



When you  
think signs,  
*think Signal-Tech!*



# Overheight Detection System *Control Module*

**Signal-Tech**  
LED Directional Signs & Signals

# What is the Overheight Detection System?

The Overheight Detection System is a simple solution that can be added to existing physical barriers, such as Signal-Tech's IBAR clearance bars, helping to prevent property and vehicle damage and promoting facility safety. It is made of up to five unique components:

## Core System Components

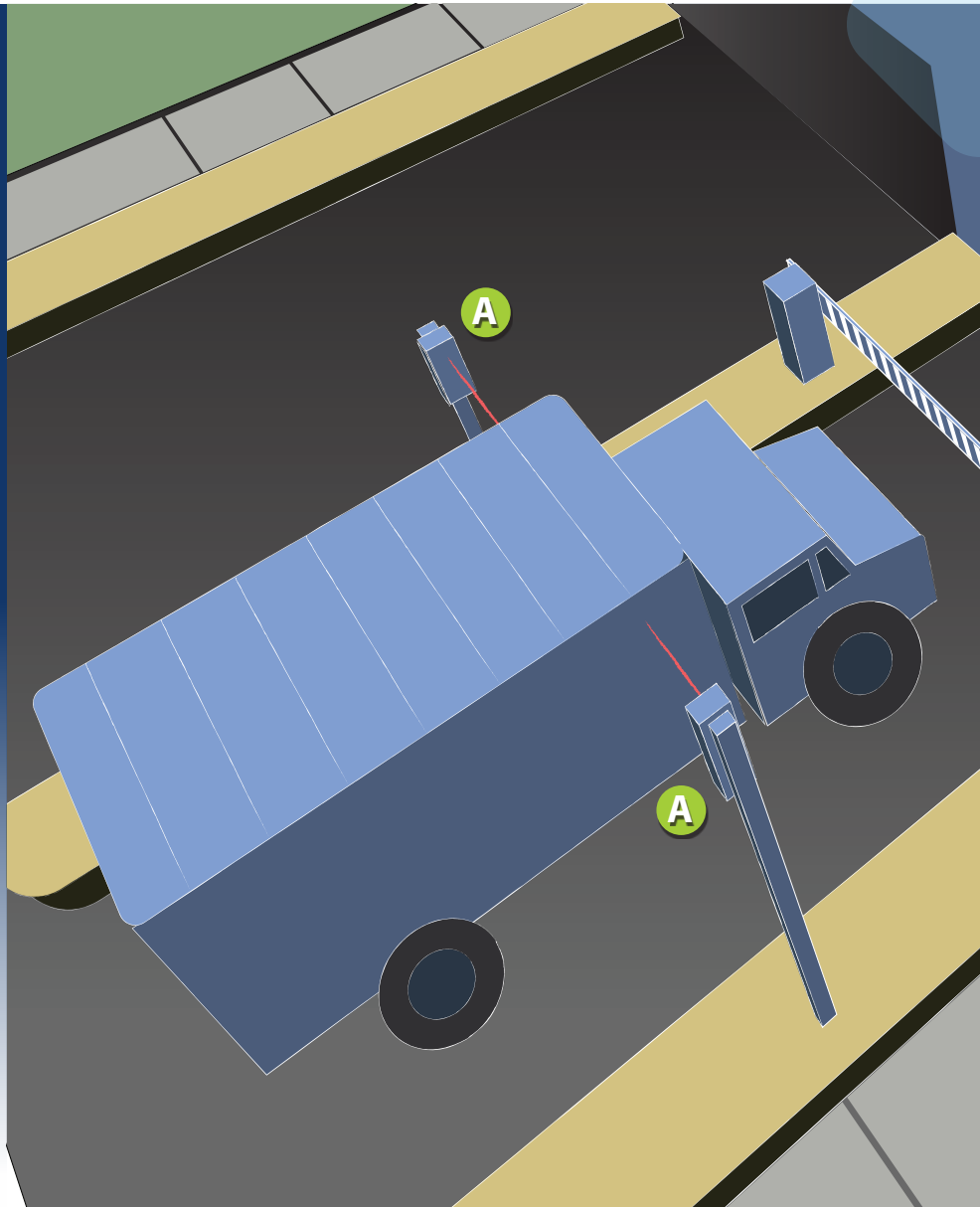
### A Sensor / Receiver

Our Sensor and Receiver detects only vehicles at a specific height and higher. This Sensor triggers all other components of the Overheight Detection System. *(Post sold separately)*



### B Control Module

The Control Module allows the Overheight Detection System's sign and audio accessories to be activated for a time span specified by the user.



