



(Actual Size)



VEHICLE DETECTION

SENSORS

IPS Vehicle Detection Sensors provide a reliable detection system for the presence and absence of a vehicle in a parking space. The IPS sensor uniquely directs all sensing information via the IPS parking meter cellular communications backbone, saving customers the hassle of installing additional network equipment and dramatically reduces the cost of ownership.

The IPS sensor uses multiple sensing technologies to detect large metal objects. Its unique design provides the most accurate data on the sensor market and allows for quick installation and servicing.

FEATURES

- Sensor is wirelessly paired with an IPS parking meter to detect the presence or absence of a vehicle
- Sensors are 3" in diameter and 7/8" in height and weigh .14 kg (0.3lbs)
- Sensor is fully encapsulating and contains the power source and antenna for a completely wireless solution
- Power is maintained by an integrated lithium battery pack for maximum battery life
- IPS utilizes an air/water tight sensor housing, which allows sensor to be easily removed or serviced in the field

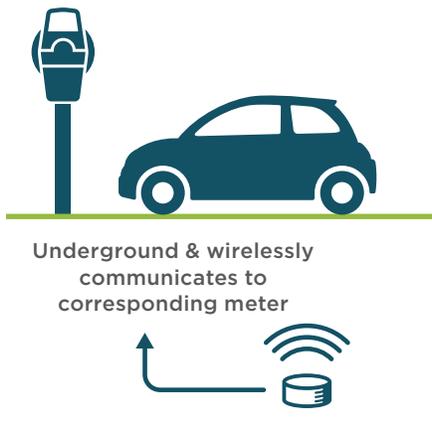
A vertical photograph on the left side of the page shows a close-up of a parking meter. A circular sensor is mounted on the meter's face. The sensor's internal components, including a green printed circuit board (PCB) with various electronic components and a yellow antenna, are visible through a clear lens. The background is a blurred outdoor scene with green foliage.

“Thanks to visionaries like Donald Shoup, cities are discovering the power of demand based pricing and realizing the true value of their on-street parking by utilizing smart parking meters and sensors to collect valuable data.”

— Dave King,
CEO IPS Group



Sensor alerts meter when vehicle arrives/departs



Underground & wirelessly communicates to corresponding meter



SENSING METHODOLOGY

IPS Vehicle Detection Sensors use multiple sensing elements to produce maximum sensor sensitivity. A ferrous object, such as a vehicle's engine block, alters the local magnetic field surrounding the sensor. As a car pulls into a parking space, the sensor detects the change in the magnetic field and relays the information to the IPS parking meter. The sensor can be fine tuned to register a movement of a vehicle in a specific space; increasing accuracy and making data received more valuable.

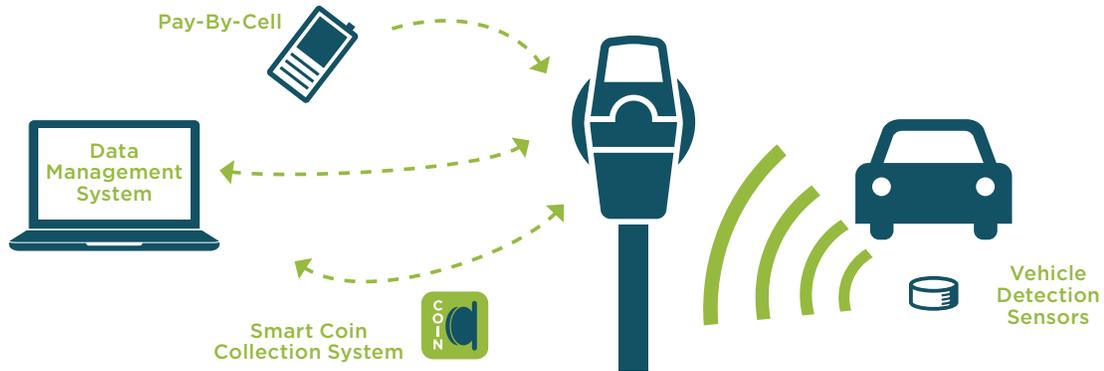
INSTALLATION

Sensor installation is easy and can be done in coordination between City and IPS staff. For best performance, sensors are installed below-grade, typically 2-3 inches below the surface. For the most accurate results, sensors should be installed under the area where the engine of the car is expected to be.

BENEFITS

- Sensor communicates directly to IPS meter rather than a mesh communication network, providing the most reliable communication transmission available at a significantly lower cost
- Real-time occupancy data is available via web-based data feed, supporting maps and smartphone applications
- Supports anti-meter feeding policies
- Option to reset meter when car pulls away (Scan QR code for a demonstration)
- Provides cost effective option to implement demand based pricing strategies
- Ability to add courtesy time on the meter, which gives motorists free time when they first pull into a space

IPS PRODUCT FAMILY



The IPS solution utilizes wireless technology to allow meters and sensors to talk to one another and then transfer data to a centralized data management system. IPS single-space parking meters work as a team with vehicle detection sensors and our web-based Data Management System (DMS) to help customers effectively evaluate parking trends and adjust programs accordingly. Cities are able to quickly upgrade existing meters, easily track revenue, send enforcement directly to vehicles in violation, and improve the efficiency of overall parking operations; all while holding customer satisfaction at a premium.

Let us prove it to you with a risk-free 90 day field trial.



We are a design, engineering and manufacturing company focused on ultra-low power wireless telecommunications and parking technologies. With installations across the US and Canada, we've quickly grown to be a leading supplier of single-space credit card enabled parking meters, vehicle detection sensors, and parking management software. We are continually developing new and innovative technologies to meet customer's needs and ensure our products are supported by an outstanding customer service team.

For more information about IPS Group's dynamic parking solution, please visit our website www.ipsgroupinc.com

Call for an on-site demo: **858.404.0607** | Online: ipsgroupinc.com

 Parking Meters  Data Management System  Vehicle Detection Sensors  Smart Technology Suite