

# OnSide<sup>®</sup>

## BLIND SPOT DETECTION SYSTEM



**WABCO**

# YOUR BLIND SIDE SAFELY COVERED

## SUPPORTS LANE CHANGES

OnSide Blind Spot Detection (BSD) is a radar-based Advanced Driver Assistance System that supports drivers in passing and lane change maneuvers to help avoid side collisions. The system utilizes a best-in-class short range radar mounted at the side of the truck cabin to constantly monitor the vehicle's passenger side blind spot.

**LIMITED**  
truck driver **VISION**  
contributes to  
**~20%** of **truck initiated**  
**CRASHES\***

Can help to  
**PREVENT** up to **50%**  
or mitigate of  
truck driver vision related  
**CRASHES ANNUALLY\*\***

Addresses  
**BLIND SPOT No.1\***

When OnSide detects a moving vehicle in the monitored blind spot, the system provides a visual warning from the OnSide display mounted in the passenger side A-pillar close to the rear view mirror.

When the turn signal is activated, if OnSide detects a moving vehicle in the blind spot, OnSide provides an additional audible alert, warning the driver that the adjacent lane is not clear. Thus, the system effectively assists truck drivers in checking adjacent lane clearance before merging.

## HELPS IMPROVE SAFETY

Each year about 384,000 crashes involve large trucks.\* About 20% of truck-initiated crashes occur in configurations in which limitations to truck driver vision may have been an important factor contributing to the crash.\*\* Blind Spot Detection Systems could prevent or mitigate up to half of truck driver vision related crashes annually\* \*\* Thus, blind spot detection appears to be the most promising new feature for reducing such crashes.\*

Meeting that need today, OnSide is a powerful tool that can help reduce side collision caused by limited driver vision, inattention or fatigue. And while supporting driver routine of regularly checking the side view mirror, the system reinforces good driving behavior and lane change habits. In this manner, OnSide is capable to enhance a fleet's overall safety record, decreases accident rates and improves CSA compliance. In some cases it can even help to minimize a fleet's insurance cost.

In addition, OnSide's blind spot detection notifications can be easily integrated into many telematics providers' systems, enabling fleet owners to gain additional perspective into their driver performance.

### Supports drivers in passing and lane change maneuvers to help avoid side collisions

- Constantly monitors the vehicle's passenger side blind spot
- Warns of moving vehicles appearing in the blind spot
- When the turn signal is activated, OnSide provides an additional audible alert, warning the driver that the adjacent lane is not clear



### Utilizes best-in-class sensor technology

- Provides a premium 160° range of coverage
- Features industry-leading reach of up to 33ft rearwards
- Unique algorithm filters out stationary objects for optimized driver acceptance
- Can be mounted behind the fairing for less wear and tear and to maintain the vehicle aesthetics

\* Prioritizing Improvements To Truck Driver Vision, UMTRI 2006

\*\* Large trucks to benefit from technology designed to help prevent crashes, IIHS/LDI 2010

## CONTRIBUTES TO VEHICLE UPTIME

Road accidents have the potential to cause significant vehicle downtime – therefore, accident prevention can help to keep your trucks running. Limitations to truck driver vision is one of the most common causes of road accidents involving a commercial vehicle. OnSide is an effective investment to support accident prevention, vehicle uptime and your on-time delivery to satisfy your customers.

Can help to  
**IMPROVE**  
accident related  
**VEHICLE**  
**DOWNTIME** **BY UP TO 10%\*\***

## FOCUS ON DRIVER ACCEPTANCE

To ensure safe vehicle operations at optimized driver acceptance, the unique OnSide algorithm focuses on moving vehicles appearing in the vehicle's passenger side blind spot, while it filters out stationary objects.

## ADDRESSES DRIVER SHORTAGE

Advanced Driver Assistance Systems enable fleets to attract and retain a new generation of drivers, who are looking for a technology-enhanced driving experience. By assisting in checking adjacent lane clearance before merging, OnSide gives less experienced drivers an opportunity to become more familiar with the dimensions and vision limitations of a commercial vehicle.

