

OnLaneALERT®

LANE DEPARTURE WARNING SYSTEM



WABCO

AN EXTRA EYE ON SAFETY



STAY ON TRACK

OnLaneALERT Lane Departure Warning System (LDWS) is a camera-based Advanced Driver Assistance System that helps avoid unintentional lane drifting. The system utilizes a forward-looking windshield-mounted camera to monitor the vehicle's position within the lane. When OnLaneALERT detects the vehicle crossing lane markings without a turn signal, the system provides a warning sound from the speaker on the side of the vehicle where it crosses the lane markings. This prompts the driver to take a corrective action to prevent potential collisions or road run-offs.

HELPS IMPROVE SAFETY

Running out of a travel lane, either into another lane or off the road, is the no. 1 critical event for large truck accidents*. Each year there are thousands of accidents involving trucks caused by accidental lane departure; 48% of these would have been avoidable if the truck was equipped with a lane departure warning system**.

Meeting that need today OnLaneALERT is a powerful tool that can help reduce road run-offs, side swipes, and head-on collisions caused by driver inattention or fatigue. The system positively supports drivers' lane changing habits, which in turn enhances a fleet's overall safety record, decreases accident rates and improves CSA compliance. In addition, OnLaneALERT's lane departure event notifications can be integrated into many telematics providers' systems, enabling fleet owners to gain additional perspective into their driver performance.

VIDEO CAPTURING AND ANALYTICS

OnLaneALERT optionally integrates with SmartDrive™ driving performance management systems enabling advanced video analytics. Utilized as the forward-facing camera, OnLaneALERT is able to stream videos for recording with near real-time downloads and provide SmartDrive with further details on driving behavior for analysis. Video capturing and analytics offer the potential for improving overall driving behavior through tailored driver coaching. They also help analyze accident root-causes and thereby support insurance claims and legal exposure.

OnLaneALERT warns of imminent unplanned departures from the current lane

- Monitors lane markings and evaluates vehicle position within the lane
- Recognizes when the vehicle crosses lane markings
- Distinguishes between intended lane changes and unintended lane drifts based on turn signal usage
- Alerts the driver to take corrective action to avoid unintentional lane departure



* Federal Motor Carrier Safety Administration Office of Research and Analysis Publication No. FMCSA-RRA-07-017, 2007

** FMCSA Onboard Safety Systems Effectiveness Evaluation, 2013

CONTRIBUTES TO UPTIME

Road accidents have the potential to cause significant vehicle downtime. As unintended lane departure as one of the most common causes of road accidents involving a commercial vehicle, OnLaneALERT is an effective investment contributing this key performance indicator. It can help to reduce accident-related downtime by up to 15%* **.

RETURN-ON-INVESTMENT

OnLaneALERT is a worthy investment to support accident prevention, vehicle uptime and on-time delivery. The system's benefits are underlined by a payback of - depending on the application - 4 to 12 months**.

INNOVATIVE TECHNOLOGY – RELIABLE PERFORMANCE

OnLaneALERT's high resolution HDR camera adapts easily to changing light conditions and enables SmartDrive™ video analytics while eliminating the need for an additional forward facing camera.



The OnLaneALERT processor is fully integrated with the camera into one compact unit and hosts the intelligent, advanced lane tracking algorithm. As a result, the system detects and classifies a broad range of different lane markers and reliably tracks and projects the lane ahead of the truck.



FOCUS ON DRIVER ACCEPTANCE

To ensure safe vehicle operations and driver acceptance OnLaneALERT follows an intuitive approach to interact with the driver. For example, in conditions where no lane markers are available or existing markings are covered by snow or dirt, OnLaneALERT will inform the driver of the issue, but automatically suppress any false warnings. Ideally for passing construction zones, OnLaneALERT can be manually disabled. While avoiding false warnings in an already stressful driving situation, the system will automatically reactivate itself after 10 minutes or when the driver presses the button again.

ADDRESSES DRIVER SHORTAGE

Advanced Driver Assistance Systems enable fleets to attract and retain a new generation of drivers and OnLaneALERT is no different. By helping to keep the truck in its lane, OnLaneALERT gives inexperienced drivers an opportunity to become more familiar with the operation of a commercial vehicle on a variety of roadways.

HASSLE-FREE: EASY INSTALLATION ACROSS DIFFERENT TRUCK PLATFORMS

OnLaneALERT is available as an option on multiple vehicle platforms from a broad range of truck brands. The system allows fleets to individually customize a wide range of diverse warning parameters:

- Different sound volumes for start-up check and actual warning
- Speed dependent sound volume
- Suppression due to turn signal behavior

Automatic calibration and integrated diagnostics simplify setup and operation, while ensuring easy maintenance. WABCO further supports the system's maintenance with dedicated training material.

DEDICATED DRIVER TRAINING

To ensure a successful customer roll-out of OnLaneALERT, WABCO supports fleets with tailored driver trainings, helping them better understand the system and how to optimally interact with it. WABCO's experienced trainers are available to run driver trainings on-site as well as offer a broad range of driver training tools.

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** FMCSA Onboard Safety Systems Effectiveness Evaluation, 2013



DESIGNED TO MEET YOUR NEEDS

OnLaneALERT represents another stepping stone in WABCO's commitment to enhance vehicle safety and driver effectiveness and is an integral part of WABCO's rich suite of modular Advanced Driver Assistance Systems. As one of the most experienced partners to the commercial vehicle industry, it is our philosophy to leave the choice in the hands of our customers. That is why today OnLaneALERT is available as an individual solution and can also be integrated with WABCO's other safety products. And with that, we are truly empowering tomorrow's fleets.

**For further product details contact your sales representative or
WABCO Customer Care Center +1 (855) 228-3203**

About ZF Friedrichshafen AG

ZF is a global technology company and supplies systems for passenger cars, commercial vehicles and industrial technology, enabling the next generation of mobility. ZF allows vehicles to see, think and act. In the four technology domains Vehicle Motion Control, Integrated Safety, Automated Driving, and Electric Mobility, ZF offers comprehensive solutions for established vehicle manufacturers and newly emerging transport and mobility service providers. ZF electrifies different kinds of vehicles. With its products, the company contributes to reducing emissions and protecting the climate.

ZF, which acquired WABCO Holdings Inc. on May 29, 2020, now has 162,000 employees worldwide with approximately 260 locations in 41 countries. In 2019, the two then-independent companies achieved sales of €36.5 billion (ZF) and \$3.4 billion (WABCO). For more information, visit:

www.wabco-na.com