Installation Guide

Wireless Magnetic Parking Detectors

ClairGeo-MPS

Version: 1.0

TraffiClair Technology Co., Ltd.

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1. Construction Safety Precautions

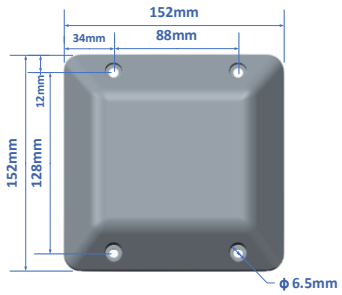
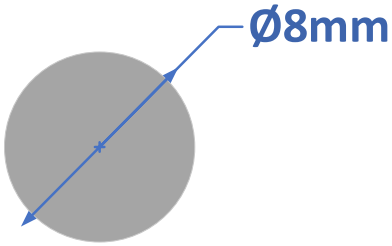
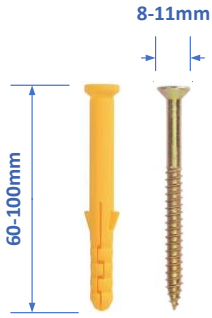
Standardized Construction Specifications

Based on wireless adhesive geomagnetic technology as an advanced method for detecting urban on-street parking and traffic information. The geomagnetic + 24G mm-wave dual-mode vehicle detector (hereinafter referred to as the geomagnetic detector) is a new type of vehicle detector that meets the requirements for complex environments. It enhances parking detection accuracy and has been widely used in the construction of intelligent on-street parking in many cities across China. It has also gained industry recognition. Its installation is simple, powered by industrial-grade lithium batteries, and utilizes the latest Narrowband Internet of Things (NB-IoT)/LoRa wireless communication technology, eliminating the need for wiring. Installation only requires drilling four holes in the parking space using a hand drill, without damaging the road.

Given the complex and hazardous nature of road construction environments, the following requirements are set for road construction:

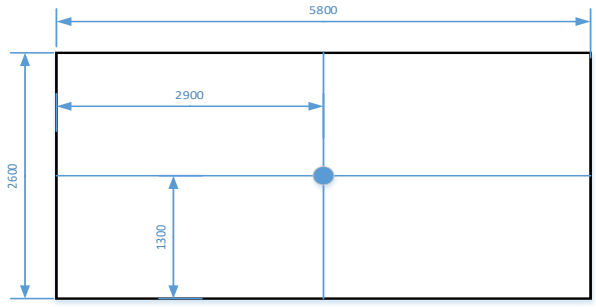
1. Before entering the road construction site, construction workers must wear reflective safety vests. Flashing lights must be set up during nighttime construction.
2. Before road construction begins, a safety zone must be delineated using bollards with clear reflective film.
3. All electrical equipment and wiring must not be overloaded. Connections must be secure to prevent overheating or short circuits.
4. Electrical safety: Electric drills must be equipped with leakage protectors, have effective grounding or zero connection, and rubber cables must not be damaged. Do not plug or unplug tool plugs with wet hands to prevent electric shock!
5. Vehicle usage: Vehicles used for construction (purchased, rented, borrowed) must first comply with traffic regulations. Drunk driving, speeding, and other violations are strictly prohibited. Construction vehicles are not allowed to leave the designated construction area without company approval.

2. Dimensional Specification

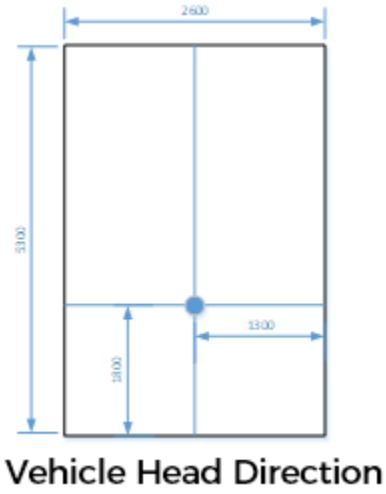
Geomagnetic dimensions: 152*152*28mm	Drill bit size for use: Optional 8mm (outer diameter)	Expansion Tube + Nail
		

