OnGuardACTIVE®
The All Season System ☀️❄️🍂🌞

COLLISION MITIGATION SYSTEM

WABCO
**CO-PILOT ON THE ROAD**

WABCO’s OnGuardACTIVE® Collision Mitigation System (CMS) is designed to assist truck drivers in recognizing and responding to dangerous driving scenarios that could lead to a rear-end collision with a moving or stationary vehicle ahead. This radar-only active safety system provides Forward Collision Warning (FCW), Active Braking and Adaptive Cruise Control (ACC). When a collision is imminent, OnGuardACTIVE alerts the driver with a dedicated warning sequence. If the driver still does not take corrective action, OnGuardACTIVE automatically reduces engine torque and applies the foundation brakes to help prevent or mitigate the impending rear-end collision.

**IMPACTS SAFETY**

More than 20% of all large truck accidents are rear-end collisions.* Up to 20% of those accidents happen on stationary targets**, another up to 20% happen in low visibility conditions***. OnGuardACTIVE addresses them all! The system provides Active Braking on both moving as well as stationary vehicles, and it’s 77Ghz radar ensures reliable performance even in low visibility conditions.

OnGuardACTIVE’s Forward Collision Warning features audible beeps, visual alerts and a haptic warning, which is a quick brake pulse to accelerate the driver’s response to imminent collisions. Furthermore, the system’s ACC is available to assist the driver to maintain a safe following distance. In addition, OnGuardACTIVE’s event notifications and active interventions can be integrated into many telematics and monitoring systems, enabling fleet owners to gain additional perspective into driving performance. In this way, OnGuardACTIVE is a powerful tool that can help reduce rear-end collisions by up to 87%**** to enhance a fleet’s overall safety record, decrease accident rates and improve CSA compliance.

**WARNING** OnGuard® is designed to create high vehicle deceleration (without driver intervention) in certain situations. To reduce the risk of injuries caused during OnGuard®-activated vehicle deceleration, all vehicle occupants should be correctly seated and properly belted or restrained during vehicle operation. All loose items should be secured so that they will not fly forward and cause injury during a deceleration event. The use of OnGuard® in vehicles not equipped with seat belts may expose non-belted passengers to injuries due to system initiated sudden vehicle deceleration, despite vehicle compliance with applicable safety standards.

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* The Large Truck Crash Causation Study, FMCSA 2007
** Performance Characterization and Safety Effectiveness Estimates of Forward Collision Avoidance and Mitigation Systems for Medium/Heavy Commercial Vehicles , UMTRI 2012
*** Field Study of Heavy-Vehicle Crash Avoidance Systems, NHTSA 2016
**** As reported by fleets at WABCO’s Fleet Advisory Council, 2014
**PROVEN RETURN ON INVESTMENT**
OnGuardACTIVE is a worthy investment to support accident prevention, vehicle uptime and on-time delivery. Fleets using OnGuardACTIVE report a reduction in rear-end collision costs by up to 89%.

In addition, OnGuardACTIVE’s ACC allows for fuel savings of up to 1%. The system’s benefits are underlined by a payback of 9 to 18 months, depending on the application.

**INNOVATIVE TECHNOLOGY – RELIABLE PERFORMANCE**
OnGuardACTIVE uses a long range, high precision forward-looking radar, detecting objects in the vehicle’s path at distances up to 650 feet away.

**FUEL SAVINGS**

- **UP TO 1%**

**HELPS IMPROVE ACCIDENT-RELATED UPTIME UP TO 19%**

**PAYBACK OF 9-18 MONTHS**

**HELPS REDUCE REAR-END COLLISION UP TO 87%**

**HELPS REDUCE REAR-END COLLISION COSTS UP TO 89%**

The dual beam radar uses far-range and near-range detection to expand the total area of radar coverage. This provides fast and accurate detection of vehicles far ahead while covering a wider angle to check adjacent freeway lanes, to allow drivers time to make an evasive maneuver if necessary.

OnGuardACTIVE’s 77 GHz radar provides fast data processing for accurate object recognition while maintaining its performance even in low visibility conditions. A further improved algorithm allows for outstanding accuracy in its response to stationary objects.

**DEDICATED DRIVER TRAINING**
To ensure a successful fleet roll-out of OnGuardACTIVE, WABCO supports fleets with tailored driver trainings, helping them better understand the system’s capabilities as well as its physical limits. WABCO’s experienced trainers are available to run driver trainings on-site as well as offer a broad range of driver training tools.

**AVAILABLE ACROSS MOST TRUCK BRANDS**
OnGuardACTIVE is available as an option on a wide variety of truck brands and vehicle platforms in the market. The system’s broad range of availability leverages multiple synergies in installation, maintenance and training.

**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. OnGuardACTIVE offers a multitude of safety and convenience benefits. The system helps prevent one of the most common causes of truck accidents while supporting a safe working environment and helping keep driver records clean.

OnGuardACTIVE’s ACC looks at the traffic ahead and automatically adapts the vehicle’s speed accordingly to help maintain a safe following distance. In this way, ACC releases truck drivers from constant deceleration and acceleration operations to make driving those long hours a safer and less stressful experience. In addition, OnGuardACTIVE’s improved response to stationary vehicles further supports driver acceptance.

**HASSLE-FREE MAINTENANCE**
A fascia protects the radar from damage and extensive snow and ice buildup, making the radar more robust. By applying engine brake and reducing engine torque to decelerate the vehicle, ACC decreases wear and tear on the foundation brakes. The continuous automatic radar alignment further reduces maintenance efforts. In addition, WABCO supports fleets through its skilled technical service team to ensure seamless operations.

**** As reported by fleets at WABCO’s Fleet Advisory Counsel, 2014
***** Analysis of Benefits and Costs of Forward Collision Warning Systems, FMCSA 2009
DESIGNED TO MEET YOUR NEEDS

OnGuardACTIVE 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 OnGuardACTIVE is available as an individual solution within WABCO’s extensive ADAS suite and can therefore be individually installed without requiring fleets to purchase further ADAS systems when these are not deemed necessary today. And with that, we are truly empowering tomorrow’s fleets.

For further product details contact your WABCO representative or the WABCO Customer Care Center at 855-228-3203.

**WABCO** (NYSE: WBC) is a leading global supplier of technologies and services that improve the safety, efficiency and connectivity of commercial vehicles. Originating from the Westinghouse Air Brake Company founded 150 years ago, WABCO continues to pioneer breakthrough innovations to enable autonomous driving in the commercial vehicle industry. Today, leading truck, bus and trailer brands worldwide rely on WABCO’s differentiating technologies, including advanced driver assistance, braking, steering and stability control systems. Powered by its vision for accident-free driving and greener transportation solutions, WABCO is also at the forefront of advanced fleet management systems that contribute to commercial fleet efficiency. In 2017, WABCO reported sales of $3.3 billion and has nearly 15,000 employees in 40 countries. For more information, visit:

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