



Automatic Interior Door Systems Specifications



Operation:	Electric or Electro-Pneumatic
Control:	Electronic Control Unit (ECU)
Input Voltage:	24, 36, 48 and 110 Vdc
Power Consumption:	Electric 12 W / Pneumatic
Opening Time:	Adjustable 2.0 sec. to 60 sec.
Closing Time:	Adjustable 3.0 sec. to 60 sec.
Clear Opening:	800 mm (Width) 1900 mm (Height)

Construction

The door operator complete with ECU is supplied fully assembled and factory tested ready for installation above the doorway.

Actuation:	High quality electric motor or pneumatic actuator
Mechanism	Dual actuator or single actuator and drive belt system
Guidance	Upper "C" track and roller system with floor mounted rail to support and guide the door panels
Locking:	Mechanical Out-of-Service Lock
ECU:	Multi-Layer PCB mounted in metal housing complete with multi-pin connectors
Obstacle Detection:	Active Infrared Sensors
Passenger Operation:	Touch-Sensitive Illuminated Pushbuttons
Interlocks:	Switches for Closed and Open Indication

Product Background

The automatic interior sliding door system is designed for use in mainline inter-city rail vehicles for locating between the end of the seating area of each coach and the vestibule, in order to prevent draughts and noise from reaching the passenger compartment. The design provides the following functions:

- Single or double panel operation
- Obstacle detection
- Out of Service Lock
- Passenger Open Pushbuttons
- Fault Diagnostics
- Communications Link with TMS
- Fire Barrier to F15 or F30

The door system is supplied complete with the door panel assemblies and portal seals.

The door panels consist of painted Aluminum or brushed Stainless Steel with framework designed to meet the most stringent strength requirements. Also, the design has been focusing on achieving the maximum glazing area possible.

The panels are glazed using standard safety glass or fire resistant safety glass to suit the application. The door panel and door portal seals can be fire retardant rubber profiles or intumescent seals to suit the application.

Tested To

Shock and Vibration	RIA 20
Climate Conditions	RIA 13
EMC	RIA 18
Cycling Endurance	2 million operations

Projects Used On

Amtrack ACELA	240 systems
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Typical Automatic Interior Door Systems



United States

DOORspec Solutions Inc.
290 Margaret Street.
Plattsburgh, NY
12901
Tel: 518 324-7177
Fax: 518 324-4490

Canada

Solutions DOORspec Inc.
1225, Industrielle
La Prairie, Qc.
J5R 2E4
Tel: 450 444-6994
Fax: 450 444-9347

Web Site

www.door-spec.com

E-Mail Address

Info@door-spec.com