

PERFECT SOLUTIONS FOR TRAFFIC SYSTEMS



Catalog 2016



Intelligent Parking Guidance Systems

indoor + outdoor

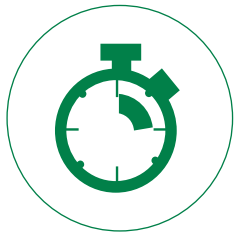
Know where a space is free

Solutions for intelligent parking guidance systems

MSR-Traffic offers innovative sensor technology for counting and single space detection of vehicles in indoor and outdoor areas. Motorists are quickly guided to the next free parking space via a dynamic traffic control system. The connection to apps or existing control systems is possible as well. This doesn't only increase the quality of life and the attractiveness of cities, but is also of great advantage from an economic point of view.



Reduces traffic and environmental pollution



Saves time and improves quality of life



Increases the utilization of free parking spaces



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MSR-Traffic: Your benefits

Minimization of parking search traffic

Anyone who is on the road in metropolitan areas by car knows the hassle of finding a free parking space. The driving around and waiting costs time and annoys, also consumes additional fuel polluting in turn the environment. If motorists are able to find free parking spaces faster, we all win.

Intelligent system for easier finding a parking space

Short distances and good accessibility of parking spaces are important to save energy and time. Therefore this is worth money for customers and providers - in central shopping areas of the city as well as in traffic hubs, trading centres and along major transportation routes.

The technology of MSR-Traffic is based on this knowledge, but goes an essential step further with the prevalent deficiencies in parking situations of everyday life in mind - long search, extra trips, defective machines: The MSR-Traffic technology makes the parking area digitally determinable and calculable. It puts the management more immediately and effectively than ever in the operators' and users' hands.

That's what the modern technology of MSR-Traffic offers:



Attractive prices



Individual configuration



Turnkey systems



Fast installation



Parking guidance system outdoor

Guidance, counting and single space detection

With the innovative magnetic sensor technology by MSR Traffic motorists are guided to the next free parking space in outdoor areas, too.

The wireless sensors are independent of weather conditions, deliver very high detection accuracy and can be grouted flush with the road surface. They are therefore protected against vandalism and snow ploughs.

If a parking space is occupied, the sensor detects the change in the magnetic field and sends the signal via radio to the server. The evaluation will then take place in combination with a parking guidance system, parking ticket machines, apps or the navigation system.

