

## 3DTC – Traffic Counter

Traffic solutions for cities of tomorrow

### Features

- Fast, accurate and reliable vehicle detection regardless of traffic, weather and surface conditions
- Installation in parking garages without closures or delays for customers
- Easy integration with existing parking system
- Low power consumption
- Easy to install and maintain due to compact size



### Product description

Using a newly patented detection loop consisting of magnetic field sensors, 3DTC Traffic Counter opens new possibilities in counting vehicles traveling at speeds of up to 220 km/h, using MagSense products. 3DTC system consist of the WiGo controller and a sensor bus. Remote sensor software (firmware) upgrade is supported. Each sensor is equipped with a smart failure detection and sensor diagnostic utility. MagSense is a system that offers high returns on investment (ROI), fast time-to-market, and low total costs of ownership (TCO).

### Benefits

Lot of benefits which 3DTC provides is real-time parking information at any time, installation in parking garages without closures or delays for customers. With integration into existing systems like ramps or gates, lowers the maintenance costs. Another benefits are customer guidance to the nearest unoccupied parking spot using a smartphone app. Also, it provides access control for parking facilities and traffic monitoring.

### Planning of installation

One of most important steps for best performance of system and problem-free installation is planning. Wigo Traffic Counter can detect vehicles up to 8 lanes with speed to 80 km/h or 2 lanes with car speed up to 320 km/h. There are two

options of the counter (single line and dual line). Single line counter can detect the passage of vehicles without possibility for detection of the direction and speed of vehicle. Dual line counter can detect the passage of vehicles with possibility to detect the direction and speed of the vehicle.

### Installation

The installation of the counter can be carried out in several ways. The MagSense sensor is resistant to weather conditions and it is usually installed in the pre-cut asphalt. The sensor with its cable goes under the road surface, so it has better temperature and environmental stability what leads to lower drift of measuring values. When installed this way, sensor and its cable are protected from vandalism and all kinds of accidental destruction from road maintenance vehicles (i.e. snow plough, cleaning and painting machines).

### Application

- Underground and above ground parking facilities of any size
- Multi-level parking facilities
- Wrong driving direction detection on the roads
- Roundabouts, bridges, tunnels
- Ramps and cross sections
- Access control (private garages, gates or barriers)

Technical specification	3DTC
System power supply	8 – 35 V DC
System power consumption	1,5 W
Communication with sensors	CAN bus, 125 kbps
Detection type	Magnetic field detector
Sensor protection	IP67
Sensor installation	Embedded into the floor/ground, under the road surface, on the ceiling of the floor below
Snowplough resistant	Yes
Detection accuracy rate	>99%
System operating temperature	-20 °C to +75 °C
Traffic lanes	Up to 8 Traffic lanes Multi-Counter mode
Max sensor per one traffic lane	10
Max cable length	200 m