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Application Note #47

Vehicular Detection for Toll Booths

Need:

Ascom-DPS, a Solution Developer for toll booths, indicated to Exemys the need to detect the presence of vehicles for the activation of vehicular blocking barriers at the toll booths.

Solution:

Exemys' IDX device is a vehicle inductive detector, especially designed for parking and toll applications.

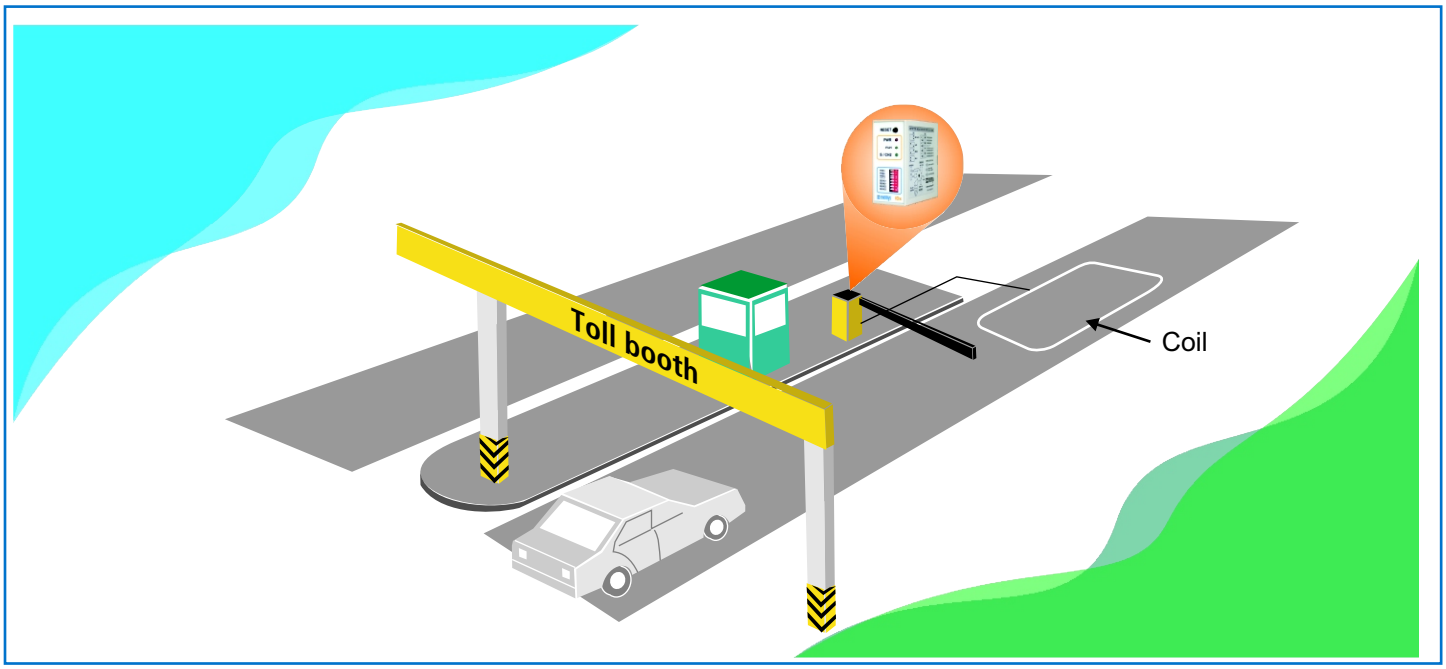
The principle of detection is very simple and also the most widely used for this type of application. It detects the vehicle's metallic mass by means of a simple coil, installed in the asphalt, which emits a magnetic field. The variation of this magnetic field is detected by the IDX device, which in the presence of the vehicle, it activates an output (relay or transistor)

In this particular case the coil was installed past the barrier, in order to detect the exit of the vehicle, thus informing the cabin computer to lower the barrier.

The IDX device is simple to install and use, and its efficiency and robustness has been proven in thousands of parking lots, toll booths and access controls.

Exemys product

EXEMYS - IDx



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