

CHAMBERLAIN®  
**LiftMaster**  
ELITE™ SERIES LOGIC 3.0

**MODEL DH**  
COMMERCIAL DOOR  
OPERATOR

**USP**  
UNITED STEEL PRODUCTS



## INDUSTRIAL-DUTY HOIST OPERATOR WITH INTERNAL DOOR LOCK SENSOR

- Internal door lock sensor
- Removable hinged electrical box cover
- Continuous-duty high-starting torque motor
- Universal-mount frame design
- Industrial ball bearings on output shaft
- Emergency chain hoist with electric interlock

### 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)



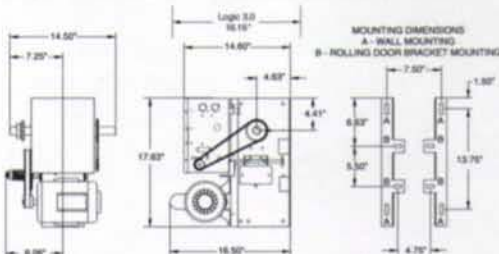
# MODEL DH

COMMERCIAL DOOR  
OPERATOR

## Standard Features

- Motor**  
 Continuous-duty high-starting torque motor with instant reverse and overload protection. Available in 1/3 and 1/2 HP; single- or three-phase. Capacitor start on single-phase. Motor removable without affecting limit switch settings.
- Door Lock Sensor**  
 The adjustable door lock sensor can detect if the door lock is engaged and will stop the operator, eliminating jamming and damage to the door or operator. There is no longer any need for wiring guide-mounted interlocks.
- Drive Reduction**  
 First-stage heavy-duty 5L V-belt; second and third stages #48 chain; #50 drive chain.
- Emergency Manual Operation**  
 Model DH provides easy emergency manual operation using an electrically interlocked floor level disconnect and chain hoist mechanism.
- Wiring Type**  
 D1, C2 and B2 wiring types are all available. D1 wiring is standard and is pre-wired to accept a photoelectric control, sensing edge, radio controls and most types of access control devices. Failsafe wiring can be selected with the addition of a CPS-L, CPS-LN4 or failsafe edge and CPS3 card.
- Positive Locking Mechanical Brake System**  
 Efficient self-locking mechanical reduction system functions as a holding brake.
- Friction Clutch**  
 Adjustable friction clutch helps protect against major damage to door and operator should the door meet an obstruction.
- Push Button Station**  
 2-button station for open/close functions is standard with D or D1 wiring. 3-button station is standard with B2 or C2 wiring.
- Control Circuit**  
 5V DC NEC Class 2 (logic), 24V DC NEC Class 2 (mechanical)
- 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.
- Construction**  
 NEMA 1 type electrical box, heavy-duty 11-gauge steel frame with durable powdercoat finish, all reduction sprockets drilled and pinned to shafts.

## Technical Information:



## 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.  
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- Bearings**  
 Industrial ball bearings on a 1" output shaft; heavy-duty, oil-filled iron bearings on reduction shafts.

## Control Accessories and Options

- 2-Position Keylock (flushmount)**  
 Ideal for use with DH operator. Provides open/close operation with spring to center (Model 02-109).
- Sensing Edge**  
 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. Requires D1, C2 or B2 wiring type.
- Brake**  
 Heavy-duty solenoid-actuated brake.
- 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.
- 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.

## 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. Part of the CPS-L, CPS and CPS-LN4 photo-eye packages or in the Logic 3.0 plug-in card package.
- 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.
- 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.)

ROLLING	34 GA. STEEL	32 GA. STEEL	30 GA. / 18 GA. STEEL	18 GA. STEEL	
	ALUMINUM GRILLES	ALUMINUM DOORS		STEEL GRILLES	
SECTIONAL		24 GA. / 22 GA. STEEL	20 GA. STEEL	16 GA. STEEL	
	FIBERGLASS	ALUMINUM DOORS	WOOD DOORS		
		24 GA. STEEL INSULATED		20 GA. STEEL INSULATED	18 GA. STEEL INSULATED
HP					
1/3	310	285	260	210	175
1/2	400	350	320	280	250

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.



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