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ESTACIONAMIENTOS INTELIGENTES

Buried Geomagnetic Wireless Parking Sensor



WBP-T10M

1. Keywords

Buried Dual-mode Geomagnetic Parking Detector; **Size:** $\Phi 113 \times 101$ mm in specification; **Function:** Adopts wireless microwave radar and geomagnetic dual judgment method, with high-precision detection of parking space status (detection accuracy over 99%), wireless communication, supports Bluetooth debugging and wireless upgrade, protection level IP68, strong compressive, corrosion-resistant and anti-interference abilities; **Usage:** Installed in the middle of the parking space, used for detecting parking space occupancy in outdoor parking guidance systems.

2. Product Introduction

The dual-mode geomagnetic parking detector is an important component of the outdoor parking guidance system. Dual sensing technology, with an accuracy rate of 99% for straight/non straight vertical parking spaces. The protection level is as high as IP68, and it is installed in the middle of the parking space. It has the characteristics of waterproofing, snow resistance, corrosion resistance, pressure resistance, and strong anti-interference ability, which can effectively cope with the harsh environment of outdoor parking spaces.

3. Product Features

1. Adopting wireless microwave radar and geomagnetic dual judgment method, advanced recognition algorithm, with a detection accuracy of over 99%.
2. Strong anti-interference ability, no impact on underground rail transit, cellar covers, base stations, metal support sunshades, etc.
3. Wireless communication eliminates wiring troubles and reduces construction difficulty.
4. The geomagnetic parking detector has a small external size and minimal damage to the parking space ground.
5. High strength shell design, with compressive and anti-corrosion characteristics, and long service life.
6. Adopting a protection design of up to IP68, it can effectively cope with various harsh environments in outdoor parking spaces.
7. Bluetooth debugging for mobile apps, convenient and simple. Convenient maintenance.

4. Technical Parameter

Product model:	WBP- T10M
Specifications and dimensions:	Φ113×101mm
Shell material:	Black PC+ABS+PA66
Protection level:	IP68
Net weight:	860g
Installation method:	Buried
Working temperature:	-40°C~+85°C
Pressure resistance:	20t
Wireless upgrade:	supports
Working voltage:	2.5~3.6V(built-in battery)
Battery Capacity:	38000mAh
Average current:	<50uA
Battery life:	can work for more than 5 years
Communication method:	LoRaWan/LoRa/NB-IoT Frequency band customizable
Communication Distance:	≤ 300m (supporting Lorawan gateway testing)
Detection Accuracy:	≥99%
Environmental humidity:	≤90%RH (non condensing)
Mobile APP debugging	support

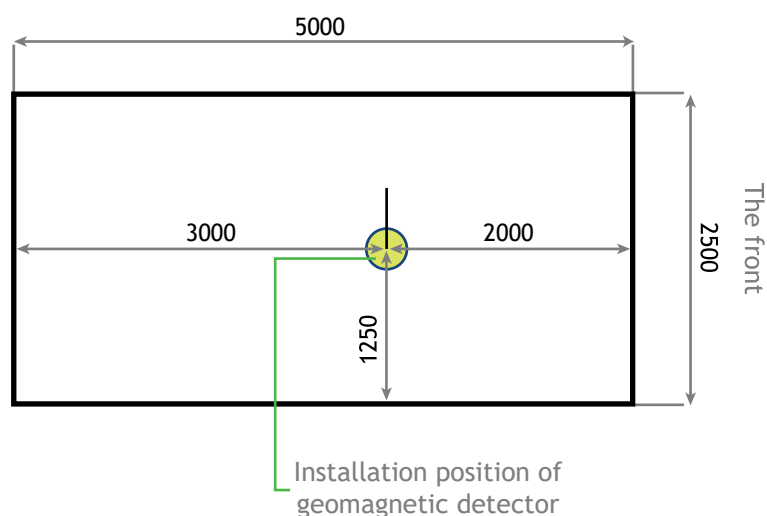
Table 1 Technical Parameters of Geomagnetic Parking Space Detectors

Thoroughfare	Uplink frequency/MHz								Gateway - Center frequency setting/MHz	
	Ch0	Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7	Radio frequency 0	Radio frequency 1
EU868	867.1	867.3	867.5	867.7	867.9	868.1	868.3	868.5	867.5	868.5
AU915	915.2	915.4	915.6	915.8	916	916.2	916.4	916.6	915.5	916.3