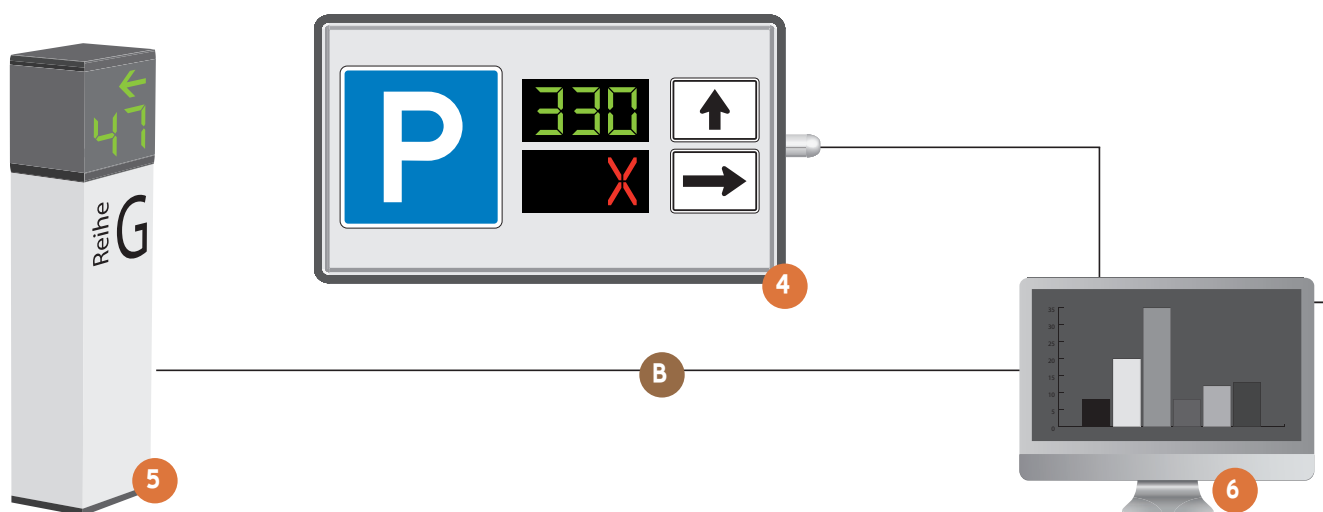
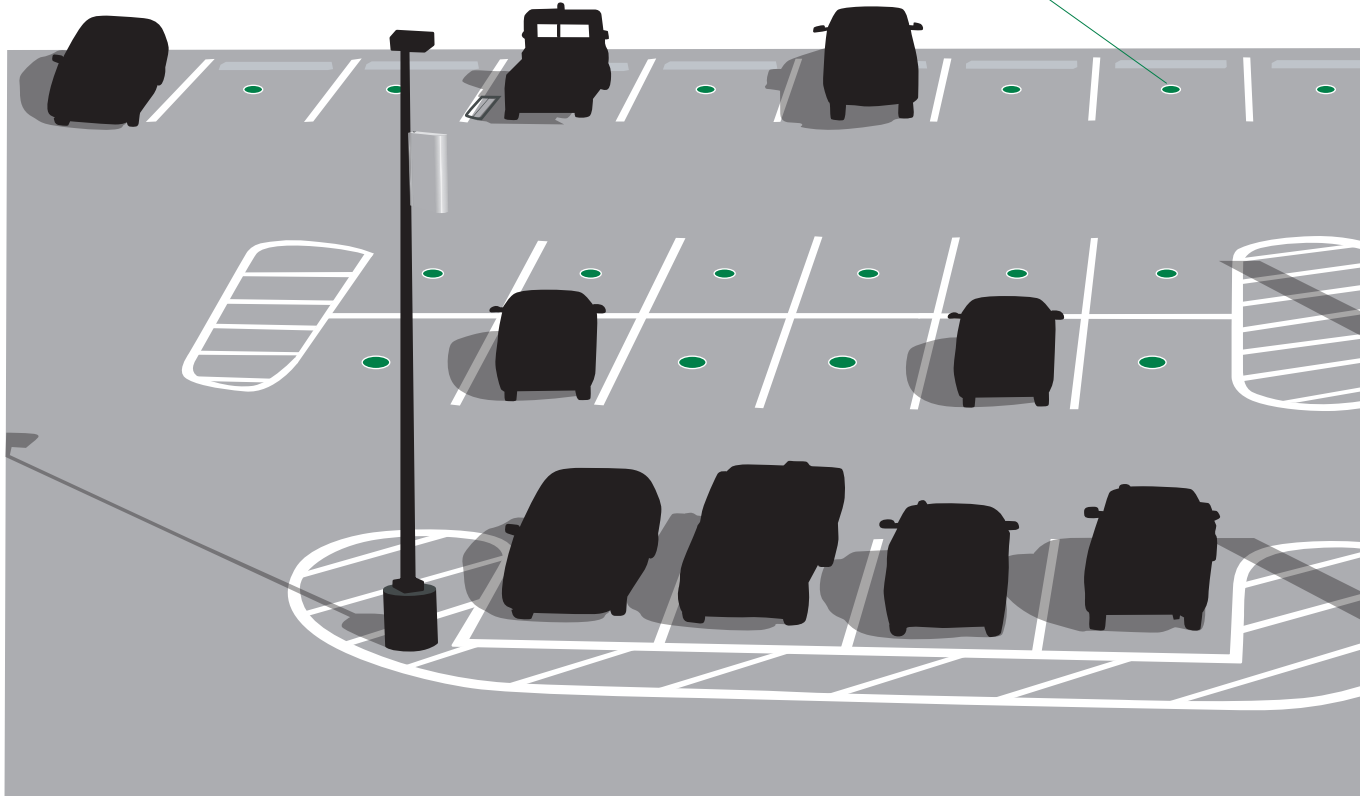
Your benefits:

- Accurate detection and monitoring of all spaces
- Reduction of the parking search traffic
- Minimum installation effort
- Optimization of parking utilization
- Short payback period of the system
- Relief of the parking attendants thanks to fast and accurate billing of parking fees
- Reduction of CO2 emissions
- Suitable for outdoor use
- Wireless sensor installation
- High detection accuracy



