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MagSense® for Exact Counting of Vehicles in Car Parks and Underground Parking

The new MagSense® application 3DTC is perfectly suitable to count exactly vehicles on ramps and at cross-sections of car parks and underground parking facilities.



Ramp metering:

The MagSense® 3DTC sensor is fixed at the ceiling of the level below. This low-cost kind of installation does not require joints to be cut into the ramp. And it is no problem to use several sensors beneath wide ramps.

Functioning:

Measuring is performed through the ceiling of the car park. The flexible parameterization of the MagSense® 3DTC sensor allows the accurate detection of every vehicle movement on the above level; it ensures even the detection of vehicles with low-ferromagnetic features as well as of vehicles with high ground clearance like SUVs. Vehicle speed can be up to 220 km/h, a value which will not be reached inside a car park.





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Installation:

The sensor system can be installed either in empty conduits below the ramp or the cross-section or by sticking them directly to the ceiling. At the lowest level the sensors are laid in narrow, traversable cable conduits or below road stones. In all cases it is a low-cost kind of installation.



Interfaces for data transmission:

Data transmission from the individual cross-sections is effected preferably via GPRS (mobile communications network). Using GPRS reduces the cabling effort considerably. Other interfaces (CAN, RS485 or Ethernet) can equally be used and allow the flexible application of the sensors with already existing systems (available cables or interfaces).

Exemplary application case:

Airport Cologne - Bonn

In P3, the largest car park of the Airport Cologne-Bonn with its 6,504 parking spaces on 8 levels, the 3DTC sensors are operated successfully. Data is transmitted via GPRS. A dynamic display guides the users to the levels where they find vacant parking space.

