

MODULAR DOOR CONTROL

INTELLIGENT DOOR CONTROL
FOR BUSES AND COACHES



WABCO

NEXT GENERATION FLEXIBILITY, EFFICIENCY AND SAFETY

MODULAR INTELLIGENCE

WABCO Modular Door Control Systems conduct over two-hundred million operations a day on city-buses and coaches around the world. In a business of increasingly customized requirements, WABCO's new generation of intelligent door control is flexible enough to handle virtually all mass transit niches. Whether working individually or collaborating with a multiplex, WABCO's control systems are the benchmark for powered doors in an industry that does not stand still.

New safety regulations are transforming the layout and operation of coaches and city-buses. WABCO is ready to accommodate these new demands with its latest generation of flexible technology. WABCO's latest modular systems meet the current requirements and have been designed with the flexibility to anticipate future legislation. They deliver simple, safe and economical control of bus and coach doors.

VALUE TO YOU

This latest generation of WABCO modular door control monitors and operates up to eight doors per vehicle. The intelligence and flexibility of the system allows it to operate and integrate networks of doors from different suppliers and of different types including doors powered electrically or pneumatically. WABCO Modular Door Control is compatible with hybrid door technology. It will support complex combinations of inward or outward swinging units, sliding hinged doors and arrangements with and without lifting locks. A single Electronic Control Unit (ECU) is now able to control up to two pneumatic doors reducing the overall part count and generating significant cost savings.

WABCO's electronically managed door control systems can be tailored to large or small fleets. Using WABCO technology, ease of operation is matched by simplicity of setup. Configuring the control software is a straightforward process and is easily integrated into a coach or bus-builders production line.

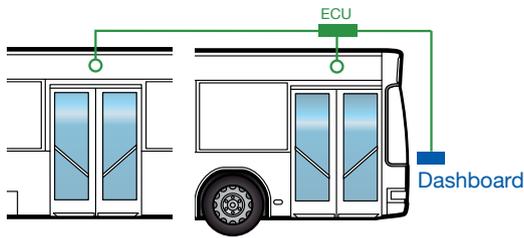
THE RIGHT SYSTEM FOR BOTH CITY-BUS AND COACH

WABCO's intelligent door control is a modular system customizable to any niche or high-volume application.

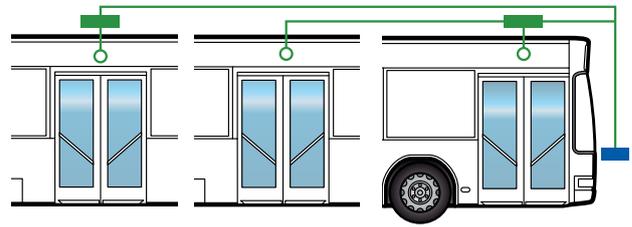


MODULAR DOOR CONTROL SYSTEM

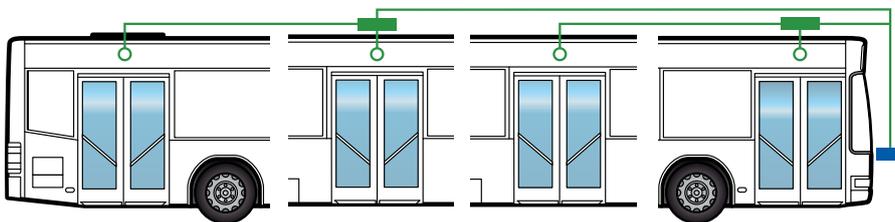
TWO DOORS



THREE DOORS



FOUR DOORS



Number of electronic control units (ECU) per vehicle can be reduced by up to 50%

ONE DOOR CLOSES...

WABCO modular door controls are connected using standard CAN architecture. To further enhance economy, they are compatible with other elements from WABCO's portfolio – interacting, for example, with WABCO control systems for Heating, Ventilation and Air Conditioning (HVAC) or Electronically Controlled Air Suspension (ECAS). Meanwhile, patented single valve technology integrates unique door, innovative and patented emergency and blocking valve functions within a single unit. This reduces the number of parts and space required, improving reliability and simplifying installation.

...ANOTHER ONE OPENS

Fully compliant with legal requirements (ECE-R 107), WABCO modular door control features proven cylinder technology, squeeze protection and management of emergency opening, designed to operate doors in a controlled manner when evacuating the vehicle. In addition, a new emergency cock design, installed via simple push-to-connect fittings has been designed for both internal and external use. In normal operation the cock safely locks the doors when the vehicle is in motion. During emergency situations it allows simple, intuitive operation by passengers when the vehicle is at a standstill.

EMERGENCY COCK



ELECTRONIC CONTROL UNIT



DOOR CONTROL VALVE



ON THE ROAD, NOT IN THE WORKSHOP

Modular Door Control System allows door calibration in a matter of minutes by using existing instruments. Also, thanks to flashable software updates, door replacement is a simple procedure.

Every WABCO component of the Modular Door Control System concept is designed to operate maintenance-free throughout its lifetime, while WABCO's standard diagnostic software, gives an overview of system performance at the push of a button. Taken all together these factors ensure Modular Door Control Systems from WABCO minimizes downtime, reduces costs and provides peace of mind.

QUALITY ASSURED

Every WABCO part is made of high-grade materials and is rigorously tested by WABCO before leaving its hands. Each is a product of WABCO's 150 year history of innovation and design excellence. The quality of every WABCO part is reinforced by a powerful global customer service network.

WABCO

WABCO (NYSE: WBC) is a leading global supplier of technologies and control systems for the safety and efficiency of commercial vehicles. Founded nearly 150 years ago, WABCO continues to pioneer breakthrough electronic, mechanical and mechatronic technologies for braking, stability and transmission automation systems supplied to the world's leading commercial truck, bus and trailer manufacturers. With sales of \$2.5 billion in 2012, WABCO is headquartered in Brussels, Belgium. For more information, visit

www.wabco-auto.com

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