

PRODUCT PROFILE # 567B

WGS / WGR

Wireless Gate Sensor with NEMA 4X Enclosure / 4-Zone Wireless Receiver with 4 Relay Outputs



The Wireless Gate Sensor (Part #WGS) is designed to detect cutting and climb-over attempts on perimeter sliding gates. This sensor is battery operated, requiring two-(2) AA alkaline batteries and contains an integrated wireless transmitter, enabling transmission of sensor, low battery and tamper alarms.

To optimize sensor performance, the Wireless Gate Sensor should be mounted near the center of the sliding gate. The sensor contains four-(4) detection sensitivity settings to help mitigate differences in fencing age and composition. Once installed, the user should select the sensitivity setting that provides the highest detection performance with the lowest rate of nuisance alarms.

A corresponding Wireless Receiver (Part #WGR) is designed to monitor up to four-(4) Wireless Gate Sensor units. Alarm annunciation from the receiver is provided via on-board Form-C dry relay contact outputs. These contacts can be wired to available inputs on the PM II, AIM II, PM-POE or AIM-POE, or directly to the User's alarm input panel / monitoring system.

The Wireless Receiver requires 12VDC power for operation. A battery-backed 12VDC power supply (minimum 500mA or larger) is recommended. While indoor mounting is recommended, the receiver may be mounted outdoors, in a temperature controlled, non-metallic, weatherproof enclosure that maintains a temperature between 0° and 60°C (provided by others).

Site-specific properties should be considered when selecting a mounting location for the Wireless Receiver. For best RF reception, the unit should be located as close to the Wireless Gate Sensor as possible. Walls, doors, floors, exterior vegetation and other obstacles may attenuate the RF signal from the Wireless Gate Sensor transmitter(s). Certain building construction materials (such as metal walls or studs) can also affect RF signal transmission. If the building is steel clad, the Wireless Receiver may need to be located near a window, preferably within line of sight of the Wireless Gate Sensor.

In an optimized, non-RF restrictive environment with a clear line of sight, the maximum distance between the Wireless Gate Sensor and Wireless Receiver units is approximately 500 feet (153m).

Please refer to Wireless Gate Sensor / Wireless Receiver Installation Guide for detailed mounting and configuration information for these devices.

Specifications: Wireless Gate Sensor (WGS) produced by Flair Security Products

Operating Voltage: 3.0 VDC

Internal DC Power Source: Two-(2) AA 1.5V batteries.

Power Consumption: 1mA (normal); 2mA (alarm).

Detection Range: Up to 50 linear feet (15m) of fence, maximum 25 feet (7.6m) on either side.

Transmitter Type: Frequency hopping spread spectrum.

Operating Frequency:

902-928 MHz (USA) – **default**

915-928 MHz (Australia)

921-928 MHz (New Zealand)

Alarm Outputs (Transmitted Wirelessly): Sensor Alarm, Low Battery, Tamper, Check-in Message

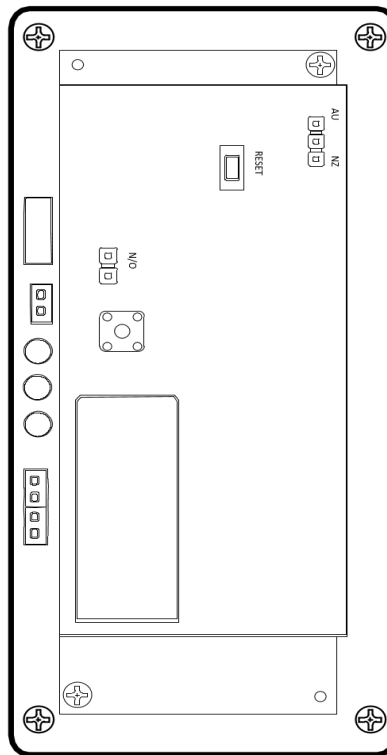
Alarm LEDs: Three-(3) internal – **for testing purposes only**

Operating Temperature: -4° to 131°F (-20° to 55°C)

Weight: 1.5 pounds (0.68 kg)

Enclosure: *UV Resistant, NEMA 4X, Polycarbonate Case, Certified UL94 5V. Mounting h/w included.*

Dimensions: 4.70 in (H) x 2.55 in (W) x 2.40 in (D) (11.94cm (H) x 6.48cm (W) x 6.10cm (D))



Wireless Gate Sensor (WGS), internal view

Specifications: Wireless Receiver (WGR) produced by Inovonics

Operating Voltage: 11-14 VDC. Use AWG #18-22.

Operating Range: No greater than 500 feet (153m) from each Wireless Transmitter, with clear line of sight.

Power Consumption: 400 mA.

Output Specifications:

Alarm: Four-(4) Form C relay outputs, 1A @ 28 VDC, 0.5A @ 30 VAC resistive load.

Fault: One-(1) Form C relay output, 1A @ 28 VDC, 0.5A @ 30 VAC resistive load.

Jam: One-(1) open collector (N/ C)

Case Tamper (Receiver): One-(1) open collector (N/O)

Receiver Type: Frequency hopping spread spectrum.