3. Parking Space Detector Installation Position Instructions

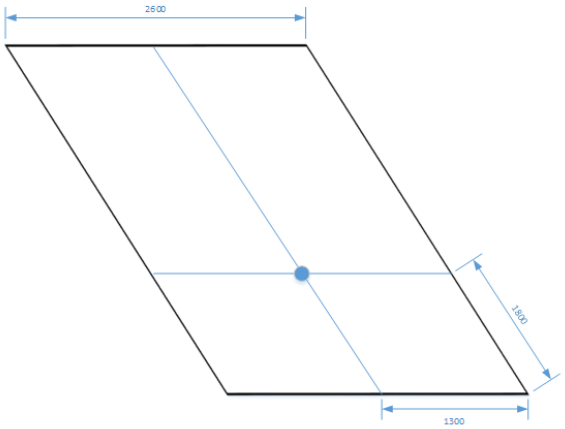
Linear Parking Space



Non-linear Parking Space



Angled Parking Space



Vehicle Head Direction

Note: For large parking spaces, the number of geomagnetic vehicle detectors can be buried according to project requirements.

4. Detector Installation Instructions



Note:

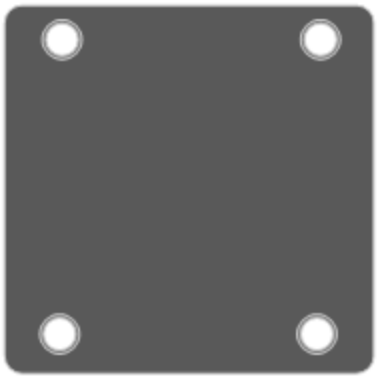
1) Record the number displayed on the device surface and note down the corresponding parking space number.
2) Avoid installing near ferromagnetic objects.
3) The front side (marked side) should face upwards.
4) The back of the detector should be flush with the ground and not placed on uneven surfaces.
5) Before installation, please contact our technical support: sales@trafficlair.com.

Step 1: Reaming



Drilling Installation Hole: Use an 8mm diameter drill bit to drill at the specified position to a depth of no less than 60mm.

Step 2: Road Surface Preparation



Prepare the Installation Site: Remove protruding stones, dust, and sand.

Step 3: Inserting Expansion Tubes



Insert Expansion Tubes: Insert the expansion tubes into the four holes. Ensure the top cap does not protrude above the road surface.

Step 4: Record Device ID Number

Record ID: Please record the detector ID number in the corresponding construction record table or a dedicated table. For example, Detector ID: 91360023.

Step 5: Install Detector

Installing the Detector: Place the detector in the designated position (you can also apply some adhesive underneath), with the front side facing up (the side with the logo). Tighten the self-

tapping screws using a screwdriver.

Additional Installation Instructions:
1) Besides using expansion screws for installation, you can also use neutral weather-resistant structural adhesive to adhere the detector.
2) For added stability, it is recommended to use both installation methods.

5. Construction Tools

Attachment: Tools Required for Detector Installation

	Name	Attributes	Notes
Equipment Type	Detectors	Essential	Daily Installation Requirements
Tool Category	Car Mover (Mechanical Type)	Essential	For car moving, 4 are required.
	Notebook, Pen	Essential	
	Flashlight	Nighttime Essentials	
	Traffic Baton	Nighttime Essentials	
	Reflective Cone	Nighttime Essentials	Safety Requirements
	Reflective Vest	Nighttime Essentials	Safety Requirements
	Large "One-Way" Traffic Cone	Essential	
	Electric Drill	Essential	
	Drill Bit	Essential	∮8mm
	Generator	Essential	Powering the Water Drill
	Power Cord	Essential	Powering the Water Drill
	Measuring Tape	Essential	Five-Meter Range
	Gloves	Optional	
	Brush	Essential	
Auxiliary Materials	Self-tapping Screws + Expansion Tube		Several
	Adhesive		Apply Some Adhesive on the Uneven Road Surface
Manual Labor Category	Clearance Vehicle		Scrapped Vehicles, Immobile Vehicles