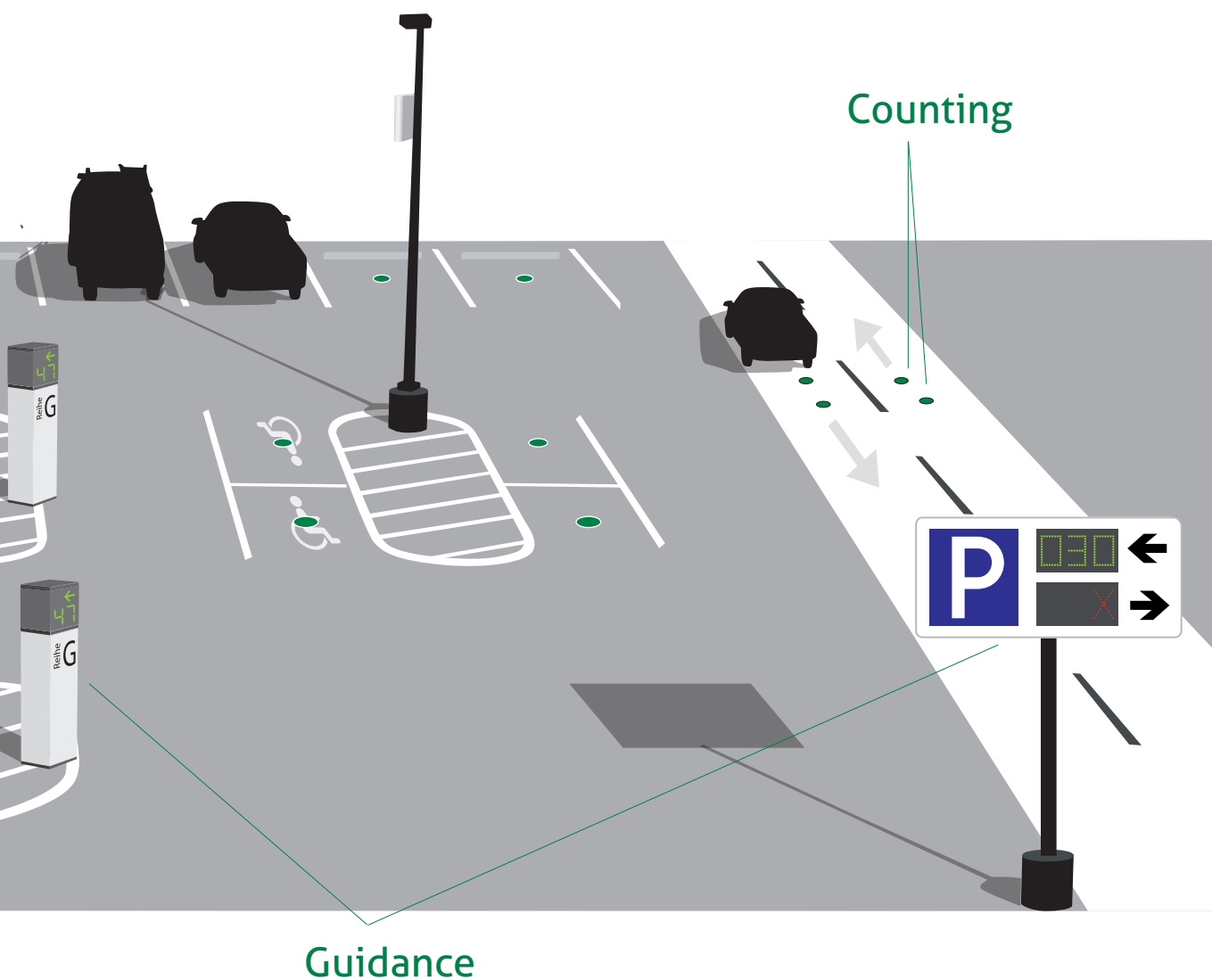
Guidance outdoor

Single space detection

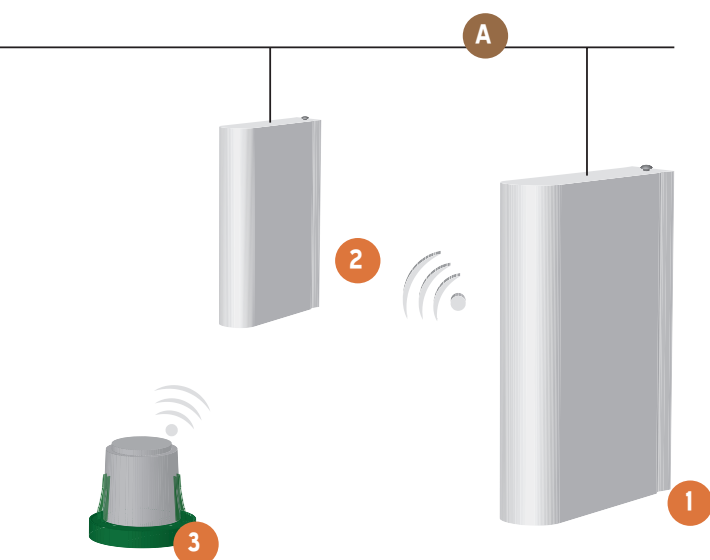


- 1 Repeater with radio communication
- 2 Masterrepeater with WLAN/GPRS/Ethernet-Communication
- 3 Magnetic field sensors (wireless)
- 4 LED display as direction sign

- 5 Totem
- 6 ParkGard® Control Center
- A 230V AC | Kabel: 3 x 1.5mm²
- B RS485 | Kabel: 2 x 2 x 0.8mm² / GRPS / wireless
- 230V AC | Kabel: 3 x 1.5 mm²



