



# ControlHoist™ 2.0 Optima

## Commercial Operator

Designed for larger sectional doors, rolling doors and higher-cycle applications, the ControlHoist 2.0 Optima is a heavy-duty, gear driven operator that is built with a continuous-duty, overload protected motor with high starting torque. All units feature heavy-duty industrial ball bearings, worm gear drive in oil bath and an electromechanical brake. Innovative features along with durable mechanical design, provide consistent and reliable operation for the most stringent applications.



## Specifications

**Operation:** Trolley, Dual Trolley or Jackshaft with hoist

**Duty Cycle:** 30/hr

**Drive:** Gear

**NEMA Options:** NEMA 1, NEMA 4, NEMA 12

**Motor:** Continuous Duty – ½, ¾, 1, 1½, 2 hp

**Circuit Board:** Solid State Logic with LCD Display, Removable Terminal Strip and Auxiliary Board Harness

**Power:** 115/230V 1-Phase, 208/230/460/575V 3-Phase

**Brake:** Standard

**Wiring Options:** 24V Class 2, On-board Selection

**Radio Receiver:** Optional

**Radio transmitter:** Optional

**Warranty:** 2 Years

*\*For NEMA 4 & 575V 3-Phase specifications, please contact factory.*

## Standard Features

**Entrapment:** UL 325 2010 requires all commercial operators to use constant pressure to close or be equipped with an approved monitored entrapment protection device such as a monitored photo eye or reversing edge. All ControlHoist 2.0 commercial operators are provided standard with constant pressure to close. Up to two (2) monitored entrapment devices can be selected with all ControlHoist 2.0 operators. In addition a non-monitored entrapment device can also be selected.

**LCD (Liquid Crystal Display):** The 16 character LCD display allows for easy programming with an intuitive set up menu. Status indicators provide real-time status and display error messages for easy troubleshooting assistance.

**Cycle Counter:** LCD (Liquid Crystal Display) clearly indicates the exact number of cycles logged for easy maintenance support.

**Removable Terminal Strip:** The two-piece, snap in place, removable terminal strip allows for easy wiring, as opposed to competitive product that only offers a traditional stationary terminal strip.

**Programmable Mid-Stop:** Adjustable from 3-30 seconds, this feature enables partial opening of door to a preprogrammed position for energy savings, time savings and convenience.

**Timer-To-Close:** Closes the door automatically after a predetermined amount of time has elapsed, for security and convenience.

## Optional Feature

**Auxiliary Contact Board:** Provides auxiliary contacts when the door is in motion and at the open and close limits. The auxiliary board provides but is not limited to the following features:

- Courtesy Light which illuminates whenever the door is activated.
- Capability to tie into Horn & Strobes for ADA compliance.
- Capability to tie into a Traffic Light to provide safe entering and exiting of the facility.
- Security feature which allows the ability to connect to a facilities security system.

**Ventilation Feature:** When a device such as a CO detector is activated, door will partially open for a pre-determined amount of time. Once the CO detector is clear, the door will close.

**Fire Station Timer:** Ideal for fire stations. A push button or pull cord can be used to activate the open cycle and timer to close feature. Only the push button or pull cord will control the timer to close.

**Motor:** Continuous-duty, overload protected motor with high starting torque.

**Drive Reduction:** Primary reduction is worm gear running in oil bath. Secondary reduction is by chain and sprocket.

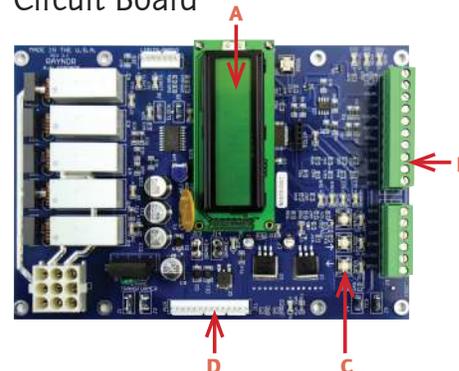
**Electro Magnetic Brake System:** 24V DC brake. Fewer mechanical parts for improved reliability.

**Adjustable Friction Clutch:** Helps to protect the door and operator from damage should it come into contact with any obstruction.

**3-Button Control Station:** Provides open/close/stop functions.

**Exterior Radio Control Terminal:** Provides for fast and easy connection of radio controls. When range is an issue, an external mounted radio receiver allows the flexibility for the receiver to be moved to a new location for improved range.

## Circuit Board



- A. *LCD Display*
- B. *Two-Piece Removable Terminal Strip*
- C. *On-board open/close/stop buttons*
- D. *Auxiliary Board Harness*

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