

OUR HIGH-TECH OBSTACLE DETECTION SYSTEMS PREVENT FATAL RAILWAY ACCIDENTS



3D OBSTACLE DETECTION SYSTEMS

We are developing advanced 3D sensors and laser scanners for use in railway safety applications. Our systems are designed to detect obstacles and monitor dangerous areas such as level crossings, station platforms, tunnels, bridges, viaducts, places under the road overpasses etc.

We can detect dangerous situations such as cars or people who remain stuck at the level crossing, passengers who have fallen from the station platform to the track, lost load and other objects that have fallen from overpasses, landslides, avalanches, mud, rocks, trees and other dangerous obstacles.

Our devices operate in all lighting conditions (day, night, direct sunlight) and in the most severe weather conditions. Obstacles can be reliably detected regardless of the type of material. The detection threshold of a dangerous object can be set according to its size or other parameters that are relevant for a specific safety application. Monitoring of larger perimeters can be performed by several separate sensors connected to a common control system.

- **SIL4 PRODUCT**
- **CLASS 1 LASER PRODUCT**
- **ADVANCED OBJECTS RECOGNITION FEATURES**
- **50 M OPERATION RANGE**
- **BROAD FIELD OF VIEW**
- **HIGH POINT RESOLUTION**
- **EASY INSTALLATION**

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SALVIS LC LEVEL CROSSING OBSTACLE DETECTION SYSTEM

Our Level Crossing Obstacle Detection System SALVIS LC is aimed at reduction of risk and number of fatal accidents at railway level crossings.

A three-dimensional (3D) laser scanner is installed on the mast near the level crossing. Before the train's passage it starts scanning the entire level crossing area. If dangerous objects like cars or humans are detected, the system will alert the interlocking system or wireless communication system and immediately stop the approaching train before the level crossing.

The superiority of our SALVIS solution in comparison with other obstacle detection technologies are: advanced objects recognition features (broader field of view, high point resolution, low object reflectance), reliable and safe operation in harsh railway environments (dirt, dust, vibrations, rain, snow, high temperature, immunity to direct and reflected sunlight), low initial investment, easy installation and use, low maintenance costs etc.

SALVIS X OBSTACLE DETECTION SYSTEM FOR MONITORING OF RAILWAY TRACKS UNDER THE ROAD OVERPASSES

Our Obstacle Detection System SALVIS X is aimed at reduction of risk in the dangerous zones where roads overpass the rail tracks.

A three-dimensional (3D) laser scanner is installed on the trackside mast in the vicinity of the road overpass. The system scans the railways tracks in the endangered area. If dangerous objects like lost loads are detected, the system will alert the interlocking system or wireless communication system and immediately stop the train before the obstacle and prevent its accident.

The superiority of our SALVIS solution in comparison with other obstacle detection technologies are: advanced objects recognition features (extended detection range, broader field of view, high point resolution, low object reflectance), reliable and safe operation in harsh railway environments (dirt, dust, vibrations, rain, snow, high temperature, immunity to direct and reflected sunlight), low initial investment, easy installation and use, low maintenance costs etc.

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