SENSOR FEATURES



Mounting flush with the road surface



Wireless communication



Detection accuracy



Integrated battery with a life expectancy of up to eight years



Compatible for app connection

Parking guidance system

Indoor

Guidance, counting and single space detection

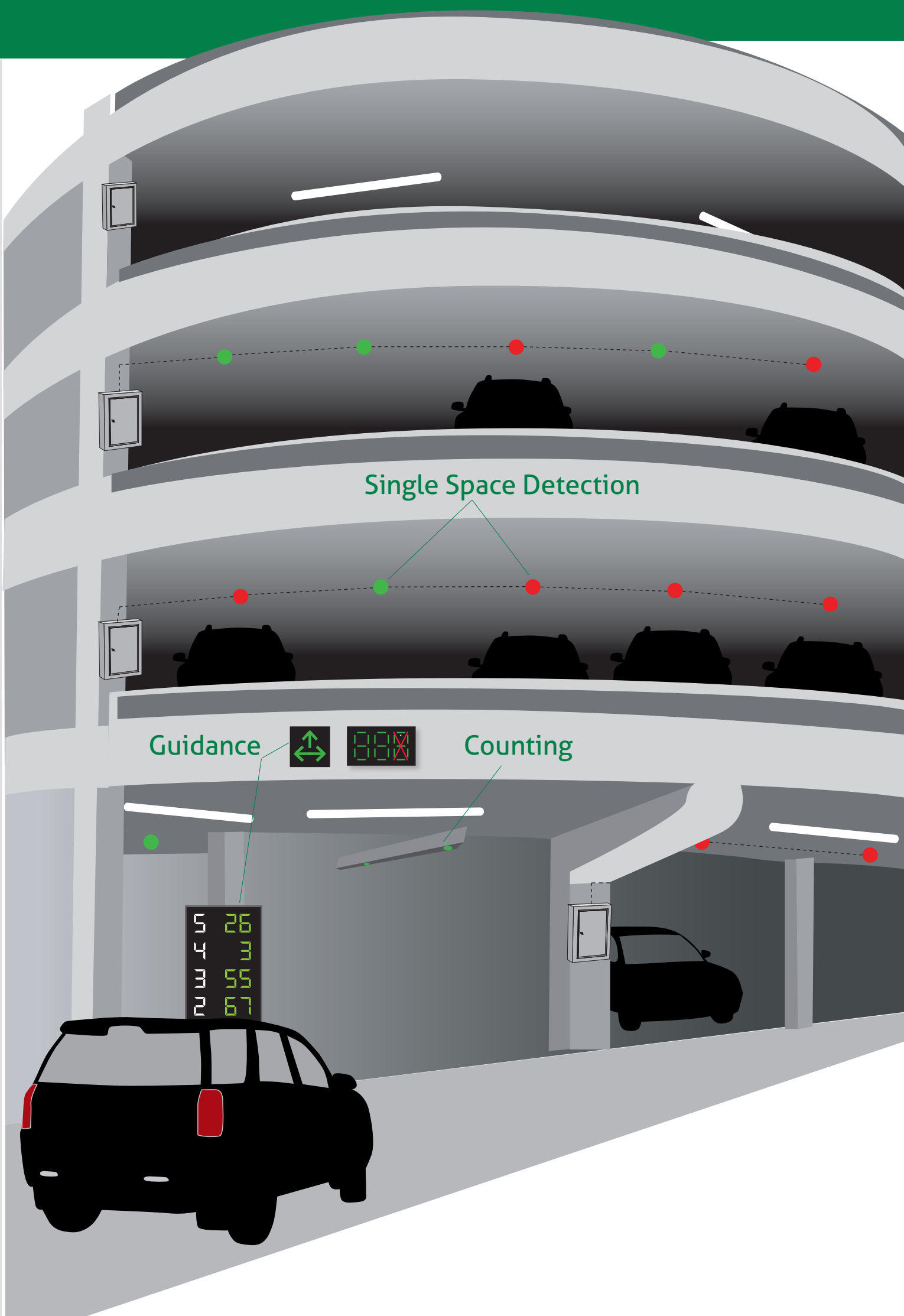
The availability of each individual parking space is detected with ultrasonic sensors and managed via controllers / hosts. The resulting occupancy status will be indicated on LED displays at the entrance and on each level. Thus, customers can be guided directly to the nearest available parking space. This not only makes the search easier and reduces the traffic in the garage, but it also saves the customer valuable time. In addition, the operator can also reduce ventilation costs when the utilization of the parking spaces is optimized.

The systems for the detection and counting of incoming and outgoing cars in parking garages can be implemented for a certain area, but also for individual levels.

