

# TRAILER ROLL STABILITY SUPPORT

## RSS 1M



WABCO's two-sensor, one-modulator Roll Stability Support (RSS) 1M Trailer Safety System combines the benefits of antilock brake performance and trailer stability control in a single unit. Systems are available for OEM and retrofit installations.

According to NHTSA rollover studies conducted with the WABCO RSS, the presence of a WABCO RSS results in improved stability when no tractor stability control system is present. The RSS system is also effective when the companion tractor is equipped with a stability control system.<sup>1</sup>



**WABCO**

# TRAILER ROLL STABILITY SUPPORT RSS 1M

Derived from our proven RSS 2M system, the RSS 1M includes advanced features and technology to continuously monitor a trailer's risk of rollover. The system automatically accounts for the load status and calculates lateral acceleration while driving. In the event a potential rollover is detected, full brakes are applied, thereby reducing the likelihood of a rollover.

## ABOUT RSS 1M

- Two-sensor, one-modulator system
- From WABCO, the leader in safety and efficiency technologies for the commercial vehicle industry
- Mitigates or reduces likelihood of rollovers
- Antilock brake functionality
- Retrofittable
- Support for both spring and air suspension

**The NHTSA cost estimate for a rollover is \$1.4 million in the event of a fatality, \$462,000 in the event of an injury, and \$197,000 if there is property damage only.<sup>2</sup>**

## ROLL STABILITY FUNCTIONALITY

- Continuously monitors load status and lateral acceleration for optimized performance
- Brake pressure applied as needed to maintain stability control and mitigate potential for rollovers
- Targeted toward:
  - Vans, reefer units and flatbeds
  - Fleets that want stability control protection, but are still in the process of rolling out stability control on their tractors
  - Carriers that want to protect the loads in the trailer regardless of the tractor being used
- Features and benefits include:
  - Antilock brake performance
  - Integrated control and supply port screens for consistent optimal performance
  - Tank mountable ECU/valve assembly
  - Generic input/output (I/O) capabilities
    - Optional lift axle control
    - Optional tag axle control
    - Telematic broadcasting capabilities

<sup>1</sup> DOT HS 811 467, Tractor Semi-Trailer Stability Objective Performance Test Research – Roll Stability

<sup>2</sup> FMCSA-RRT-09-020, Analysis of Benefits and Costs of Roll Stability Control Systems for the Trucking Industry

**For further product details contact your distributor 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. Founded nearly 150 years ago as the “Westinghouse Air Brake Company,” WABCO continues to pioneer breakthrough innovations for advanced driver assistance, braking, stability control, suspension, transmission automation and aerodynamics. WABCO reported sales of \$3.3 billion in 2017 and has 15,000 employees in 40 countries. For more information, visit:

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