

Product description:

A wireless sensor for counting the number of vehicles and measuring speed from KSK Developments transmits accurate data and can be used in various fields. If you need to measure a busy parking entrance or a dirt road in the forest, our sensor will help you do it quickly, economically and accurately.

Low power consumption of our device and 3-x Lithium batteries 3.6V 19Ah allow over 2 years of run time.

Collect data in all directions on the selected lance using a single Traffic Tracker KSK-GR001 device.
Vehicle counting / traffic volume

- Vehicle classification (by vehicle length)
- Presence detection
- Wrong-way driver detection for wrong-way driver alert system



Technical specification:

Power supply:	3 x 3,6 V DC Lithium Battery
Current consumption:	120mA (peak)
Power circuit protection:	1A
Detection:	Geomagnetic + radar
Battery life:	Up to 2 years
Temperature effect:	battery capacity drop in temp <-20C
Settings:	Possibility to configure device by downlink frames
Housing:	Housing made of polycarbonate and stainless steel
Working conditions:	-25° do +80° C;
Dimensions:	Height: 90 mm Diameter: 70 mm

Flammability class according to UL 94:	V0
Connection:	Wireless connection LoRaWAN 868MHz
Ingress protection:	IEC IP67
Mechanical and vibration resistance:	IEC 61984 and UL773 Mechanical: 3g, 11 ms half sinusoid, 18 shakes Vibration: 0.5 mm p-p, 10 to 60 Hz
Communication protocol:	LoRaWAN / SigFox

Principles of operation:

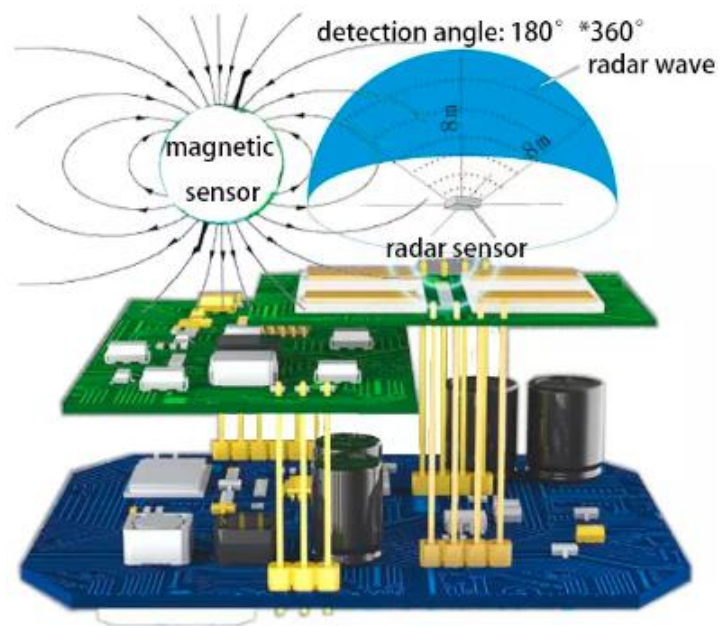
Magnetic Sensor

This detects vehicles by measuring the change in the earth's magnetic field as the vehicles pass over the detector.

Radar Sensor

Radar is capable of detecting distant objects and determining their position and speed of movement. With vehicle detection, a device directs high frequency radio waves at the roadway to determine the time delay of the return signal, thereby calculating the distance to the detected vehicle.

Compare to traditional magnetic sensor which use magnetic method only, the radar & magnetic sensor can largely improve accuracy and enhance anti-interference capability.



Markings:

The product is marked with the mark CE

Warnings:

Improper use:

KSK Developments allows the device to be used only as intended, i.e., to monitor sensor parameters.

KSK Developments is not responsible for any damage related to the use of the system contrary to its intended use.

Incorrect connection:

The device is designed to work with a rated voltage of 3.6 V. Connecting a different voltage may cause irreparable damage to the equipment.

KSK Developments is not responsible for damages related to incorrect connection of the device

About:

This document is for a system developed by the company KSK Developments sp. z o.o.

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