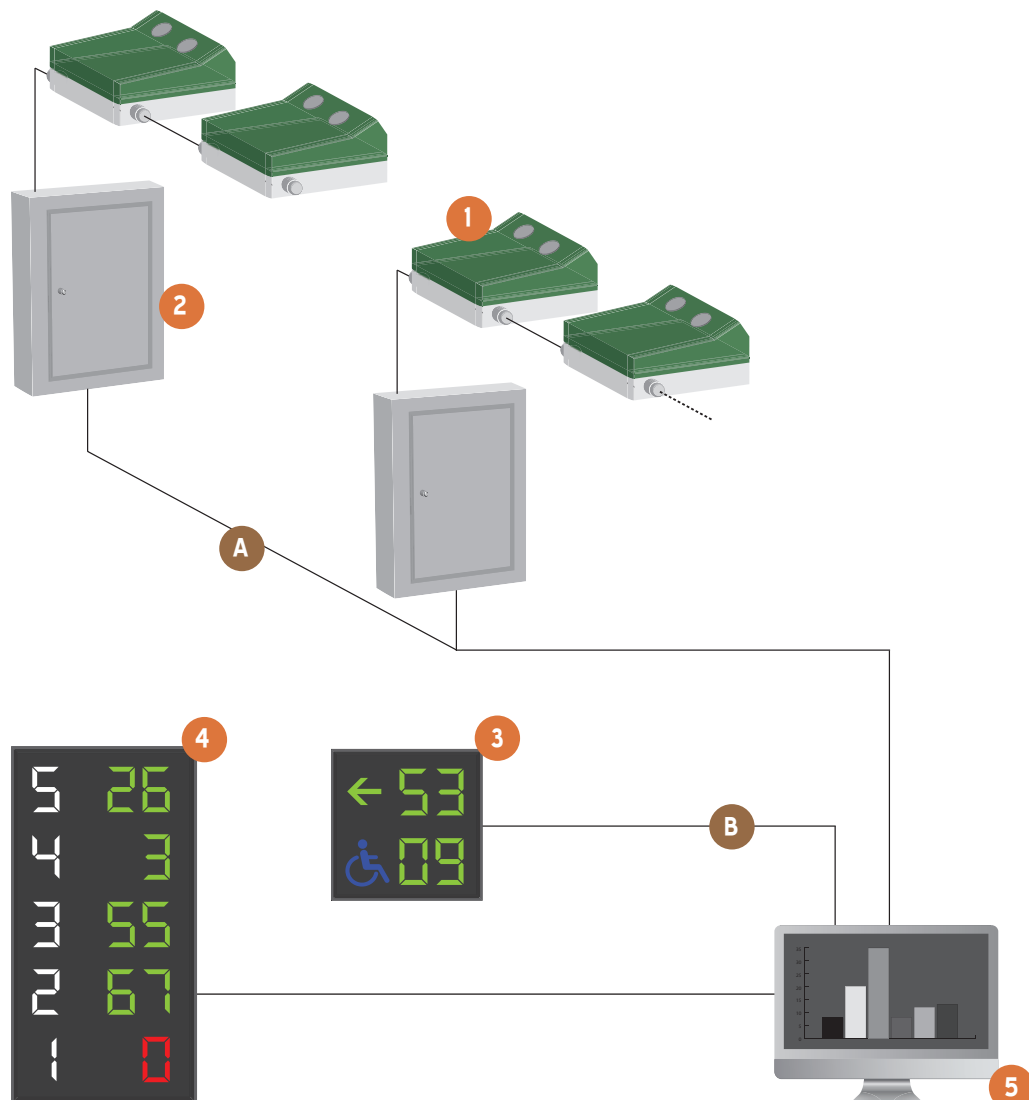
Your benefits:

- long service life
- no additional maintenance cost
- precise detection and monitoring of all pitches
- significant reduction of the Parksuchverkehrs
- minimal installation effort
- Optimization of parking usage
- short payback period of the system
- Reduction of CO2 emissions
- Reducing ventilation costs
- suitable for indoor use
- high accuracy
- Sensor and status indicator in a housing





Guidance indoor



- 1 Ultrasonic sensor
- 2 Zone controller
- 3 LED display per level
- 4 Main display at the entrance of the parking facility

- 5 ParkGard® Control Center
- A RS485 | Cabel: 2 x 2 x 0.8mm² | 24 V
- B RS485 | Cabel: 2 x 2 x 0.8 mm²
230V AC | Cabel: 3 x 1.5 mm²

