



Tormax TTX 1102 Low Energy Swing Door Operator – Side Load Design

Unit Features

- Low Energy Swing Door Operator - Meets or Exceeds ANSI Standard A156.19
- UL Listed for Smoke and Fire Door Applications - United States and Canada
- Non-Handed Electro-Mechanical Operator - Reduces on Hand Inventory
- Standard Integrated Functionality - Low Energy, Push & Pull and Power-Assist
- Power Open Spring Close - Functions as a Manual Door Closer With Loss of Power
- Transmission Consists of a Forged Rack and Pinion Compression Spring Assembly With a Re-Circulating Ball Screw - Eliminates Free-Wheeling of the Operator in Windy Environments (no gears to wear or leaking oil)
- Fractional 1/4+ HP DC Motor w/Built-In Motor Protection Circuit - Interrupts Current to Motor if Door is Blocked During the Opening Cycle
- Rubber Isolation Pads - Provides for Smooth and Silent Operation (less than 70 DB)
- Unique Conical/Hexagonal Shaped Stainless Steel Output Shaft - Eliminates Door Arm Slippage
- Rated for Interior and Exterior Doors up to 48" Wide x 275 Lbs. (1219 x 125 KG)
- Factory Assembled, Tested and Shipped as a Complete Unit
- Models Available to Automate Single, Simultaneous Pair and Double Egress Applications
- Outswing Door Arm - For Use w/ Butt Hung, Offset and Center Pivot Doors
- Telescoping Outswing Door Arm Will Accommodate Door Reveal Ranging From 0"-9 7/8" (0 - 251)
- Inswing Door Arm and Slide Track - For Use w/Butt Hung, Offset Pivot Doors (0") Reveal
- Optional Deep Reveal Inswing Door Arm and Slide Track - Center Pivot or Double Egress Doors, 0"-6" (0-152) Reveal
- Lintel Mounted Back Plate Design - Factory Prepared for Fast and Easy Installation
- Side Load Design (SL) - For Convenient Operator Access
- Durable Steel End Plates - For Structural Integrity
- Compact Visible Side Load Design - Header Profile 4 9/16" H x 5" W x 31 1/2" L (116 H x 127 W x 800 L)
- Optional Full Door Width Header Profile - Provides Uniform Sightlines
- Optional Low Profile Slim Line Cover w/Finished Aluminum Back Plate - Cover and Aluminum Back Plate Profile 3-3/8" H x 5 3/16 W x Width of Door Frame (86 H x 132 W)
- Full Door Width Low Profile Slim Line Cover - Provides Uniform Sightlines
- Finished Aluminum Mounting Plate for Overhead Transparent Applications

- Outswing Door Opening Angle - Adjustable (0-110 degrees)
- Inswing Door Opening Angle - Adjustable (0-110 degrees); Deep Reveal Arm Maximum (90 degrees)
- Internal Adjustable Full Open End Stop - No External Door Stop Required
- Three Operating Modes (On/Off/Hold Open) - Pre-wired Switch as Standard w/Each Unit
- Self-Learning Microprocessor Controller w/On-Board Digital Programming – Provides Flexibility During System Configuration
- 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
- Power-Assist Functionality- Programmable Motor Provides Assistance With Manual Door Opening
- Selectable (on/off) Push and Pull Activation – Programmable
- Manual Door Movement Required for Push and Pull Activation – Programmable
- Teach-In” Self-Learning Door Commissioning Program - Establishes Door Opening and Closing Speed, Opening Angle and Hold Open Time Without the Use of Cams and Switches
- No Mechanical Switches and/or Cams Required for Door Position - Eliminates Costly Service and Down Time
- Independently Fine-Tune Door Motion Elements (door opening and closing speeds, opening angle and hold Open time 0-60s) Post “Teach-In” – Programmable
- Function Control Panel – Provides for System Configuration and Auto-Diagnostics
- Motor Power Boost Close – Ensures Doors Close in Harsh and Windy Environments
- Motor Hold Close – Assists in Holding Doors Closed in Unbalanced Buildings
- Latch Boost Assist - Eliminates Potential Binding of Electric Strike
- Power Open and Hold – Provides for Smoke Evacuation Application - Programmable
- Integrated Access Code - Inhibits Unauthorized Door Adjustments
- Adjustable Opening Force Limitation – Programmable
- Adjustable Opening and Closing Speeds – Programmable
- Adjustable Latch Check Speed - Programmable
- Adjustable Opening Angle – Programmable
- Adjustable Hold Open Time for Door Activator (0-60s)– Programmable
- Sequential Operation (Push to Open/Push to Close Operation) – Programmable
- On-Board Power Supply Output w/ Overload Protection (24VDC 1.5A Max.) as Standard for Activation, Electric Strikes, Magnetic Locks and Safety Sensors - No Auxiliary Transformer Required
- One On-Board Output (24VDC) for Door Open or Door Closed Position Status – Programmable
- One On-Board Input for Door or Overhead Mounted Presence Sensor – Programmable

- Self-Configuring Swing Side Door Mounted Safety Sensors – No Cut Off Switch or Manual Adjustment Required
- One On-Board Input for Activators - As Standard
- Factory Reset – Programmable
- Built-In Safety Circuit With Stall/Carpet/Safety Slow/Reactivation – Programmable (No Auxiliary Modules Required)
- Standard Power Supply - 115VAC 60 HZ, Single Phase, 5 Amp Circuit
- TTX 1102 Operator is Modular in Design - Allows for Additional Functionality via EDM and PDM Modules
 - * Locking Sequence w/Activators - Exterior Door Module (EDM) Provides On-Board 24VDC Output @ 1AMP for Electric Strike or Magnetic Lock as Standard With (.2 – 4.0s) Delay or NO / NC Dry Output Contacts - Programmable
 - Provides On-Board Input for Key Switch - Remains Enabled in “Off” Mode for Access Control Integration
 - Provides One Activation Input as Standard
 - Provides Interface for Function Control Programmer and Skipper for FW Updates
 - * Power Door Module (PDM) - Provides Three Programmable Safety Inputs
- Optional Accessories Available - Door Sequencing, Interlocking and Battery Backup
- Available w/ a Full Range of Manual Controls, Door and Overhead Mounted Presence Sensors – ANSI Compliant
- Standard Architectural Class 1 Anodized Finishes Clear and Dark Bronze - Other Anodized Finishes, Painting and Metal Cladding Available Upon Request
- Power Consumption Max 200 Watts
- ANSI/UL 325, UL 10C/NFPA 252/ULC S104, & UL 228/ULC S133 Listed - United States and Canada