



Delivering  
performance  
proven solutions  
for buses



# ETO

## Electric Transit Bus Door Actuator



### Optimal door operation and control

The Vapor Electric Actuator integrates innovative electrical and mechanical elements to precisely open and close passenger doors while minimizing power consumption. A powerful smart controller provides total motion control and extensive data logging capacity.

High-efficiency electric actuation with service-proven components for maximum performance and reliability



- Compact and lightweight with easy installation and adjustments
- Combines electric drive with proven mechanical components
- Eliminates need for compressed air and related piping, fittings and valves
- Superior door edge sealing design
- Worldwide service and support



- + Precise door speed and cushion control
- + Faster response to door commands
- + Non-backdrivable mechanism secures and maintains door panel position without power consumption
- + Provides positive mechanical door synchronization and greater system reliability
- + Obstruction sensing on both open and close cycles
- + Programmable data logging with detailed time stamps for superior diagnostic capabilities and maintenance alerts
- + Intuitive user interface

Ready to Show



Ready to Quote



Ready to Produce



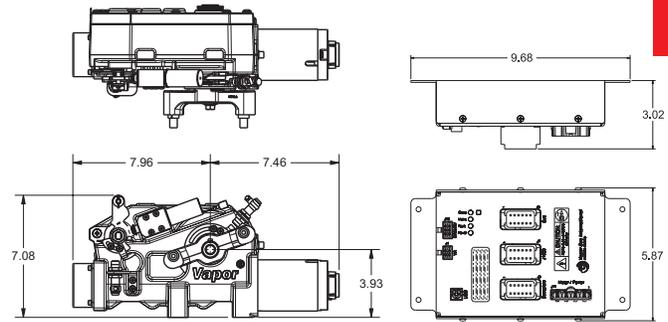
In Production



- Exceeds all North American requirements
- For transit and shuttle buses and autonomous vehicles

## Vapor Electric Door Actuator

- Applicable to Slide-Glide (in-swing), Parallelogram Plug (out-swing), and Swing door geometries with same footprint as Vapor Pneumatic Differential Engine
- Readily integrated into existing Vapor transit bus door system applications
- Advantages of electric operation while maintaining commonality of door function and major door system components
- Optional wireless access to data and control parameters



## Specifications

### Operating Voltage:

12 – 24 VDC nominal

### Operating Current:

10A nominal; 30A max.

### Dimensions

#### Actuator:

7.08" x 15.42" x 7.12" (17.98 x 39.16 x 18.08 cm)

#### Controller:

9.68" x 5.87" x 3.02" (24.58 x 14.9 x 7.67 cm)

### Door Opening/Closing Times:

Software adjustable, satisfies APTA standards

### Diagnostic Interface:

USB

### Communication Interface:

J1939

### Controller Interface:

12-pin Deutsch connector

### Operating Temperature:

-40° to 145° F (-40° to 63° C)

### Design Life:

1,000,000 cycles; 600,000 miles; 12 years

### Emergency Release Mechanisms

#### Cable Version:

Compressed air not needed  
 Common for exit door applications  
 Auto reset function via 5-position door controller

#### Pneumatic Version:

Common for entrance door applications  
 Seamless operation – maintains driver's existing operating procedure  
 External emergency release available

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

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**Intelligent  
 Door  
 Controller**

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