SENSOR FEATURES



Mounting suspended from the ceiling



ModBus communication



Detection accuracy



Integrated status LED



Compatible for app connection

Preserved Parking Areas

Monitoring of critical areas

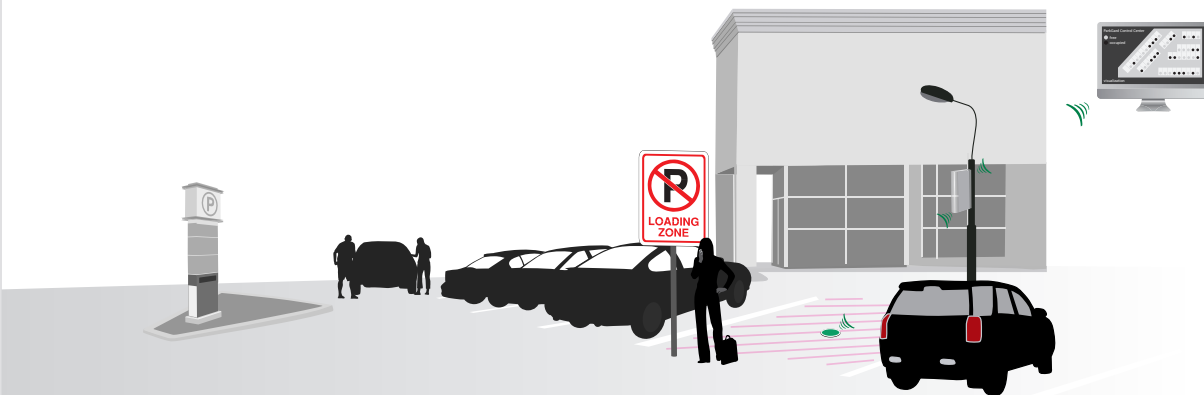
The innovative magnetic sensor technology by MSR-Traffic also allows you to monitor places where parking is prohibited. Likewise, parking spaces with special attention can be monitored, such as disabled parking spaces or unused charging stations.

Preserved parking areas:

- Fire brigade access
- Disabled parking spaces
- Charging stations
- public places (town halls, embassies, etc.)

Car drivers don't always observe prohibition signs. This disregard of safety aspects can quickly lead to dangerous situations, for example when an emergency vehicle has to come out at the precise moment. Until the parking offender has been removed, valuable time is wasted and lives are endangered. With the sensor technology by MSR-Traffic that won't happen anymore.

If a space of a no-parking zone is occupied, the sensor detects the change in the magnetic field and transmits the signal immediately to the central control. The responsible authority can react at once and remove the parking offender.



Gas Alarm Systems

Safety systems for the underground garage

The parking management systems in combination with the gas and ventilation technologies of the partner company MSR-Electronic offer smart technology solutions reliably protecting the environment and the life and health of car drivers.

Especially in the range of indoor parking facilities, not only the waiting times when looking for a parking space should be reduced, but also the health and safety of motorists should be in the foreground. The emissions of car exhaust gases (CO, NOx and EX / LPG) are therefore detected by the sensors PolyGard® from MSR-Electronic in a reliable manner and with the highest precision and ventilation systems are activated and controlled accordingly.

All products are compliant with the new European Standards EN 50545 and EN 50271.

Your benefits:

- Long life expectancy
- Accurate detection and monitoring of all spaces
- Optimization of parking utilization
- Reduction of ventilation costs
- Continuous monitoring of all gases in the garage
- New maintenance concept with exchangeable sensors
- Reduction of installation and hardware costs
- Easy calibration

Further information:

For more information on gas alarm systems, please refer to the brochures of MSR-Electronic and to www.msr-electronic.de.



ParkGard® Control Center

SCADA software perfectly adapted to the system

With the ParkGard® Control Center you can keep an eye on any parking space at any time. Whether for occupancy statistics or profitability analysis - the ParkGard® Control Center allows you to access in real time.

Because of the faster processing of individual requirements and the retrieval of all required information in real-time, the easy-to-use ParkGard® Control Center becomes an effective and efficient instrument.

