

Delivering performance proven solutions for buses



Vapor CLASS[®] Ultra

Contact-Less Acoustic Sensing System

Next generation ultrasonic sensing technology optimizes exit door operation and increases passenger protection

- Reduces dwell time recognizes stream of exiting passengers, holds doors open and eliminates delays
- Reduces maintenance expenses solid-state CLASS sensors replace mechanical push buttons, tape switches, touch bars and light beams
- Ultrasound sensor system safe, inaudible and invisible sensors minimize passenger contact with doors
- Reliable performance solid-state signal processing limits false activations

Uniquely intelligent, multi-functional and reliable



Allows passengers to exit without contact with the doors

Adaptive threshold sensing optimizes system sensitivity and reliability

Auto-learn target acquisition eliminates manual entry of fixed targets

Detachable coaxial door sensor cables for easy install and replacement

Robust components resist dirt, humidity, temperature extremes and vandalism

Diverse applications for new vehicles and retrofit installations





	Transient Voltage Spikes (1 msec. max. duration): +/- 250VDC Total System Power Consumption: 30W max
Sensors:	Operating Frequency: 40 kHz to 125 kHz Robust coaxial cable, easy to install or replace Panel sensors equipped with replaceable cables
Computer Interface/Diagnostics:	USB
Vehicle Interface:	J1939
Temperature Range:	-4° F to 140° F (-20° C to +60° C)

The Next Generation CLASS® ULTRA

SYSTEM COMPARISON	CLASS	CLASS ULTRA
Minimizes Passenger Contact	1	\checkmark
Door Open Activation Device	V	\checkmark
Reduces Dwell Time	√	V
Improved Sensing Algorithms		\checkmark
Auto Learn for Simple Set Up		\checkmark
Coaxial Sensor Cables		V
USB for Diagnostics		\checkmark
J1939 Communication		\checkmark

For more information, contact your local Wabtec Bus Solutions representative.

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