireless Range: 250 300 ft. (non-line-of-sight / indoors through walls, ceilings & floors) *
- RF Communication: 900, 920, 868 and 433 MHz
- Power: Replaceable batteries (optimized for long battery life, line-power and solar (Industrial only) options are available)
- · Battery Life (at 1 hour heartbeat setting): **

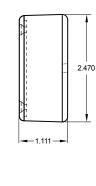
AA battery > 4-8 years Industrial > 4-8 years

** Battery life is determined by sensor reporting frequency and other variables.

Wireless Open / Closed Sensor (AA)





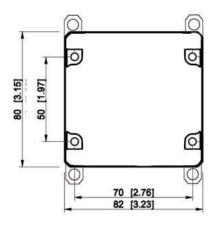


Technical Specifications	
Supply Voltage	2.0 - 3.6 VDC (3.0 - 3.6 VDC Using Power Supply) *
Current Consumption	 0.7 μA (sleep mode) 2 mA (radio idle/off mode) 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)
Operating Temperature Range (Board Circuitry and Batteries)	-18°C to 55°C (0°F to 130°F) using alkaline -40°C to 85°C (-40°F to 185°F) using lithium **
Optimal Battery Temperature Range (AA)	+10°C to +50°C (+50°F to +122°F)
Weight	3.8 oz.
Wireless Range	250 - 300 ft. (Through walls, ceilings and floors) Range may vary according to environmental variables
Certifications Fⓒ C€ I→ Industry ⊕ Canada	900 MHz product; FCC ID: ZTL- RFSC1 and IC: 9794A-RFSC1. 920 MHz product; ARIB STD-T108 R210-103733. 868 and 433 MHz product tested and found to comply with: CISPR 22:2008-09 / EN 55022:2010 - Class B and ETSI EN 300 220-2 V2.4.1 (2012-05).

Magnetic Switch Specifications		
Contact Type	SPST, gold under -plating with Deactivated Rhodium outer-plating	
Switch Cycles	50 million	
Operation Gap	Up to 3/4 inch	
Wire Leads	22 gauge / 13.5 in length (± 1.5 in)	
Magnet	Alnico	
Magnet Case Construction	Weatherproof, high-impact ABS plastic with self-adhesive backing	
Magnet Temperature Range	-15°F to 160°F (-25°C to 70°C)	

Wireless Open / Closed Sensor (Industrial)





Technical Specifications				
Supply Voltage			2.0 - 3.6 VDC *	
Current Consumption			0.7 μA (sleep mode) 2 mA (radio idle/off mode) 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)	
Operating Temperature Range (Board Circuitry and Battery)				
Included Battery	Max Temperature F	Range:	-40°C to +85°C (-40°F to +185°F) **	
	Capacity:		1500 mAh	
Optional Solar Feature	Solar Panel:		5VDC / 30mA (53mm x 30mm)	
	Charging Temperature Range:		0° to 45°C (32° to 113°F)	
	Max Temperature F	Range:	-20° to 60°C (-4° to 140°F)	
	Included Recharge	eable Battery:	600 mAh / >2000 Charge Cycles (80% of initial capacity)	
	Charging efficiency	/	5% ***	
	Luminous sustaina	bility	Minimum of 10,000 LUX ***	
Enclosure Rating			NEMA 1, 2, 4, 4x, 12 and 13 rated, sealed and weather proof	
UL Rating			UL Listed to UL508-4x specifications (File E194432)	
Weight			4.8 oz	
Wireless Range			250 - 300 ft. (Through walls, ceilings and floors) Range may vary according to environmental variables.	
Certifications FC CE Industry Canada			900 MHz product; FCC ID: ZTL- RFSC1 and IC: 9794A-RFSC1. 920 MHz product; ARIB STD-T108 R210-103733. 868 and 433 MHz product tested and found to comply with: CISPR 22:2008-09 / EN 55022:2010 - Class B and ETSI EN 300 220-2 V2.4.1 (2012-05).	
Magnetic Switch Sp	ecifications			
Contact Type SPST, gold under		SPST, gold und	ler -plating with Deactivated Rhodium outer-plating	
Switch Cycles 50 million		50 million		
Operation Gap Up to 3/4 inch		Up to 3/4 inch		
Wire Leads 22 gauge / 13.5		22 gauge / 13.5	5 in length (± 1.5 in)	
Magnet Alnico		Alnico		
Magnet Case Construction Weatherproof, I		Weatherproof, I	high-impact ABS plastic with self-adhesive backing	
Magnet Temperature Range -15°F to 160°F		-15°F to 160°F	(-25°C to 70°C)	

Notes

Commercial Grade Sensors

Commercial grade sensors are designed for applications in ordinary environments (normal room temperature, humidity and atmospheric pressure). Do not use these sensors under the following conditions as these factors can deteriorate the product characteristics and cause failures and burn-out.

- Corrosive gas or deoxidizing gas chlorine gas, hydrogen sulfide gas, ammonia gas, sulfuric acid gas, nitric oxides gas, etc.).
- · Volatile or flammable gas.
- · Dusty conditions.
- · Under low or high pressure.
- · Wet or excessively humid locations.
- Places with salt water, oils chemical liquids or organic solvents.
- · Where there are excessively strong vibrations.
- · Other places where similar hazardous conditions exist.

Use these products within the specified temperature range. Higher temperature may cause deterioration of the characteristics or the material quality.

Industrial Grade Sensors - Type 1, 2, 4, 4X, 12 and 13 NEMA Rated Enclosure

Industrial sensors are enclosed in reliable, weatherproof NEMA rated enclosures. Our NEMA rated enclosures are constructed for both indoor or outdoor use and protect the sensor circuitry against the ingress of solid foreign objects like dust as well as the damaging effects of water (rain, sleet, snow, splashing water, and hose directed water).

- · Safe from falling dirt.
- · Protects against wind-blown dust.
- · Protects against rain, sleet, snow, splashing water, and hose directed water
- · Increased level of corrosion resistance
- · Will remain undamaged by ice formation on the enclosure