



Side Object Detection System for Straight Trucks

Altra Technologies delivers the latest in collision warning technology. Our systems are designed to increase safety, decrease operating costs, and generate additional profit, utilizing the industry's first modular, low cost, expandable design.

The Side Object Detection System for Straight Trucks was developed to give driver's assistance when changing lanes and making turns. The sensors are placed near the front of the vehicle and cover the driver's blind spots.

Altra has developed a unique sensor technology that combines maximum range information with superb accuracy. This combination provides for precision assistance and early warning of potential hazards. This cuts costly accidents and improves driver productivity.

Altra's Applications Engineering team will work with you to customize a specific solution to your collision warning requirements. Call us today to discuss your individual needs.

***Collision
Warning
Systems***



Features

- Ultrasonic technology delivers precise, consistent, and reliable detection in all weather conditions
- System minimizes false alarms and operator distractions
- Intelligent "smart sensors" keeps cost down
- Able to detect objects within 20 feet
- Field upgradable: allows you to expand coverage to include rear ranging and active braking
- Other upgrades available include fire detection and open door sensors

Components

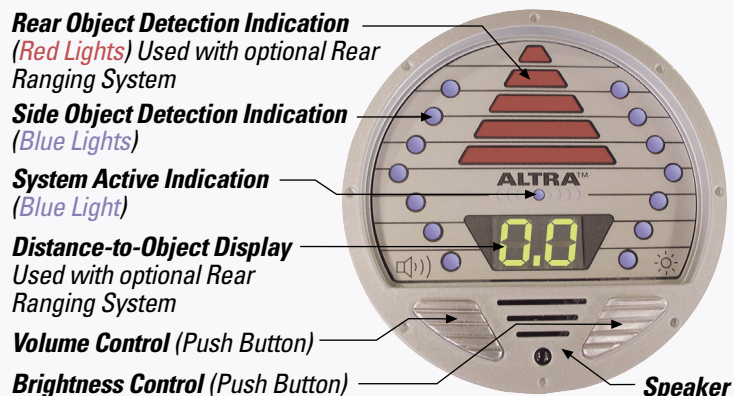
Altra's systems are built using an array of modular components. This approach gives each customer the flexibility to tailor a system that meets their specific needs. The following are the components needed to build a standard Side Object Detection solution for straight trucks.

Driver Vehicle Interface (DVI)

The DVI is mounted on or in the dash. It provides the driver with visual and audible warnings of most hazardous conditions in areas monitored by sensors. It also provides range information for drivers' use with our Rear Ranging System. It is capable of providing alarms on other types of conditions for special customer needs (e.g. fire alarm, door open). The DVI also provides automatic adjustment of light levels on its displays to compensate for varying lighting conditions in the cab and a volume adjustment for the audible alarm.

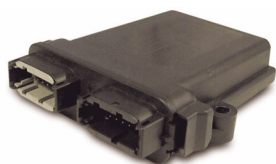


Driver Vehicle Interface - Front Display



AltraSensor

AltraSensors are mounted on the sides of the truck. Working in conjunction with the SSP, these sensors employ a proprietary technology to achieve superior detection capability. Altra's system provides effective detection and early warning of potential hazards. The sensors are built to withstand shock, vibration and a wide range of temperatures and each sensor is designed to perform over a broad range of environmental conditions.

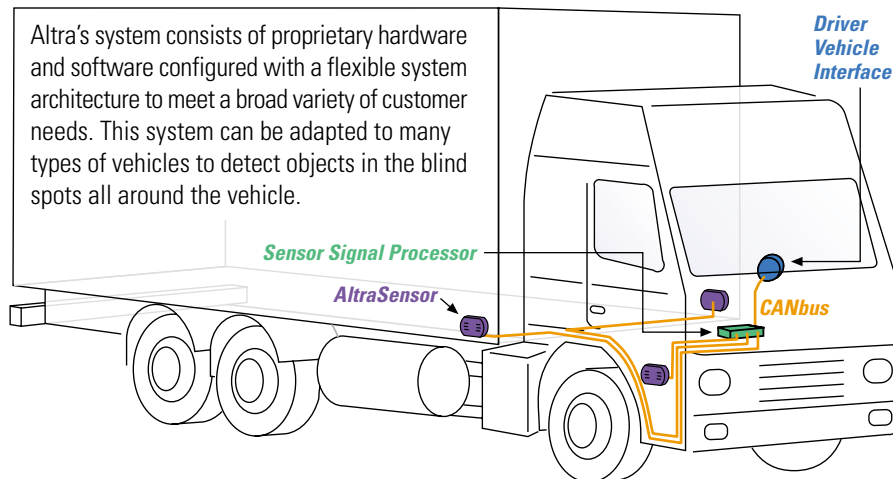


Sensor Signal Processor

The Signal Sensor Processor (SSP) mounts in the cab, out of sight. The SSP receives electronic signals from the AltraSensors, processes the electronic signals (patent pending) to determine the range to objects in vicinity of the AltraSensor, and transfers pertinent data to the DVI.

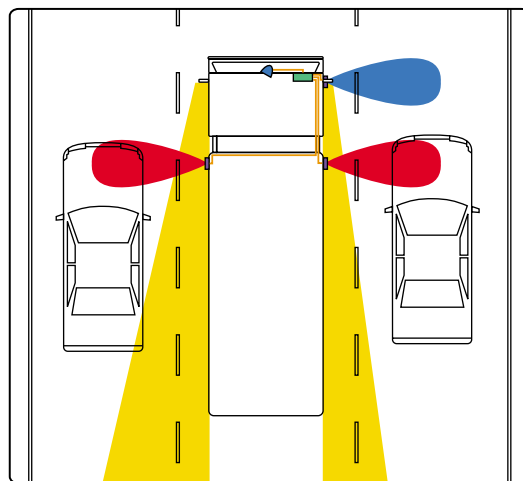
All Altra Technologies Collision Warning System Components are rigorously tested and comply with SAE J1455.

Architecture



Typical Scenario

- Driver's viewing area
- Sensor detection area
- Optional front end coverage



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and other patents pending.