ALDRIDGE

Over-height Detection System

VEHICLE DETECTION / SENSOR TECHNOLOGY

OVER-HEIGHT VEHICLE DETECTION

Installing a reliable over-height vehicle detection system prior to a bridge or tunnel can instantly activate downstream warning devices that can alert the operator of the vehicle of the danger ahead and prompt them to take evasive action, preventing high value assets such as bridges and tunnels from being struck.

An overheight detection system monitors a vehicle's height and gives drivers or Road Management Authorities advanced warning if the vehicle exceeds the maximum height for an approaching overhead structure.

At Aldridge we can design, develop and install off the shelf and bespoke solutions for over-height vehicle detection. The system consists of a laser scanner detector combined with a control unit to trigger an electronic warning sign.

Our solution saves time, money and subsequent effects that may impact business, insurance and the community as a result of an asset being stuck. In most cases it only takes the prevention of one significant impact to pay for an entire over-height detection system.

Case Study: Our customer rents excavators and other heavy equipment that is loaded onto a flat deck truck. These loads have the potential to exceed maximum vehicle heights and therefore pose a strike risk to infrastructure such as bridges. To mitigate this risk and to alleviate our customer of the responsibility they required a detection system to alert their despatch office that the vehicle exiting the facility contained a load that was overheight. This enables the carrier to make adjustments to reduce the overall height to a legal height prior to leaving the premises.

Solution: A pre-calibrated over height laser scanner system with 4 planes of detection, powered by solar panels and batteries was installed on the exit road leading to the gate house. Once an over-height load was detected an audible alarm is triggered combined with a wireless signal sent to an LED enhanced flashing warning sign located at the gate house. This enables both the load driver and gate house staff to be notified the load is over-height preventing the vehicle from exiting the premises.

SYSTEM FEATURES

Applications

- Detection of vehicles that are too high to pass under bridges or enter tunnels
- Detection of over-height vehicles and corresponding lanes
- Detection of ships or boats that are too high to pass under bridges
- Vehicle travel direction detection
- Wrong Way traffic detection

System components

- Infrared beam transmitters & receivers
- Electronic warning sign
- Uninterruptible power supplies
- Inductive traffic loop
- Laser scanner technology sensors
- Electronic warning signs with flashing LED beacons

Overheight Detectors

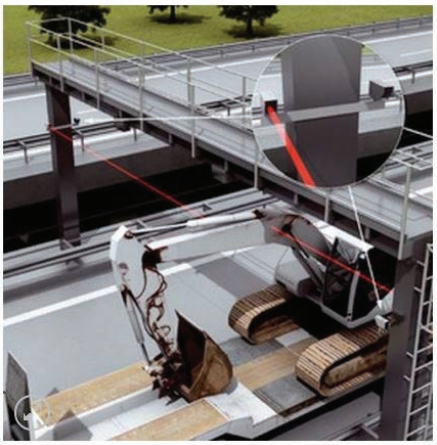
- Laser scanner technology
- Reinforced polycarbonate casing
- Weatherproof rating to IP65
- Detection distance: 30m
- Maximum vehicle speed: 150 km/h
- Operating temperature: -20 ° – +50 °

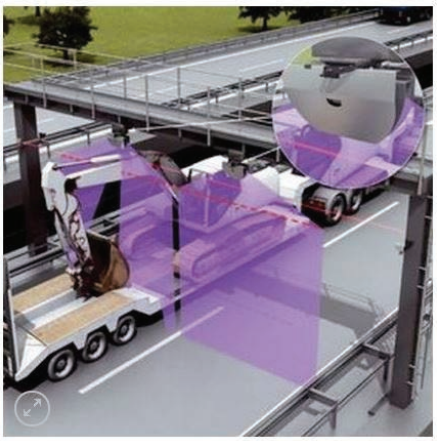
Electronic Warning Signs

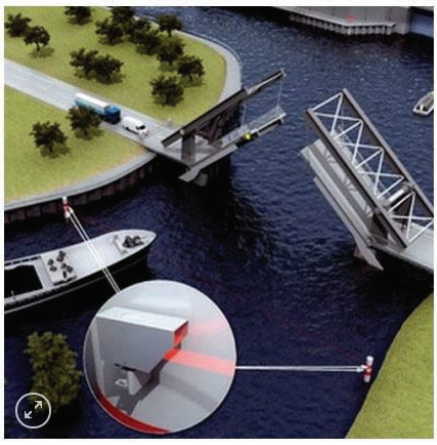
- Ultra-bright LED flashing beacons
- Static or variable message sign display
- Solar or mains power connectivity

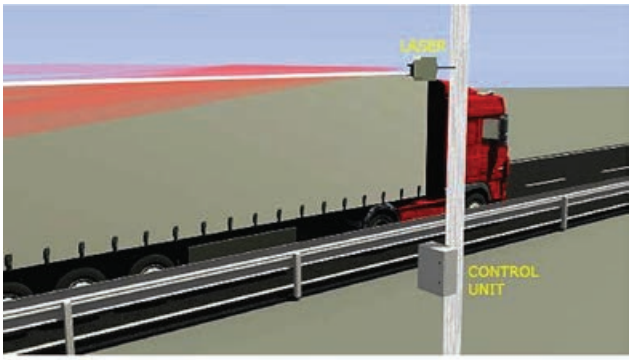
Optional Extras

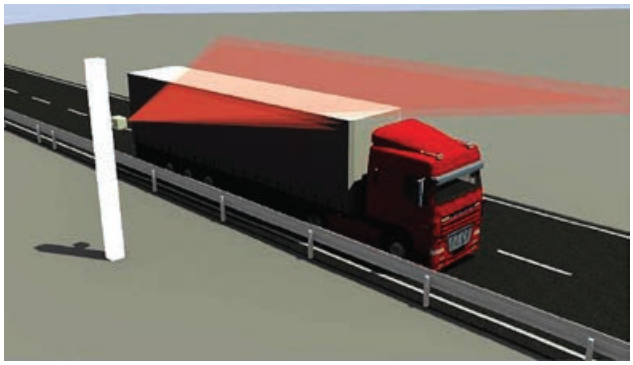
- Video
- Traffic counter
- Audible alarm
- Uninterruptable power supplies (optional)











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