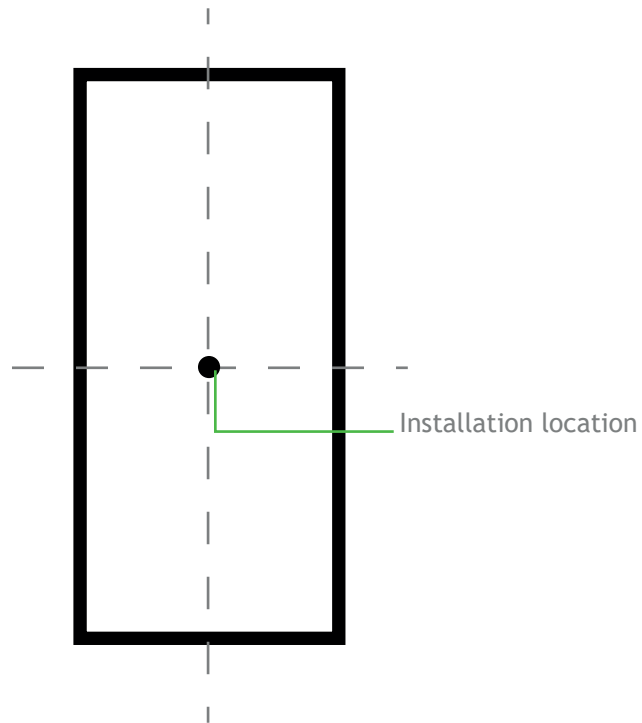
*Table 2 Equipment uplink channel frequency point table
The table is the default configuration of the device at the factory and can be configured and modified.*

5. Product Installation

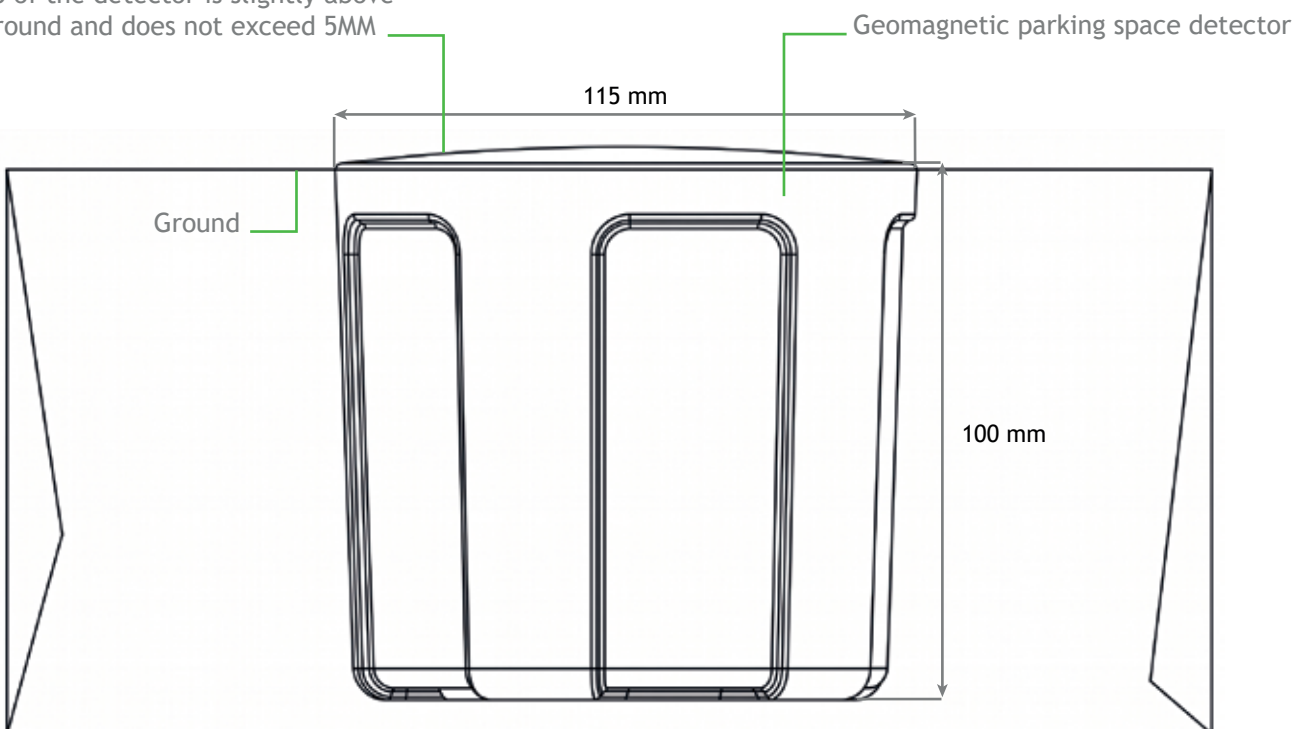
Installation position of the detector: For standard parking spaces of 2500 * 5000mm, the geomagnetic detector is installed near the front of the vehicle; As shown in the follow figure:



For other non-standard parking spaces, the geomagnetic detector is installed in the middle of the parking space, as shown in the following figure



The top of the detector is slightly above the ground and does not exceed 5mm



Installation diagram of geomagnetic parking spot detector

6. Usage and maintenance

1. Non system maintenance personnel are not allowed to operate system equipment at will to prevent misoperation and system failure.
2. After the system configuration file is completed, please make a backup to prevent it from being damaged and unable to recover, reducing maintenance workload.

7. On site installation example diagram

