



Overheight Detection System

ODS



APPLICATION AREA

To prevent damages to buildings like bridges or equipment of tunnels (lighting, signals, ventilation), the ODS controls the height of vehicles at the access roads.

FUNCTIONALITY

The ODS recognizes even small objects (minimum of 5 cm) at a speed of up to 100 km/h. Roads with a width of up to 32 meters can be controlled for height with an accuracy of 2 cm.

Two SAM-S sensors work as reflection light barriers in this application.

The signals of both sensors - and inductive loops, if used - are logically connected in the controller to avoid false alarms that could be caused by birds or falling leaves.

Additionally, the signal quality of the sensors is constantly monitored and an event of fault will be reported by a separate output. The over height alarm output allows to activate warning signs, flashing lights or traffic signals. All events will be logged in the controller to allow the complete documentation of SAM operation.

MOUNTING & ADJUSTMENT

Therefore, only one electrical installation is required on one side. On the opposite side a passive reflector is to be mounted. Due to special beam widening, adjustment is very simple and the detection very stable.



COMPONENTS

Laser Sensor SAM



Modern systems for traffic surveillance, traffic guidance and traffic control require reliable sensors. In contrast to conventional methods, laser sensors offer distinctive advantages. Owing to the optical mode of functioning of the laser detectors, the road construction remains untouched, in addition they can be installed and serviced without interfering with the flow of traffic.

SAM (Sensing and Activating Module) is an infrared laser detector offering various possibilities for traffic surveillance. Due to the exceptional technology used for analysis SAM recognises objects in 12 selective range slots. Presence and distance information together result in a markedly fail-safe and more precise analysis.

ODS Controller



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