

TRAFFIC EYE DETECTION AND CONTROL STATION

Detection Station for Three Lanes

Infrared detectors placed above the road are used as sensors.

One sensor is needed for each detected lane.



Basic Information

The traffic density is gradually growing and no change in this growth can be assumed in the near future.

Consequently, the frequency of traffic jams and very dense traffic conditions keeps going up.

Development of new transportation routes is facing natural limits. Therefore, the optimal use of the existing traffic space gains importance.

For this purpose, it is necessary to obtain the overall view of traffic situations. Program systems are already available for defining traffic effects of, for example, holiday trips, traffic jams, emissions, and others.

However, the application of such program systems still faces significant cost related to developing the infrastructure and detection areas for sufficient frequency of detecting traffic situations. Thanks to the **Traffic Eye™** detection station concept, these demands put on the infrastructure are minimized.

Low energy consumption allows using solar power supply in the detection unit, which can be very quickly and easily installed everywhere. Thanks to its modular concept, the detection unit can be installed in the existing technical traffic and transportation devices.

Function and Properties

The **Traffic Eye™** detection station does not need any connection to a power supply source and a data line.

Information detected is sent to the control centre via a radio signal and all the power consumption is covered by the energy coming from the solar panel. Since the energy consumption is very low, the power supply module is switched on every 10 seconds only when the station performs calculations and controls. For the rest of the time, it stays in an idle mode requiring negligible electric power consumption. Also the radio module is similarly activated for the same time interval to allow data transmission and after the measured data values are sent it returns back to the idle mode.

Function and Properties

The **Traffic Eye™** detection and measurement station has the following functions and properties:

- Monitoring up to six traffic lanes (tracks)
- Detecting the number of vehicles, occupancy, speed
- Detecting the vehicle type according to its length
- Measuring the speed in the range of 0 to 250 km/hour, detecting stationary vehicles
- Transmitting data via the data line or via the radio signal
- Possibility of power being supplied from the mains or by solar energy
- Compact and robust design making mounting easier.

Installation Example



Contact

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