TECHNICAL SPECIFICATIONS

SmartSensor | 3rd Generation

Smart Parking’s unassuming yet highly innovative in-ground vehicle detection sensors monitor individual parking spaces and relay occupancy status to our SmartSpot gateways.

Overview

We ensure that each Smart Parking sensor meets our rigorous functional requirements, meaning they can operate under a wide range of operational environments with high accuracy, and we can tailor sensor behaviour to individual parking space requirements.

Extensive research and experience has lead Smart Parking to develop major advances in two-way RF communications mechanisms, which optimise the achievement of real-time event communications while maintaining ultra-long lifetime battery powered operations within highly adverse environments.

After many market trials and production deployments around the world, we have proven the Smart Parking vehicle parking detection sensors to be the most accurate in the industry today.

Features

- High availability, fault tolerant, star mesh typology, software defined low-power bi-directional digital radio communications delivers simple deployment and reliable operations.
- Each sensor is mapped to geo-location co-ordinates as well a globally unique digital identity for all transactions.
- Simple and automated activation via the Android-based application.
- Centralised Over-The-Air (OTA) provisioning, configuration management, firmware updates.
- Road surface grade polycarbonate alloy construction allows many years of reliable service within extreme operational environments.
- Independent co-existence with existing IT infrastructure.
- Ultra low profile allows for:
  - trip/slip hazard elimination
  - minimal visual and unobtrusive presence
  - up to 10 years battery power means that the sensor will typically outlast the roadway tarmac
  - Rapid installation and replacement

Benefits

- Reliable, accurate, live, full data on each and every parking space event for powerful services, deep analysis, and planning opportunities.
- Rich information about location and sensed status.
- Supports and enables new classes of advanced guidance solutions for drivers to find available parking spaces, transforming traffic flows, and user convenience.
- Instant information and client rules based notifications for infringement enforcement.
- Provides a reliable foundation for simple, ticketless, cost effective, barrier free parking payment solutions.
- Delivers accurate information sensing within the Smart Parking open information platform for leveraging within existing and new application systems.
TECHNICAL SPECIFICATIONS

OHI Sensors

Installing Smart Parking overhead indicator sensors ensures a simple, cost-efficient, and highly effective off-street parking management system.

Overview

This system transforms the multi-storey indoor parking experience for drivers by providing high-visibility, colour coded LED overhead guidance indicators that are dynamically controlled by your SmartPark business rules, allowing users to see the availability of entire rows of parking bays at a glance.

Each and every bay relays live status to SmartCloud, which in turn is able to channel this information into guidance and capacity signs as well as reporting and analytics of the entire car park.

Features and benefits

- High availability, fault tolerant, star mesh typology, software defined low-power bi-directional digital radio communications delivers simple deployment and reliable operations.
- Simple and automated activation via the Android-based application.
- Centralised over-the-air provisioning, configuration management, firmware updates.
- Tough, polycarbonate casing means a long install life.
- OHI sensors use low voltage DC based power supplies that are connected to the standard building mains electrical circuits, negating the need for internal batteries within the sensors.
- Approx 2+ year battery life in IR sender with live reported status. Battery replacement is covered during the agreed support contract.
- Improved car park management as vehicles can see real-time parking space availability in the form of the coloured LED lights.
- Reliable, real-time data on each and every parking space event or powerful services, deep analysis, and future planning opportunities.
- Supports and enables live digital display directional signage, helping guide parking spaces, transforming traffic flows, and user convenience.
- The solution of an in-ground IR sender and OHI sensor per bay means the system can be rapidly installed and is simple and easy to maintain.
- Standard light settings are red and green, but have the flexibility to be set to other colours such as blue, purple, or orange to guide drivers to reserved spaces, for example, disabled or other special purpose parking bays.
- OHI sensors provide sensing and guidance in one unit, allowing bay availability information to be transmitted to the SmartCloud dashboard as well as instantly changing the light colour when a parking event occurs.
**TECHNICAL SPECIFICATIONS**

**SmartSensor | Surface Mount**

Smart Parking’s surface-mounted vehicle detection sensors provide a solution when drilling into the ground isn’t an option, and they function to monitor individual parking spaces and relay occupancy status to our SmartSpot gateways.

**Overview**

We ensure that each Smart Parking sensor meets our rigorous functional requirements, meaning they can operate under a wide range of operational environments with high accuracy, and we can tailor sensor behaviour to individual parking space requirements.

Extensive research and experience has lead Smart Parking to develop major advances in two-way RF communications mechanisms, which optimise the achievement of real-time event communications while maintaining ultra-long lifetime battery powered operations within highly adverse environments.

After many market trials and production deployments around the world, we have proven the Smart Parking vehicle parking detection sensors to be the most accurate in the industry today.

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<td>• By providing our sensors as a surface mount option we ensure:</td>
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<td>- Any site can use our world-class technology, even those with restrictions around drilling</td>
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<td>- Up to 2 years battery power. Support contract covers ongoing battery maintenance requirements</td>
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