



Leadscrew Type Side Door Operator



Specifications

Operation:	Electric Motor Drive
Control:	Electronic Control Unit (ECU)
Input Voltage:	24, 36, 48 and 110 Vdc
Power Consumption:	60 W (Run) / 220 W (Peak)
Opening Time:	Adjustable from 2.0 sec. and up
Closing Time:	Adjustable from 3.0 sec. and up
Clear Opening:	Up to 1500 mm (Width)
System Weight:	30 to 40 Kg

Product Background

The leadscrew type electric operator for side passenger doors is specifically designed for use in rapid operation, high passenger density environments such as mass transit metro vehicles. The door operating mechanism is suited to mount above the doorway opening and DOORspec can tailor the layout of the operator to adapt to any vehicle cantrail layout. The system can be tailored to drive either a pocket or an external sliding door arrangement.

The door operating mechanism makes use of an electric drive motor connected to a “lubrication free” double helix leadscrew that drives both door panels through left and right hand screw nuts. A door locking system, activated by the door movement and released by an ECU controlled solenoid, is an integral part of the operator.

The design provides the following features:

- Single or double panel operation
- Obstacle detection
- Internal and external Emergency release
- Crew access switches
- Fault Diagnostics
- Communications Link with TMS
- Audible and visual door close warning
- Monitoring and diagnostics on PC

Construction

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

Drive Motor:	“Step free” permanent magnet with position encoder
Microprocessor:	Multi-Layer PCB of the latest surface mounting Technology
Guidance	Hard anodized Upper “C” track and molded polyurethane roller system.
Drive System:	Lubrication free LeadScrew System
Locking System:	Activated by Door Movement and Released by Solenoid
Obstacle Detection:	Encoder counts and ECU Current Monitoring system
Wiring:	Low smoke, low halogen cable for all wiring within the door operator
Interlocks:	Switches for Closed and Locked Indication

Tested To

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

Typical Leadscrew Side Door Operator Systems



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