



Tormax iMotion® TN 110 In-Floor Swing Door Operator

In-Floor Application

Unit Features

- ∞ Concealed, In-Floor, Self-Contained Operator - Meets Guidelines for Preserving Historic Buildings, No Visible Header
- ∞ Dual Purpose Operator- Meets or Exceeds ANSI Standards A156.10 and A156.19
- ∞ Non-Handed Electro-Mechanical Operator - Reduces on Hand Inventory
- ∞ Operator Provides High Performance, Lower Door Bearing - No External Door Bearing Required
- ∞ Two Part Serrated Output Shaft - Provides Application Flexibility and Ease of Service
- ∞ Protective Class NEMA 6 - Allows 7 Days Water to Upper Edge of Housing
- ∞ Power Open Spring Close - Functions as a Manual Door Closer With Loss of Power
- ∞ Heavy Duty Transmission Coupled With the Self-Learning iMotion® Microprocessor Control - Provides the Ultimate in Automatic and Manual Door Control (no leaking oil)
- ∞ AC Synchronous 1/3 HP Motor With Built-In Motor Protection Circuit - Wear Free Drive Principle
- ∞ Smooth and Silent Operation (less than 70 DB) - Unlimited Application Opportunities
- ∞ Adjustable Closing Spring Force - Allows Doors to be Fine-Tuned to the Environment
- ∞ Rated for Interior and Exterior Doors - Maximum 1000 Lbs. (454 KG)
- ∞ Factory Assembled, Tested and Shipped as a Complete Unit
- ∞ Models Available to Automate Single, Simultaneous Pair and Double Egress Applications
- ∞ For Use With Outswing Butt Hung, Offset and Center Pivot Doors.
- ∞ No Visible Linkage - Drive Arms Available for Butt Hung, Offset Pivot and Center Pivoted Doors With and Without Breakaway
- ∞ Inswing and Outswing Door Opening Angle - Adjustable (0-100 degrees)
- ∞ Internal Adjustable Operator End Stop in Opening Direction - No External Door Stop Required
- ∞ Internal Adjustable Operator End Stop in Closing Direction - No External Door Stop Required
- ∞ Illuminated Seven-Segmented Function Control Panel - Provides for Six Operating Modes, System Configuration and Auto-Diagnostics
- ∞ Surface Floor Box With Satin Stainless Steel Cover - Thresholds up to ½" (13) Thick
- ∞ Flush Mounted Box With Pan Type Cover - Floor Coverings up to ¾" (19) Thick
- ∞ Controller is Separate From Operator - Provides for Optimal Mounting Location
- ∞ Electronic Components are Contained within a NEMA 12 Enclosure - Dust-Tight and Drip-Tight – Indoor Use
- ∞ Universal iMotion® Microprocessor Controller - One Common Controller for All iMotion® Drives
- ∞ Programmable iMotion® Microprocessor Controller - Provides Flexibility During System Configuration, No Special Tools Required

- ∞ Electronic Reversing for Door Obstruction in the Opening Direction - Door Will Stop and Reverse Close
- ∞ Electronic Reversing for Door Obstruction in the Closing Direction - Door Will Stop and Reverse Open
- ∞ Reversing Sensitivity Adjustment - Programmable
- ∞ Motor Power Boost Close - Programmable
- ∞ Motor Hold Close - Programmable
- ∞ Power Open and Hold - Programmable (smoke evacuation doors)
- ∞ Selectable (on/off) "Push and Pull" Activation - Programmable
- ∞ Door Movement Sensitivity for "Push and Pull" Activation - Programmable
- ∞ "Teach-In" Self-Learning Door Commissioning Program - Establish Door Opening and Closing Movements Without the Use of Cams and Switches
- ∞ No Mechanical Switches and/or Cams Required for Door Position - Eliminates Costly Service and Down Time
- ∞ System Provides for Two Independent Types of Door Movement Sequences - Optimal Door Behavior for Different Users
- ∞ Fine-Tune Door Motion Elements (door opening and closing speeds, opening angle and hold open time) Independently after "Teach-In" - Programmable
- ∞ Adjustable Latch Check Positioning - Programmable
- ∞ Adjustable Latch Check Speed - Programmable
- ∞ Adjustable Opening Force Limitation - Programmable
- ∞ Adjustable Opening and Closing Speed Limitation - Programmable
- ∞ Adjustable Opening and Closing Speeds - Programmable
- ∞ Adjustable Opening Angle - Programmable
- ∞ Adjustable Hold Open Time for Door Activator - Programmable
- ∞ Adjustable Hold Open Time for "Push and Pull" Activation - Programmable
- ∞ Sequential Operation (push to open/push to close) - Programmable
- ∞ Integrated Access Code to Inhibit Unauthorized Door Adjustments - Programmable
- ∞ On-Board Power Supply Output With Overload Protection (24VDC .75A max.) as Standard for Sensors and Activators - No Auxiliary Transformer Required
- ∞ On-Board Lock Output Power Supply (24VDC 1A max.) for Electric Strike (fail-safe or fail-secure) as Standard With (.2-4S) Delay - Programmable
- ∞ On-Board Output Power Supply (24VDC 1A max.) for Magnetic Lock as Standard - Programmable
- ∞ Two On-Board Outputs (24VDC) for Door Position Status, Alarm, etc. - Programmable
- ∞ On-Board Input for Key Switch - Remains Enabled in Off Mode for Access Control Integration
- ∞ Four On-Board Inputs for Safety - Programmable
- ∞ Self-Configuring Swing Side Door Mounted Safety Sensors - No Cut Off Switch or Manual Adjustment Required
- ∞ Four On-Board Inputs for Activators, Mode of Operation, Key Switch - Programmable
- ∞ Optional I/O Module - Provides for Four Additional Inputs and Four Additional Outputs
- ∞ Factory Reset - Programmable
- ∞ Built-In Safety Circuit With Stall Logic - No Auxiliary Modules Required
- ∞ Global Power Supply - Selectable 115-230VAC 50-60 HZ, Single Phase
- ∞ Optional Accessories Available - Door Sequencing, Interlocking and Battery Back-up Modules
- ∞ Full Range of Operate Sensors, Manual Controls, Door Mounted Safety Sensors and Overhead Mounted Presence Sensors - ANSI Compliant

- ∞ Power Consumption - Max 250 Watts
- ∞ ANSI/UL 325 Listed - United States and Canada