



APT

Low-Profile Apartment House Trolley Operator



Model APT is a low-profile apartment house operator that features a resilient-mount motor, low-profile design, industrial ball bearings on the output shaft, quiet-gliding rail spacers, auto-reconnect trolley assembly with nylon inserts and a standard solenoid brake.

LOGIC 4.0 TECHNOLOGY (L4)

Added Value

- Built-in 3-channel, 315MHz radio receiver accepts up to 23 Security+® or unlimited DIP switch remotes. 3-button remotes can be programmed for OPEN/CLOSE/STOP operation
- Maintenance Alert System™ establishes a routine maintenance schedule based on the number of cycles or calendar date. Includes self-diagnostic system that allows you to troubleshoot up to eight different error codes
- Timer-to-Close allows programming in 1-sec or 15-sec increments and permits timed automatic door closure after the door reaches the full open position; requires monitored photo sensors, either CPS-RPEN4, CPS-U or CPS-UN4, or a 4-wire edge, using the CPS-EI edge interface
- Thermal motor overload can be easily reset from the 3-button floor level control station

Reliability & Programming Simplicity

- Switchless motor eliminates stuck start switch and motor malfunctions on single-phase operators
- All high-voltage connections have been removed from the board for safety and ease of service
- Diagnostic LEDs speed installation and troubleshooting
- Motor direction jumper lets you change motor direction by simply moving a jumper

Available Plug-in Options for Logic 4.0 (L4)

Auxiliary Contact: Used to operate security, warning, heating or other 5V to 240V devices. Features both normally open and closed contacts that actuate in conjunction with limit switches.

TLS1CARD: Provides seven field-selectable modifications, including six door traffic control options. Combines with Logic 4.0's standard Timer-to-Close feature to offer timed, sequenced activation of warning lights,

sounders, and other devices (sold separately) that can be operated via dry contact closure.

CPS3 or CPS3-N4 Option: Enables the addition of a second set of photo-eyes.

STANDARD FEATURES

Motor: Continuous-duty high-starting torque motor with instant reverse and overload protection. Available in 1/2 single phase capacitor start motors. Removable without affecting limit switch settings.

Drive Reduction: First-stage heavy-duty 4L V-belt; second and third stages #41 chain; output on trolley #48 chain.

Wiring Type: All operators are factory preset to C2 wiring providing momentary contact to open and stop, with constant contact to close; D1 and E2 wiring are also available. Momentary contact to close (B2 wiring), T, TS, and FSTS wiring can be activated with the use of CPS-U, CPS-UN4, or CPS-EI safety edge interface. The operator is pre-wired to accept a sensing device, photoelectric sensors, radio controls and most types of access control equipment.

Maximum Run Timer: Standard feature that protects against damage to the door and operator. Any time a closing door takes 10 seconds more than its programmed standard cycle time, the door will stop.

Programmable Mid-Stop: Allows the door to stop at mid-point during open travel.

Delay-on-Reverse Circuit: A one-second delay-on-reverse circuit to prevent premature door and operator wear.

Low-Profile Design: Low-profile design can be ceiling-mounted for low headroom applications.

External Radio Control Terminal: Quick, convenient connections for retrofitting or adding radio controls on logic or mechanical operators.

Bearings: Industrial ball bearings on the output shaft; heavy-duty, oil-filled on reduction shafts.

Friction Clutch: Adjustable, helps protect against major damage to door and operator should the door meet an obstruction.

Construction: NEMA 1 type electrical box, heavy-duty 11-gauge steel frame with durable powdercoat finish, all reduction sprockets drilled and pinned to shafts.

Push Button Station: 3-button station comes standard and has OPEN/CLOSE/STOP functionality.

Rail Assembly: High-strength dual L-rail track and quick-mount header

bracket which provides fast, swing-up installation.

Warranty: 2-year warranty.

