WABCO (NYSE: WBC) is a leading innovator and global supplier of technologies that improve the safety and efficiency of commercial vehicles. Founded nearly 150 years ago, WABCO continues to pioneer breakthrough products and systems for braking, stability, suspension, transmission automation, and aerodynamics. Today, all of the world’s leading truck, bus and trailer manufacturers have WABCO technologies onboard. In addition, WABCO provides the industry with advanced fleet management solutions and aftermarket services. WABCO reported sales of $2.9 billion in 2014. The company is headquartered in Brussels, Belgium, and has 11,000 employees worldwide. For more information, visit: www.wabco-auto.com

ELECTRONIC BRAKING SYSTEM FOR TRAILERS

TRAILER EBS-E

EBS / ABS Relay Valve

- (12V)

Number of GIO-plug-ports

GIO 1-4 GIO 1-7 GIO 1-7

Number of GIO Power Amplifier

4 10 10

Rollover Stability Support

  

Lift Axle Control Valve

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Integrated Speed Switch 1 (e.g. Return-to-Ride Function)

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Integrated Speed Switch 2 (e.g. Steering Axle Function)

  

5V CAN  (Telematics, SmartBoard, OptiTire)

1 2 2

Mechanical Suspension

- - -

Number of Available Functions of the Intelligent Trailer Program

19 41 42

For a lifetime of trailer reliability and safety

As one of the leading global manufacturers of electronic braking systems for trailers, WABCO has sold over 1.5 million Trailer EBS worldwide. With Trailer EBS-E, manufacturers can be assured of the latest innovation in trailer braking technology. From its reliability on a full range of trailer types, including semi-trailers, drawbar trailers, combined vehicles, even long units, speed governors, speed sensors, and electronic weight reporting.

A highly intelligent trailer program

TRailer EBS-E offers a superb source of trailer intelligence, supporting more than 40 optional functions to improve operating safety and efficiency. With EBS-E, the braking system has evolved into an advanced control center that processes real-time data and wirelessly communicates to become an advanced control center. It processes a rich flow of data to support WABCO’s Intelligent Trailer Program functions, while feeding the Vehicle Data Analysis program.

World of Difference

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TRAILER EBS-E

IT'S YOUR CHOICE

To support the diverse requirements of trailer customers, WABCO Trailer EBS-E is available as three variants: Standard, Premium and MultiVoltage.
WABCO's latest generation of Electronic Braking System for trailers, WABCO T railer EBS-E, now offers trailer manufacturers an even more streamlined, optimized solution. The Step 2 innovation greatly simplifies the installation process with simple plug-in pneumatic connections. This makes for uncomplicated installation and easier handling on the road.

**Faster Response Time**

Bigger benefits are realizable through the increased braking response time of EBS-E. S-BA/7OIG control units are fitted with an internal, electronic surge suppression mechanism. This means that when the trailer brakes are applied, the energy in the system is only temporarily interrupted (potentially) through a single time.

**More GIO’s Offer More Functionality**

Thanks to T railer EBS-E, WABCO Pneumatic Control Units offer several additional advantages: Anti-lock Braking Systems (ABS), MultiVoltage, 7-pin connectors, and EBS Relay Valve. Full function integration. Outputs (GIO) are only transmitted pneumatically through a single line.

**Easier Installation, Increased Performance and More Time on the Road**

EBS-E provides several additional advantages:

- Full function integration. Outputs (GIO) are only transmitted pneumatically through a single line.
- 7-pin connectors: 32 GIO’s offer increased functionality.
- MultiVoltage: no converters necessary.
- 7-pin connectors: 32 GIO’s offer increased functionality.
- EBS Relay Valve: the braking system’s components can be connected to the trailer brakes, air suspension and lift axle control auxiliary circuits.
- The T railer EBS-E modulator and PEM can automatically apply the trailer brakes to prevent it from rolling down steep inclines.
- A BETTER SOLUTION FOR LONGER VEHICLES

A Pressure Protection valve fitted to the EBS signal bus interface ensures that no accidental over-pressurization occurs. The T railer EBS-E includes an Overload Protection Valve and a Lift-and-Lower Valve.

**Multivoltage and Electrical Connections**

With EBS E, the braking response time is faster than ABS. This offers manufacturers the ability to install trailers even faster and easier. MultiVoltage makes life easier on the road by allowing the truck-to-trailer connection up to the Lift Axle Valve, EBS Relay Valve and the Lift-and-Lower Valve.

**Simplified System Integration**

EBS E is compatible with EuroCombi and Rollover Stability Support (RSS). From one single electronic control unit, T railer EBS-E supports – and easily connects – mechanical suspension, conventional air suspension, and integrated electronically controlled air suspension with full OptiLevel™ functionality.

**System Diagnostics**

Thanks to a Controller Area Network (CAN) electronic signals process with simple, plug in pneumatic lines. Information directly from the ECU, which makes for uncomplicated installation.

**EBS E** is designed and manufactured to withstand the harsh demands of daily trailer operation while making the task of diagnosing the system is not only quicker to install but is also much neater. The system is not only quicker to install but is also much neater.