Operating Frequency:

902-928 MHz (USA) – **default**

915-928 MHz (Australia)

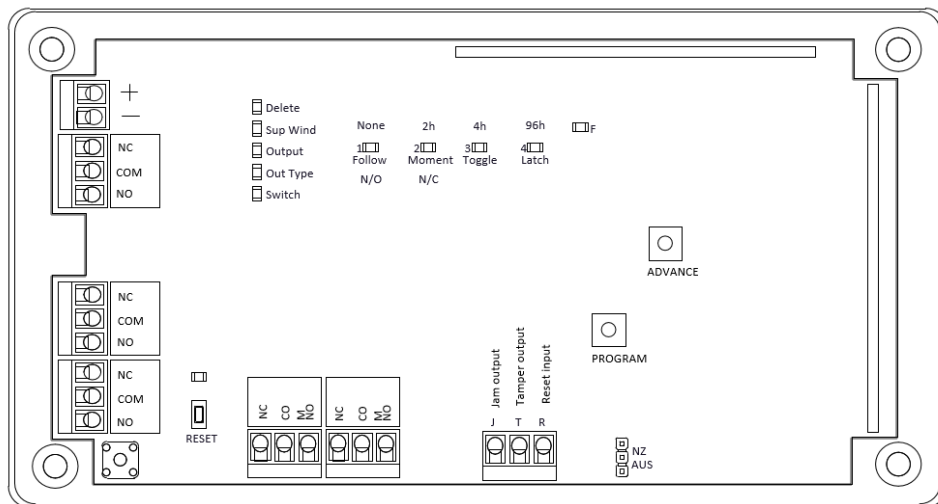
921-928 MHz (New Zealand)

Input specifications:

Reset: Open collector (N/O). Low is less than 0.5 V; high is greater than 2.5 V.

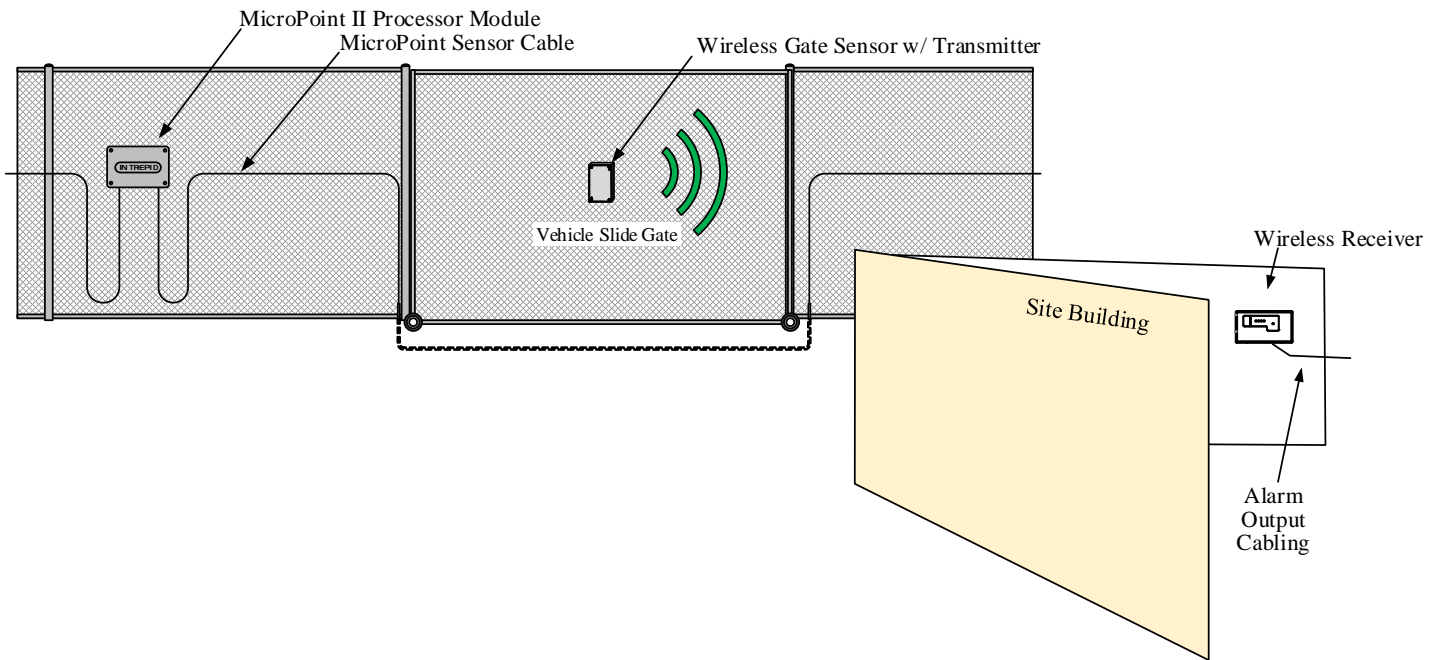
Enclosure: 3.60 in (H) x 6.38 in (W) x 1.10 in (D) (9.2 cm (H) x 16.2 cm (W) x 2.8 cm (D)).

Operating Temperature: 32°- 140°F (0°- 60°C), 90% relative humidity, noncondensing.



Wireless Receiver (WGR), internal view

Example Perimeter Detection System with Wireless Gate Sensor



In an optimized, non-RF restrictive environment with a clear line of sight, the maximum distance between the Wireless Gate Sensor and Wireless Receiver units is approximately 500 feet (153m).