CONTROL ACCESSORIES

Primary Monitored Entrapment Protection: The presence of primary entrapment protection is required for all modes and features beyond basic constant-pressure-to-close performance. Primary entrapment protection devices are monitored continuously to insure safe operation of the door and limit door operator functionality should an obstruction be detected or in the event of device failure. LiftMaster Monitored Entrapment Protection devices, CPS-U, CPS-UN4 and CPS-EI, are designed to work in conjunction with LiftMaster commercial door operators to provide enhanced door safety and a broad range of modes and features to end users. Either monitored photo-sensor or monitored 4-wire sensing edge (in conjunction with the CPS-EI Edge Interface) protection may be selected, but one must be detected by the LiftMaster Logic 4.0 or Medium-Duty Logic circuit board in order to unlock full functionality.

Ancillary Entrapment Protection: (optional) LiftMaster Retro-Reflective Commercial Protector System® photo sensors, 2-wire non-monitored sensing edges and pneumatic sensing edges are considered secondary entrapment protection and may be used to supplement primary entrapment protection or basic constant-pressure-to-close.



GT

Heavy Industrial-Duty Trolley Operator



Applications:

Model GT is a heavy industrial-duty trolley operator for standard lift sectional doors. It features a continuous-duty high-starting torque motor, quiet-gliding rail spacers, a quick-mount swivel header bracket and a removable hinged electrical box cover.

LOGIC 4.0 TECHNOLOGY (L4)

Added Value

- Built-in 3-channel, 315MHz radio receiver accepts up to 23 Security+® or unlimited DIP switch remotes. 3-button remotes can be programmed for OPEN/CLOSE/STOP operation
- Maintenance Alert System™ establishes a routine maintenance schedule based on the number of cycles or calendar date. Includes self-diagnostic system that allows you to troubleshoot up to eight different error codes
- Timer-to-Close allows programming in 1-sec or 15-sec increments and permits timed automatic door closure after the door reaches the full open position; requires monitored photo sensors, either CPS-RPEN4, CPS-U, CPS-UN4, or a 4-wire edge, using the CPS-EI edge interface
- Thermal motor overload can be easily reset from the 3-button floor level control station

Reliability & Programming Simplicity

- Switchless motor eliminates stuck start switch and motor malfunctions on single-phase operators
- All high-voltage connections have been removed from the board for safety and ease of service
- Diagnostic LEDs speed installation and troubleshooting
- Motor direction jumper lets you change motor direction by simply moving a jumper

Available Plug-in Options for Logic 4.0 (L4)

Auxiliary Contact: Used to operate security, warning, heating or other 5V to 240V devices. Features both normally open and closed contacts that actuate in conjunction with limit switches.

TLS1CARD: Provides seven field-selectable modifications, including six door traffic control options. Combines with Logic 4.0's standard Timer-to-

Close feature to offer timed, sequenced activation of warning lights, sounders, and other devices (sold separately) that can be operated via dry contact closure.

CPS3 or CPS3-N4 Option: Enables the addition of a second set of photo-eyes.

Mechanical Reversing Contactor Circuit (M): (115V, 208/230V, 460V, 575V, 24V NEC Class 2 Circuit with 40VA transformer) Industrial linear contactor provides significantly longer control runs than conventional contactors.

STANDARD FEATURES

Motor: Continuous-duty high-starting torque motor with instant reverse and overload protection. Available in 1/2, 3/4, 1 and 1 1/2 HP; single- or three-phase. Removable without affecting limit switch settings.

Drive Reduction: 10:1 first stage using heavy-duty gears running in oil bath; cast iron housing; #41 chain second stage; #41 chain on trolley.

Emergency Disconnect: Spring-loaded for emergency manual operation.

Wiring Type: All operators are factory preset to C2 wiring providing momentary contact to open and stop, with constant contact to close; D1 and E2 wiring are also available. Momentary contact to close (B2 wiring), T, TS, and FSTS wiring can be activated with the use of CPS-RPEN4, CPS-U, CPS-UN4, or CPS-EI safety edge interface. The operator is pre-wired to accept a sensing device, photoelectric sensors, radio controls and most types of access control equipment.

External Radio Control Terminal: Quick, convenient connections for retrofitting or adding radio controls on logic or mechanical operators.

Bearings: Sealed roller bearings in gear reducer. Flange-mount industrial ball bearings on drive shaft.

Brake: Solenoid-actuated brake is standard.