## DEDICATED DRIVER TRAINING

To ensure a successful fleet roll-out of OnSide BSD, WABCO supports fleet customers 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.

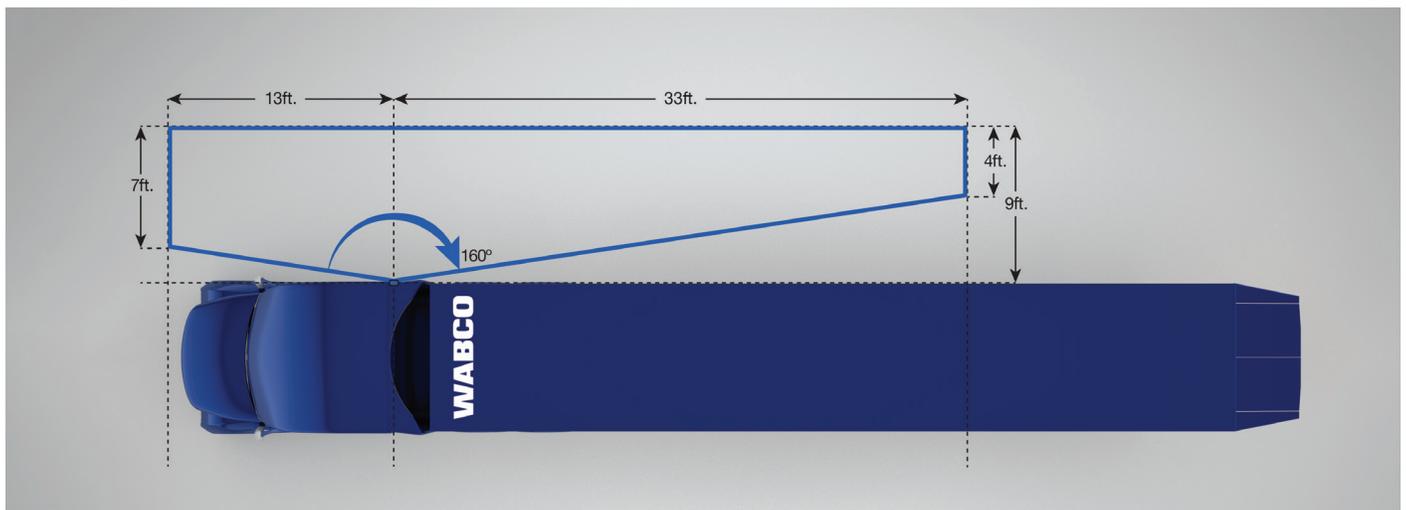
## INNOVATIVE TECHNOLOGY – RELIABLE PERFORMANCE

OnSide builds on best-in-class radar technology, which performs reliably even in low visibility conditions. With an unparalleled 160° field of view and an industry-leading reach of up to 33ft. rearwards the premium 24 GHz short-range radar allows for optimal blind spot coverage. The radar continuously detects a wide variety of stationary and moving objects in the vehicle's passenger side blind spot, while the algorithm filters out the stationary objects to allow the system to warn the driver only of moving objects. Thanks to its strength the radar can be mounted behind the fairings to maintain the vehicle's aesthetics.



## HASSLE-FREE: EASY INSTALLATION AND MAINTENANCE

OnSide Blind Spot Detection is available as a factory-install. If the radar is not mounted behind the fairings to help avoid wear and tear, a protecting fascia prevents the radar from damage, dirt and extensive snow and ice buildup, making the radar more robust. The integration into WABCO's TOOLBOX™ diagnostics further ensures easy maintenance. In addition, WABCO supports fleets through its skilled technical service team to allow for seamless operations.





## DESIGNED TO MEET YOUR NEEDS

OnSide represents another corner 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 OnSide is available as an individual solution within WABCO's extensive ADAS suite and can therefore be individually installed without requiring fleets to purchase additional systems when these are not deemed necessary today. 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](http://www.wabco-na.com)