

Traffic & Parking Sensing Solutions



BANNER[®]

more sensors, more solutions

Traffic Solutions



Toll booth applications become more and more automated, to eliminate human error and to increase the throughput time for vehicles (like free flow detection). It is important to get reliable information when a vehicle is entering the toll station to define the correct category which is directly linked to the toll charge. The main challenge is that a wide variety of vehicles can come through the station: motorcycles, cars with or without trailers, trucks...

Measuring Light Curtains

MINI-ARRAY and EZ-ARRAY measuring light curtains, composed of an array with multiple synchronised emitter/receiver pairs at defined distances, can sense the profile of the vehicle. It is also used to detect vehicle separation and sense even the smallest parts like the tow bars.

QS30 High Powered Sensor

The QS30 sensor is built to withstand the most extreme outdoor conditions, with wide temperature fluctuations and high humidity conditions (sealed up to IP69K). Its optical power has been specially tuned to look through mist or fog, and to be sunlight immune, but not miss any cars or trucks.

Beacon Tower Light

The beacon tower lights are based on ultra-bright LEDs that offer extremely long lifetimes. They are made for outdoor applications with excellent visibility even in direct sunlight. A special designed integrated mirror makes the light visible from the side as well.

Fast Profiling Robust Housing

Sunlight Immune IP69K

High Brightness Long Lifetime

R-GAGE Radar Sensor

The R-GAGE QT50R is a FMCW Radar Sensor that can detect both moving and stationary objects, regardless of shape or colour. With its compact and robust, dirt-resilient IP67 housing and weather immunity algorithms, it is able to withstand harsh winds and other extreme environmental elements.

Snow, Fog, Rain, Wind & Humidity Easy Configuration

SP250 Traffic Light

Banner Traffic Lights are pre-assembled, easy to install indicators for signalling and traffic management control, available with one, two or three indicators. Their high intensity light output levels are ideal for outdoor applications, with excellent visibility even in direct sunlight conditions.

High Brightness Long Lifetime

M-GAGE Parking sensor

The M-GAGE Parking Occupancy Sensor uses magneto-resistive technology for sensing large ferromagnetic objects. The form factor of the wireless device is a small epoxied 70 mm disk that is only 25 mm thick. It can be buried in the ground or mounted on top of the road surface inside a specially designed low-profile dome. A wired version (flat pack) is also available.

Loop Replacement Cable Replacement via Wireless I/O



Parking occupancy information is important to optimise traffic flow and to avoid congestion when specific parking lanes are full. Simple counting of entry and exit movements is not reliable and cannot provide free space information to the driver. For outdoor parking, sensors can be buried or placed above ground, while for indoor parking ceiling mounted solutions with sensors 'looking down' are still preferred. The wireless communication will relay the information of each individual sensor back to the control room (even with several thousand nodes installed in one location).



Parking Solutions



Sensors

- Presence/Absence Detection
- Foreground & Background Suppression
- GO/NO GO Inspection
- Gating and Triggering
- Parts Counting
- Level and Distance Measurement
- Positioning
- Contrast and Colour Sensing
- Vehicle Detection (Radar, Ultrasonic & Magnetic Technology)



Vision

- Vision Sensors with Onboard User Interface
- Pattern Recognition
- Traceability (Barcode, Datamatrix and Text Reading)
- OCR/OCV
- Complex Part Inspection
- Part Orientation
- Assembly Verification
- Colour Inspections



Wireless I/O

- Slip Ring Replacement
- Tank Farm Monitoring
- Livestock Environmental Monitoring
- Water and Wastewater Treatment
- HVAC Remote Monitoring
- Traffic Monitoring & Control
- Remote Sensing in Process Automation
- Cable Replacement
- ATEX Approved Solutions



Lighting & Indicators

- Bin & Part Picking
- Error/Mistake Proofing
- Pick-to-Light & Put-to-Light
- Operator Guidance
- Call for Parts
- Incorrect Pick Signal
- Remote Start/Stop Indication
- Work Station Lighting
- Mobile Equipment Work Lights
- Production Machine and Cabinet Lighting



Machine Safety

- Safety Light Screens
- Ergonomic Two-Hand Control Devices
- Safety Modules
- Emergency Stop Devices
- Safety Interlocking
- Laser Scanners for Safety Applications
- Programmable Safety Controllers
- Enabling Devices

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