Clutch: Heavy duty torque limiter helps protect against major damage to door and operator should the door meet an obstruction.

Construction: NEMA 1 type electrical box, heavy-duty 11-gauge steel frame with durable powdercoat finish, all reduction sprockets drilled and pinned to shafts.

Push Button Station: 3-button station comes standard and has OPEN/CLOSE/STOP functionality.

Quick-Mount Header Bracket: For fast, swing-up mounting.

Rail Assembly: High-strength dual L-rail track with nylon quiet-gliding

chain guides on rail spacers for quiet, smooth operation.

Warranty: 2-year warranty.

CONTROL ACCESSORIES

Primary Monitored Entrapment Protection: The presence of primary entrapment protection is required for all modes and features beyond basic constant-pressure-to-close performance. Primary entrapment protection devices are monitored continuously to insure safe operation of the door and limit door operator functionality should an obstruction be detected or in the event of device failure. LiftMaster Monitored Entrapment Protection devices, CPS-RPEN4, CPS-U, CPS-UN4 and CPS-EI, are designed to work in conjunction with LiftMaster commercial door operators to provide enhanced door safety and a broad range of modes and features to end users. Either monitored photo-sensor or monitored 4-wire sensing edge (in conjunction with the CPS-EI Edge Interface) protection may be selected, but one must be detected by the LiftMaster Logic 4.0 or Medium-Duty Logic circuit board in order to unlock full functionality.

Ancillary Entrapment Protection: (optional) LiftMaster Retro-Reflective Commercial Protector System® photo sensors, 2-wire non-monitored sensing edges and pneumatic sensing edges are considered secondary entrapment protection and may be used to supplement primary entrapment protection or basic constant-pressure-to-close.



T

Industrial-Duty Trolley Operator for Standard Lift Sectional Doors



Model T is an industrial-duty trolley operator for standard lift section doors. It features a low profile and industrial ball bearings on the output shaft.

LOGIC 4.0 TECHNOLOGY (L4)

Added Value

- Built-in 3-channel, 315MHz radio receiver accepts up to 23 Security+® or unlimited DIP switch remotes. 3-button remotes can be programmed for OPEN/CLOSE/STOP operation
- Maintenance Alert System™ establishes a routine maintenance schedule based on the number of cycles or calendar date. Includes self-diagnostic system that allows you to troubleshoot up to eight different error codes
- Timer-to-Close allows programming in 1-sec or 15-sec increments and permits timed automatic door closure after the door reaches the full open position; requires monitored photo sensors, either CPS-RPEN4, CPS-U, CPS-UN4, or a 4-wire edge, using the CPS-EI edge interface
- Thermal motor overload can be easily reset from the 3-button floor level control station

Reliability & Programming Simplicity

- Switchless motor eliminates stuck start switch and motor malfunctions on single-phase operators
- All high-voltage connections have been removed from the board for safety and ease of service
- Diagnostic LEDs speed installation and troubleshooting
- Motor direction jumper lets you change motor direction by simply moving a jumper

Available Plug-in Options for Logic 4.0 (L4)

Auxiliary Contact: Used to operate security, warning, heating or other 5V to 240V devices. Features both normally open and closed contacts that actuate in conjunction with limit switches.

TLS1CARD: Provides seven field-selectable modifications, including six door traffic control options. Combines with Logic 4.0's standard Timer-to-Close feature to offer timed, sequenced activation of warning lights, sounders, and other devices (sold separately) that can be operated via

dry contact closure.

CPS3 or CPS3-N4 Option: Enables the addition of a second set of photo-eyes.

Mechanical Reversing Contactor Circuit (M): (115V, 208/230V, 460V, 575V, 24V NEC Class 2 Circuit with 40VA transformer) Industrial linear contactor provides significantly longer control runs than conventional contactors.

STANDARD FEATURES

Motor: Continuous-duty high-starting torque motor with instant reverse and overload protection. Available in 1/3, 1/2, 3/4 and 1 HP; single- or three-phase. Removable without affecting limit switch settings.

Drive Reduction: First-stage heavy-duty 5L V-belt; second-stage #41 chain; output on trolley #48 chain on 1/3 and 1/2 HP; #41 chain on 3/4 and 1 HP.

