

Over-Height Detection Monitoring & Control System

Overview

Strikes on bridges and tunnels by over-height trucks and vehicles are a major issue for many cities and DOTs. Often, bridge strikes occur on low-vertical clearance bridges over parkways or other roadways prohibited from truck traffic. Bridge and tunnel strikes can cause serious damage to the bridges and tunnels and in some cases cause a significant threat to public safety. These strikes can result in severe congestion due to trucks being stuck under the bridge.

Having an early warning system can lead to a significant reduction in bridge strikes. By using highly accurate laser detectors and warning signals, advanced visual warning to over-height vehicles is provided to prevent potential bridge strikes. The system warns over-height vehicles with either flashing beacons or an electronic Dynamic Message Sign (DMS). The system also uses CCTV cameras to provide visual verification of over-height vehicles and strike events. When an over-height vehicle is detected, a short video clip will show the status of the bridge.

The Glance Monitoring System is a robust and non-intrusive solution, connecting in-field assets and implementing advanced remote management to transit infrastructure. Easy management and proper functionality of multiple units is ensured through the Glance cloud-based platform.

Features & Benefits

- ✓ Improves bridge and tunnel strikes prevention with early warning system
- ✓ Identifies over-height vehicles using cameras and Quick Look technology
- ✓ Solar options and cellular communications can reduce infrastructure costs
- ✓ Increased system performance with automated continuous monitoring and reporting
- ✓ Text and Email alerts when faults are detected
- ✓ Decreases damage to infrastructure and vehicles



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AI-500-085-04

Connectivity

Cell Modem*	4G LTE High Speed Modem
900MHz Radio	Yes
Ethernet	4-Port Ethernet Switch
GPS	Yes
Knockdown Sensor	Yes

Industrial I/O

Digital Outputs	10 (2 as NO/NC Relay, 8 as 24VDC ground true)
Digital Inputs	8 (4 as 120VAC/12-28VDC selectable, 4 as 12-28VDC)
Analog Inputs	8 (4 as 120VAC/12-28VDC selectable, 4 as 12-28VDC)

Miscellaneous

Operating Systems	µC/OS-II
Battery Backup	Yes
Operating Temperature	-40°C to 80°C
Humidity	5-95% non-condensing
Dimensions	8.5" x 5.5" x 3"
Input Voltage	24V DC
Manual Preempt Selector	Yes
Flash Disk	Yes