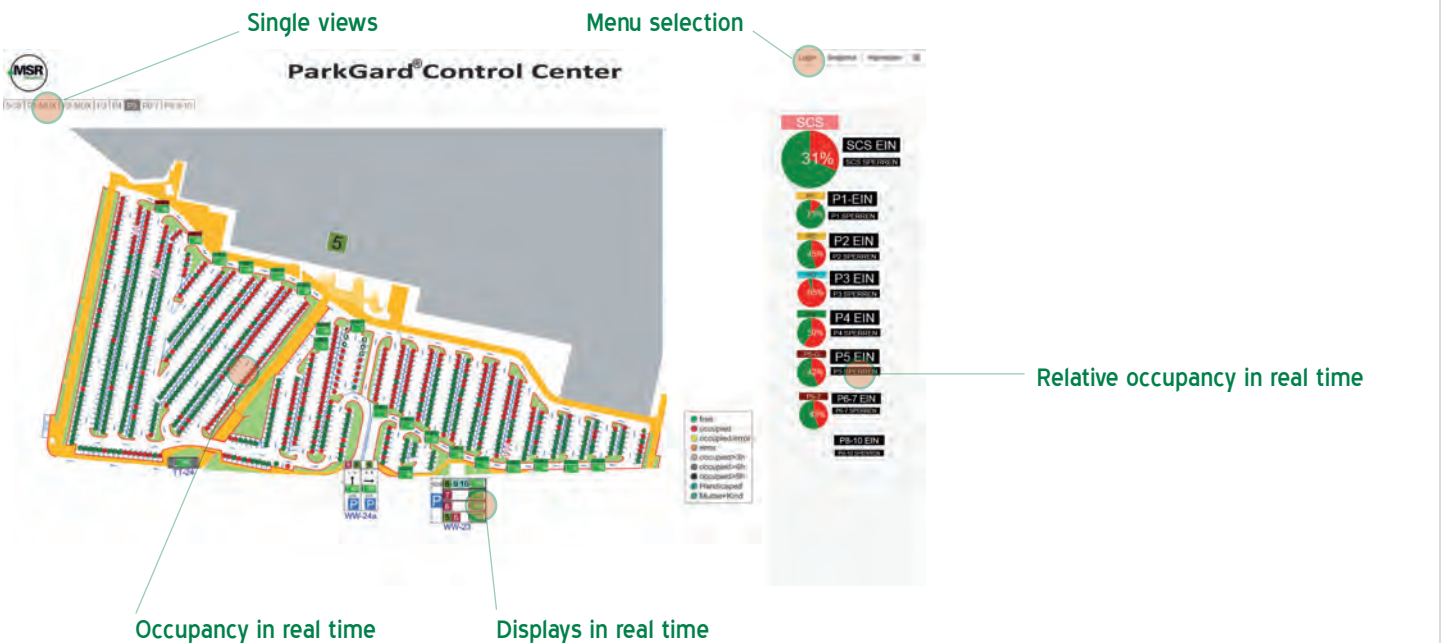
In addition to the statistical and evaluation functions, it is possible to control sensors and controllers via the ParkGard® Control Center, for example, if parking spaces should be reserved or parking offenders recognized. Flexible integration of further applications such as a gas detection system, complete the comprehensive functionality of the ParkGard® Control Center.

Your benefits:

- Monitoring and visualization of all parking spaces and displays in real time
- Control of all sensors (parking reservation) and displays (display value, brightness value)
- Evaluation of all data (statistics, trend analysis, etc.)
- Timer for automatic and regular commands
- Ability to export all the data in a CSV file
- Possibility to integrate a gas detection system (indoor)
- Detection of illegal and permanent parkers
- Automatic message about defective units
- Erkennung von Falschparkern und Dauerparkern
- Automatische Hinweismeldung über defekte Geräte