Emergency Disconnect: Spring-loaded for emergency manual operation.

Wiring Type: All operators are factory preset to C2 wiring providing momentary contact to open and stop, with constant contact to close; D1 and E2 wiring are also available. Momentary contact to close (B2 wiring), T, TS, and FSTS wiring can be activated with the use of CPS-RPEN4, CPS-RPEN4, CPS-U, CPS-UN4, or CPS-EI safety edge interface. Operators are pre-wired to accept a sensing edge, photoelectric sensors, radio controls and most types of access control equipment.

External Radio Control Terminal: Quick, convenient connections for retrofitting or adding radio controls on logic or mechanical operators.

Bearings: Ball bearings on output shaft; heavy-duty, oil-filled bushings on reduction shafts.

Brake: Solenoid-actuated brake is standard on 3/4 and 1 HP units to prevent coasting of door. Optional on 1/3 and 1/2 HP units.

Friction Clutch: Adjustable, helps protect against major damage to door and operator should the door meet an obstruction.

Construction: NEMA 1 type electrical box, heavy-duty 11-gauge steel frame with durable powdercoat finish, all reduction sprockets drilled and pinned to shafts.

Push Button Station: 3-button station comes standard and has OPEN/CLOSE/STOP functionality.

Quick-Mount Header Bracket: For fast, swing-up mounting.

Rail Assembly: High-strength dual L-rail track with nylon quiet-gliding

chain guides on rail spacers for quiet, smooth operation.

Warranty: 2-year warranty.

CONTROL ACCESSORIES

Primary Monitored Entrapment Protection: The presence of primary entrapment protection is required for all modes and features beyond basic constant-pressure-to-close performance. Primary entrapment protection devices are monitored continuously to insure safe operation of the door and limit door operator functionality should an obstruction be detected or in the event of device failure. LiftMaster Monitored Entrapment Protection devices, CPS-RPEN4, CPS-U, CPS-UN4 and CPS-EI, are designed to work in conjunction with LiftMaster commercial door operators to provide enhanced door safety and a broad range of modes and features to end users. Either monitored photo-sensor or monitored 4-wire sensing edge (in conjunction with the CPS-EI Edge Interface) protection may be selected, but one must be detected by the LiftMaster Logic 4.0 or Medium-Duty Logic circuit board in order to unlock full functionality.

Ancillary Entrapment Protection: (optional) LiftMaster Retro-Reflective Commercial Protector System® photo sensors, 2-wire non-monitored sensing edges and pneumatic sensing edges are considered secondary entrapment protection and may be used to supplement primary entrapment protection or basic constant-pressure-to-close.



ATS

Advanced Trolley System Light-Duty Trolley Operator

Applications:

The Model ATS (Advanced Trolley System) door operator is for use on standard lift sectional doors up to 14' high, rated for 8 cycles per hour.

Standard Features:

- Automatic safety reverse/automatic door stop
- Manual release in case of power failure
- I-beam trolley trolley track
- The Protector System non-impact infrared safety device
- 1-button control station
- Standard with 14' rail
- High-torque, industrial 1/2 HP, 115V single-phase motor with instant reverse and automatic reset thermal overload
- 1-year warranty



MT

Medium Duty Trolley Operator for Standard Lift Sectional Doors

Overall Rating:



Model MT is a Medium-Duty Logic trolley operator for standard lift sectional doors. It features a high-starting torque motor, a compact design, quick-gliding rail spacers and a quick-mount swivel header bracket.

MEDIUM-DUTY LOGIC TECHNOLOGY

Added Value

- UL325-2010 compliant Medium-Duty Logic programmable integrated circuit board
- Built-in 3-channel, 315MHz radio receiver accepts up to 20 Chamberlain® Security+® or unlimited DIP switch remotes. 3-button remotes can be programmed for OPEN/CLOSE/STOP operation
- Programmable C2 or B2 wiring options (B2 requires CPS-RPEN4, CPS-U, CPS-UN4, or CPS-EI)
- Integrated Timer-to-Close (TTC) allows programming from 5 to 60 seconds in 5-second increments. Allows for timed automatic door closure after the door reaches the full open position (Requires monitored safety devices, with CPS-RPEN4, CPS-U, CPS-UN4, or CPS-EI)
- Integrated 90-second maximum run timer
- UL325-2010 Monitored Entrapment Capability
- Monitored protection against transient overvoltage conditions
- 3-button control station included

STANDARD FEATURES

Motor: Powerful 1/2 HP, single phase motor with instant reverse and internal automatic reset thermal overload. Removable without affecting limit switch settings.