## Finish your System

In addition to the Overheight Detection System's two core components (A - Sensor/Receiver B - Control Module), the system is completed by adding three optional pieces: C - Signage, D - Auxiliary Visual Alerts, and E - Audio Accessories. Installing these three add-on components will maximize the system's ability to prevent property damage and protect motorists.

### C Signage

A low-voltage (24 VDC) or line voltage (100-240 VAC) direct-view or backlit LED sign is used to visually alert drivers that their vehicle is overheight and could cause a collision.



# Signal-Tech

877-547-9900



# How does the Overheight Detection System Work?



**Create an Overheight Detection System that includes everything you need from one source!**

The system uses a specially designed through-beam sensor pair to detect vehicles that are too tall to enter a facility. When properly installed and maintained, the sensor pair is resilient against the elements, minimizing false triggers.

When a vehicle breaks the sensor's dual IR beam, its relay output triggers the Overheight Detection System's Control Module, which activates all the components of the Overheight Detection System for a time span of 1-99 seconds as programmed by the user.

While illuminated, the LED sign – which is readable in direct sunlight – alerts drivers that their vehicle is overheight and could cause a collision with an overhang, ceiling, or canopy, ultimately causing damage to the vehicle and the facility. The LED sign should be installed in a location that gives drivers adequate time to see the sign, read its warning message, stop, and avoid a collision.

In addition to illuminated signage, the Overheight Detection System can be equipped with auxiliary visual alerts, such as beacon strobes or flashing lights, activated and kept illuminated by the Control Module. These added visual cues help garner more attention than the illuminated sign by itself.

Finally, audio accessories can be added to the Overheight Detection System to bolster its ability to warn drivers of overheight situations. Audio accessories are also activated and kept audible by the Control Module, maximizing the system's warning capabilities.

Signal-Tech's Overheight Detection System is a smart, proactive way to promote safety and prevent costly property damage.

## **D** Auxiliary Visual Alerts

Additional visual alerts, such as strobes and flashers, can be added to the Overheight Detection System to enhance its ability to alert drivers.



## **E** Audio Accessories

Audio accessories help to further alert drivers that their vehicle is overheight and may cause a collision. They can be adjusted as loud as 95dB at 10 feet and can be anything from a buzzer or chirp to a spoken-word warning message.



# We do **MORE** than you think...

## System Specifications

### General Specifications

- Total power consumption: 1W plus LED sign consumption

### Sensor Pair

- Optex OVS-50TNR Dual Through Beam Sensor
- 50ft (15.24m) max detection range
- Twin infrared beam interruption detection
- Easy to install (no wires to transmitter)
- 24VDC input (receiver; supplied by Control Module)
- 8-year battery life w/ low-battery indicator (transmitter; batteries included)
- Adjustable alignment angle:  $\pm 90^\circ$  horizontal,  $\pm 5^\circ$  vertical
- Adjustable interruption time: 20, 100, 250, 500ms
- Form C relay output: SPDT, NC and NO (receiver)
- Temperature range:  $-4^\circ\text{F}$  to  $140^\circ\text{F}$  (95% RH, non-condensing)

### Control Module

- Operating voltage: 24VDC or 100-240VAC (depending on model #)
- Adjustable activation timer: 1-99 seconds
- NEMA 4X enclosure
- Relay output rating: 1A (AC); 4A (DC)

### Signage & Accessories

- Operating voltage: 24VDC or 100-240VAC (depending on model #)
- Power consumption: Varies (refer to sign's spec sheet)
- Flashing: Optional
- Audible alarm: Optional
- Strobe: Optional

**Create a complete  
Overheight Detection System  
that includes everything you  
need from one source!**

**Signal-Tech**  
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