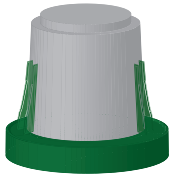


SCADA Software - important features

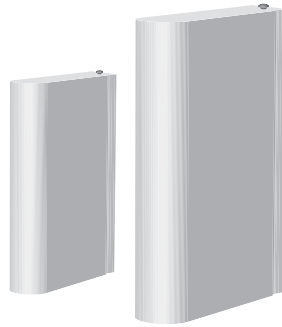


All products at a glance

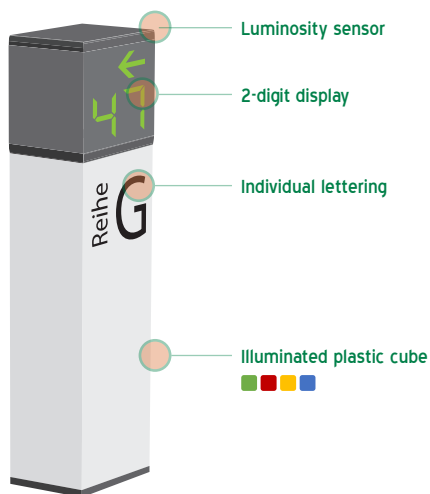
Magnetic field sensor



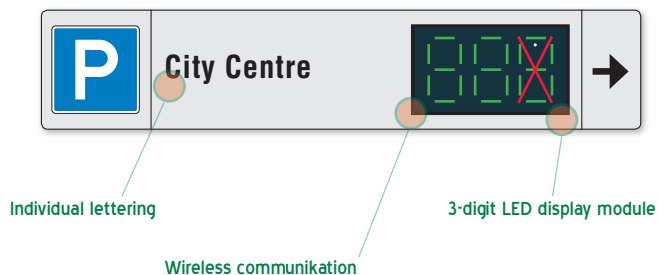
Repeater & Gateway



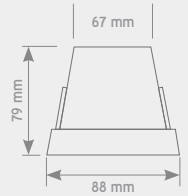
Totem



Direction signs

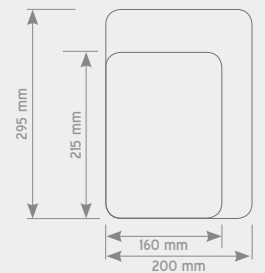


U-Spot



U-Box

U-Flag



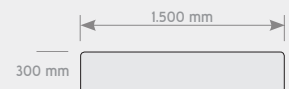
Maxi



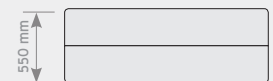
Mini



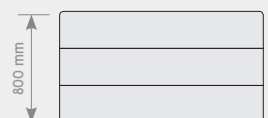
alpha



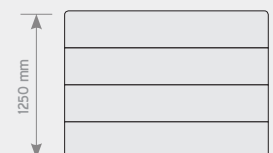
beta



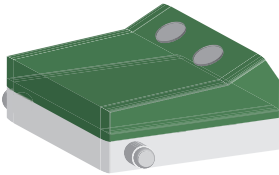
gamma



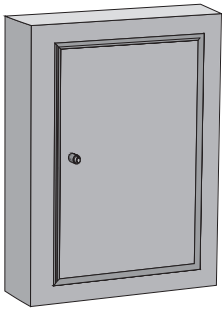
delta



Ultrasonic sensor



Level Controller



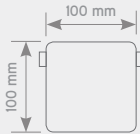
Displays



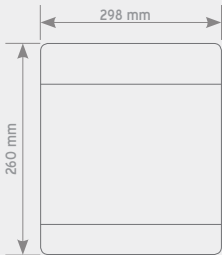
Direction sign



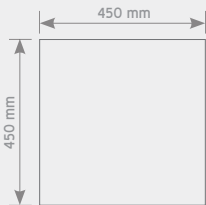
Sensor



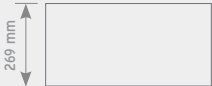
Controller



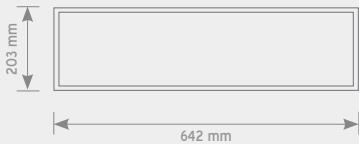
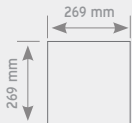
centi



micro



pico



Projects and References

(Excerpt)

Industry & commerce:

- Audi
- Fraunhofer Institut
- Mercedes AMG
- Glatt GmbH
- Northbrigde
- VDI Düsseldorf

Cities & public institutions:

- City Wolfratshausen
- City Alzey
- City Ingolstadt
- City Rab (CRO)
- City Albstadt
- Clinic Nürnberg

Shopping & Malls:

- Shopping City Süd, Wien
- Loop 5, Weiterstadt
- City Gallery, Passau
- Edeka, Hamburg

Partners' projects:

- By & Havn, Kopenhagen
- Therme, Ludwigsfelde
- Technomobil, Kroatien
- Axis, Österreich
- Neuhauser VT, Österreich
- Kvaesthus (G4S), Kopenhagen
- Max Bögl







www.msr-group.eu

The MSR group combines 3 innovative companies from the electronics sector. Gas alarm systems, parking guidance systems and sensors for building automation - the products are reflected in many commercial and industrial applications, such as parking garages, cold rooms, bio-gas plants or offices.

■ MSR-Electronic GmbH



Fixed gas detection systems for buildings and industry

MSR-Electronic offers reliable fixed gas detection systems for gas monitoring and leak detection in buildings, industrial plants and in the shipping industry: sensors, controllers and warning devices.

www.msr-electronic.de

■ MSR-Traffic GmbH



Intelligent parking guidance systems with single space detection for indoor and outdoor use

Outdoor: wireless magnetic field sensors for outdoor use and Smart Cities
Indoor: ultrasonic sensors for indoor use (underground garages and car parks)
Displays: dynamic signposts for every parking system indoor and outdoor

www.msr-traffic.de

■ MSR-ME International Ltd.



Building automation

MSR-ME is a leading supplier of gas alarm systems, damper actuators, thermostats, gauges, absolute and differential transmitters and switches, valves and actuators, temperature and pressure sensors and other electrical equipment.

www.msr-me.eu

PERFECT SOLUTIONS FOR **TRAFFIC SYSTEMS**



MSR-Traffic GmbH
Würdingerstr. 27 + 27A
94060 Pocking, Germany

Fon: +49 8531-9004-0
Fax: +49 8531-9004-44
Mail: info@msr-traffic.de

www.msr-traffic.de

BRANDS & PROJECTS