Auxiliary Reversal System: Designed to protect the door and door operator from damage; if a closing door strikes an obstruction, the Auxiliary Reversal System will detect the slip of the clutch and reverse the door to the full open position. This system is not a substitute for a safety sensing device such as a photo cell or reversing edge.

Wiring Type: All operators are factory preset to C2 wiring providing momentary contact to open and stop, with constant contact to close.

Momentary contact to close (B2 wiring) can be easily set, but requires the presence of either CPS-U, CPS-UN4, or CPS-EI safety devices. The operator is pre-wired to accept a sensing device, photoelectric control, radio controls and most types of access control equipment.

Rail Assembly: High strength dual L-rail track with exclusive nylon quiet gliding chain guides on rail spacers for quiet, smooth operation. Includes quick-mount header bracket which provides fast, swing-up installation.

Operator/Motor Control: Solid-state Medium-Duty circuit board.

Control Circuit: 24V NEC Class 2.

Drive Reduction: First stage heavy-duty 4L V-belt; second and third stages #48 chain; output on trolley #48 chain.

Emergency Disconnect: Spring-loaded disconnect for emergency manual operation.

Push Button Station: 3-button station for OPEN/CLOSE/STOP functions is standard for all operators. Controls with 1, 2 and 3 buttons are available.

Construction: NEMA 1 type electrical box, heavy-duty 11-gauge steel frame with baked-on powder coat finish, all reduction sprockets drilled and pinned to shafts.

Bearings: Heavy-duty, oil filled bearings.

Radio Receiver: 315MHz radio receiver is integral to the Medium-Duty logic board. Accepts up to 20 Security+® remote controls and unlimited DIP switch remote controls.

Friction Clutch: Adjustable friction clutch helps protect against damage to the door and operator should the door meet an obstruction. Works in conjunction with the Auxiliary Reversal System.

Warranty: 2-year warranty.

CONTROL ACCESSORIES AND OPTIONS

Primary Monitored Entrapment Protection: The presence of primary entrapment protection is required for all modes and features beyond basic constant-pressure-to-close performance. Primary entrapment protection devices are monitored continuously to insure safe operation of the door and limit door operator functionality should an obstruction be detected or in the event of device failure. LiftMaster Monitored Entrapment Protection devices, CPS-RPEN4, CPS-U, CPS-UN4 and CPS-EI, are designed to work in conjunction with LiftMaster commercial door operators to provide enhanced door safety and a broad range of modes and features to end users. Either monitored photo-sensor or monitored 4-wire sensing edge (in conjunction with the CPS-EI Edge Interface) protection may be selected, but one must be detected by the LiftMaster

Logic 4.0 or Medium-Duty Logic circuit board in order to unlock full functionality.

Ancillary Entrapment Protection: (optional) LiftMaster Retro-Reflective Commercial Protector System® photo sensors, 2-wire non-monitored sensing edges and pneumatic sensing edges are considered secondary entrapment protection and may be used to supplement primary entrapment protection or basic constant-pressure-to-close.

Solenoid Brake: Solenoid actuated brake prevents coasting. Order operator BMT. Standard on 3/4 HP and higher.

Auto-Reconnect Trolley Assembly: Spring-loaded trolley features nylon inserts for quiet operation and auto-reconnect feature eliminating the need to manually reattach the door arm to the trolley after emergency disconnect.

Radio Control: Universal transmitters and receivers are available to signal the operator to open and/or close.

Key Switch: Designed to restrict operation of door to authorized personnel only. Various types available.

Interlock Switch: Prevents accidental operation of the door by interrupting the control circuit.