TECh hf

Vehicle Technology.

TECh Corner Detection System

Ultrasonic sensor system designed to warn and assist drivers

What are low speed accidents costing your company?

The Front Corner Detection system is an ultrasonic sensor system designed to warn and assist drivers of their vehicle's position whilst carrying out restricted manoeuvres. By reducing the number of accidents caused in low speed and turning maneouvers, vehicle and driver downtime and outgoing costs are reduced.

Accidents cause damage and reduce profits

- Accident injuries. Costs with staff downtime and medical costs. E.g. Someone hit or injured or even a fatality.
- The smallest of accidents can result in costly repairs. With modular bumpers carrying integrated lighting, impacts to this area of the vehicle are now more expensive than ever.
- 3rd party damage. Unpredictable costs ranging from walls, fences, bollards, vehicles etc. These not only reflect on your running profits, but also on 3rd party's profits.
- Vehicle downtime. Vehicles that aren't on the road when they should be, are costing you money! Drivers that are unable to perform their duties due to no available vehicle can perform other tasks, but is primarily non-productive.

The benefits

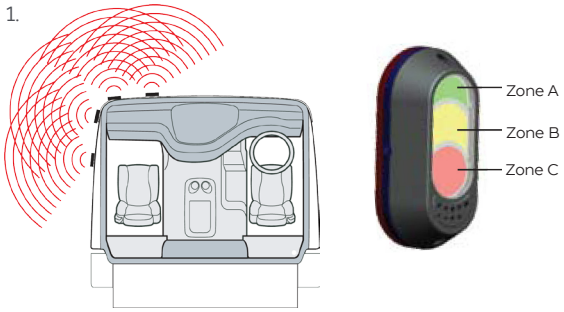
- Reduced vehicle downtime.
- Reduced downtime of operators/employees.
- Driver awareness is increased through repetition and their ability to judge distances from vehicle to objects is increased.
- Additional focus placed on this area being a potential hazard.

How it works

The Corner Detection system is a modern supervisory system on an ultrasonic basis specically designed for HGV's and lorries. When the vehicle slows to around 10Mph, the FCD monitors the area on the front nearside and/or farside of the vehicle during the turning procedure. If an object is detected, it then warns the driver visually, and then nally with an audible tone through the display/buzzer, of any obstacles that may be in its path. The system is designed to offer assistance whilst turning into tight areas and that the driver should still use caution when turning. The FCD system consists of a 4 Ultrasonic sensor eyes (2 to be mounted on the front bumper and 2 to be mounted on the nearside bumper/ step and wheel arch), a display with internal piezo tone buzzer (to be mounted on the A-Pillar, at side mirror height, facing towards the driver's position) and a Control Module (to be mounted behind the dash).

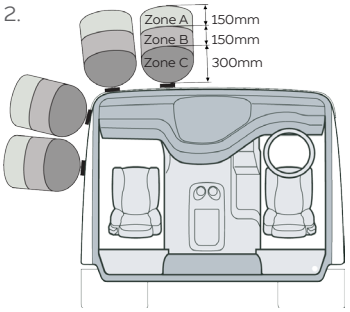
Drivers are given warnings allowing them to avoid manoeuvring and low speed accidents

1.



System designed to protect nearside and/or farside of vehicle cab

2.



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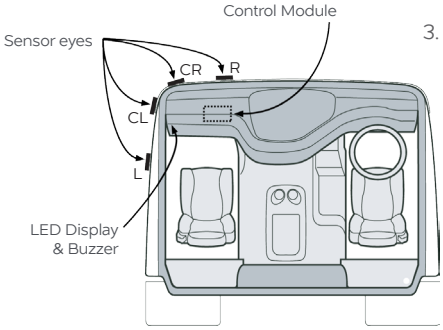

All detection zones are approximate due to the installation position, shape of the object and reflected signals may mis-lead the detecting sensor. In order to get a more accurate detection value, please try to test varied objects in different angles when installing.

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