

MODEL T
COMMERCIAL DOOR
OPERATOR

CHAMBERLAIN®
LiftMaster
ELITE™ SERIES LOGIC 3.0

USP
UNITED STEEL PRODUCTS



INDUSTRIAL-DUTY TROLLEY OPERATOR FOR STANDARD LIFT SECTIONAL DOORS

- Low profile
- Industrial ball bearings on output shaft

Logic 3.0 Technology

More included features than ever before. Easier and faster to install.

Elite™ Series Commercial Door Operators are engineered, manufactured and tested to provide reliable service to meet the toughest commercial applications.

Added Value

- Built-in 3-channel, 315MHz radio receiver lets you add as many as 23 Security+® or unlimited DIP switch remote controls.
- All LiftMaster® 3-button remotes can be programmed for open/close/stop operation.
- Improved Maintenance Alert System™ lets you establish 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 may be set to close in 5-second or 1-minute increments. LED flashes to show timer countdown.
- Thermal motor overload can now be easily reset from the 3-button floor level control station.
- Programmable mid-stop allows door to stop at mid-point during open travel.
- Programmable maximum run timer signals door to reverse or stop if closing time exceeds maximum by more than 10 seconds.

Reliability

- Switchless motor eliminates stuck start switch and motor malfunctions on single-phase operators, the industry's #1 cause of motor failure and callbacks.
- All high-voltage connections have been removed from the board for safer installation and improved reliability.
- 1-1/2-second delay-on-reverse helps prevent door and operator wear.

Programming Simplicity

- Selector dial replaces DIP switches for selecting wiring types and programming.
- Selector switch for failsafe and non-failsafe wiring types.
- Diagnostic LEDs speed installation and troubleshooting of more features including photo-eyes, mid-stop, timer and timer defeat.
- Motor direction jumper lets you change motor direction by simply moving a jumper.



Includes the Logic 3.0 board and the improved Maintenance Alert System™



Featuring built-in radio receiver
Compatible with up to 23 Security+®
or unlimited DIP switch remote controls

(Remote controls sold separately)

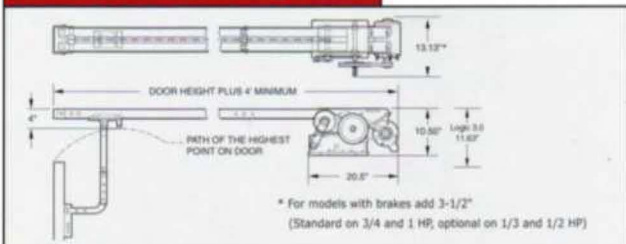
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Standard Features

- 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. Capacitor start on single-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 disconnect for emergency manual operation.
- Wiring Type**
 B2, C2, D1 and E2 wiring types are all standard and easily selectable using the Logic 3.0 Control Board (L). T and TS wiring can be activated with the use of the CPS-L or CPS-LN4. Reversing Contactor Units (M) have C2 wiring standard and B2 available by simply moving a jumper wire. All operators are pre-wired to accept a sensing edge, photoelectric sensors, radio controls and most types of access control equipment. Failsafe wiring can be selected with the addition of a CPS-L, CPS-LN4 or failsafe edge and CPS3 card.
- Radio Receiver & External Radio Control Terminal**
 315MHz radio receiver included as standard on Logic 3.0. Accepts up to 23 Security+® remote controls and unlimited DIP switch remotes. External terminals provide 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 friction clutch 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 for open/close/stop functions is standard for all operators. Other controls available.
- Quick-Mount Header Bracket**
 For fast, swing-up mounting, guides on rail spacers for quiet, smooth operation. Includes quick-mount header bracket which provides fast, swing-up installation.

Clearance and Mounting Details



Also Available... 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. Circuit provides easy selection between C2 and B2 wiring with the movement of a single wire.

CHAMBERLAIN®
LiftMaster®

THE CHAMBERLAIN GROUP, INC.
 845 Larch Avenue • Elmhurst, IL 60126

www.liftmaster.com

- Rail Assembly**
 High-strength dual L-rail track with exclusive nylon quiet-gliding chain

Control Accessories and Options

- CPS® Commercial Protector System®:**
CPS, CPS-L, CPS-N4, CPS-LN4 (recommended)
 An inexpensive "non-contact" photo safety sensor designed to sense an obstruction and signal the door operator to reverse to open.
- Sensing Edge (recommended)**
 Designed to sense an obstruction and signal door operator to stop or reverse as desired. Either an electric or pneumatic sensing device can be added to bottom edge of door.
- Transmitters**
 1- and 3-button transmitters available for Logic 3.0. 3-button transmitter can be programmed for open/close/stop functionality. Radio receiver and transmitters available for mechanical operators.
- Treadle**
 Signals door operator to open and/or close when vehicle depresses treadle.
- 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.

Available Plug-in Options for the Logic 3.0 Control Board (L)

- Timer-to-Close**
 Automatically closes the door – programmable in 5-second or 1-minute increments. Included with the CPS-L, CPS3 and CPS-LN4 photo-eye packages.
- 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.
- Warning Signal**
 Provides safety warning prior to close (when using timer-to-close feature). Apartment warning light function for use with included red/green light module. System also supports audio warning devices and includes down mid-stop feature.
- CPS3 Option**
 Enables the addition of a second set of photo-eyes or 2- or 4-wire, self-monitoring edge.

Maximum Door Area (Sq. Ft.)

HORSEPOWER	24 GA./22 GA. STEEL		20 GA. STEEL	16 GA. STEEL	
	FIBERGLASS	ALUMINUM DOORS	WOOD DOORS		
			24 GA. STEEL INSULATED	20 GA. STEEL INSULATED	16 GA. STEEL INSULATED
1/3	310	285	260	175	125
1/2	400	350	320	250	200
3/4	560	500	450	325	275
1	640	625	560	400	310

NOTE: On steel insulated doors, a 24 gauge back panel is assumed. If a heavier back panel is supplied, use the next higher HP rating. A dual trolley modification is recommended for doors 22 ft. or wider. See modifications.



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