EBE ROAD TELEMATICS

MagSens

Reliable Vehicle Detection Using the Earth‘s Magnetic Field

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MagSens convinces:

- Extremely robust and reliable
- Completely weather-resistant
- Flexible installation in asphalt or a speed bump
- High sensitivity allows for lateral positioning
- Easy retrofitting via a narrow cut if no conduit is available
- Wired power supply and data connection
- No battery replacement
- Analysis of characteristic magnetic field profiles

Metallic objects affect the Earth’s magnetic field. The MagSens magnetic field sensor detects these deviations, enabling precise vehicle detection—without the need for cameras or optical systems. This offers a clear advantage in conditions of poor visibility, rain, snow, strong sunlight, or darkness. It is an extremely reliable technology used on open-air parking lots (P&R, P&D) as well as on streets airports.

MagSens is a wired magnetic field sensor—each sensor is connected via a cable to a “data concentrator.” This connection handles both the power supply and data transmission, allowing the sensor to measure with constant performance. In addition, the data is aggregated and transmitted via a central point. In areas with poor cellular coverage, the data concentrator can be connected directly to a LAN.

The sensor does not need to be positioned directly beneath the metallic object. Thanks to its high sensitivity, it can also be placed to the side. This significantly simplifies retrofitting and ensures flexibility. If no empty conduits are available, a narrow joint cut or integration into a speed bump is possible. Using multiple sensors (a sensor chain) enables interesting applications, such as analyzing characteristic magnetic field profiles.

MagSens makes sense!

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