



# Richards-Wilcox

Engineered For Life



## **DYNA-HOIST** **DC SERIES**

**DC Series direct drive Door Operator from Richards-Wilcox is a leap forward in DC operator design.**

It's Easy to install, set up and trouble-shoot, this high cycle operator is loaded with features, yet remarkably reliable and simple to use.

DC Series operators run smooth and silently.

### **Some Exceptional Standard Features Include:**

- Programmable Speed
- Programmable Closing Timer
- Soft Start, Soft Stop
- Battery Back-Up
- Large Back Lit LCD Display
- Polarized Photo Cell & Prism Reflector

### **Available in the following variations:**

- 1/2 HP for 1" shaft
- 3/4 HP for 1" shaft
- 3/4 HP for 1.25" shaft
- 1 HP for 1.25" shaft



## **RICHARDS-WILCOX GARAGE DOORS**

**5100 Timberlea Boulevard, Mississauga, Ontario Canada L4W 2S5**

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**[www.rwdoors.com](http://www.rwdoors.com)**

# Dyna-Hoist DC operator series

## STANDARD INPUTS

**24dc Power:** Up to 1A of current available to provide power for peripheral devices.

**Reversing Devices:** Terminals provided for your choice of standard or monitored reversing devices including Reversing Edge, Photo Eye, Light Curtains, etc.

**Activation Devices:** Terminals provided for activation devices including Floor Loop Detectors, Pull Cords, Wireless Pull Cords, Motion Detectors, Wireless Radio, etc. A1 terminal opens to Fully-Open height, A2 opens to Set Limit Height.

**Push Button Station:** Terminals provided for wired, remote Push Button Stations. Can be set to open to Fully-Open for Set-Limit Height

**Remote Radio:** Inputs for all types of wireless remote receivers. Can be set to open to Fully-Open or Set Limit Heights.

## PROPRIETARY WIRELESS RECEIVER

A header is provided for the addition of one, or all of Dyna-Hoist DC Series' optional wireless devices including:

### Wireless Reversing Edge



## STANDARD OUTPUTS

**Traffic Lights/Warning Flasher/Alarm:** Terminals provided for LED Traffic Lights (Red when door closed or moving, Green in Open Position Only) and for Warning Flasher and Audible Alarm (signal when door in motion).

**Programmable Relay Outputs (1NO, 1NC):** Available to provide signaling for interlocking. Menu selectable either in Door Open or Door Closed position (relays are active in Door Open position from factory).

## OPERATORS

**DC 500-100:** 1/2 HP, 1" Shaft

**DC 750-100:** 3/4 HP, 1" Shaft

**DC 750-125:** 3/4 HP, 1.25" Shaft

**DC 1000-125:** 1 HP, 1.25" Shaft

HORSE POWER	MAX DOOR SIZE (For a properly balanced door)
1/2 HP	200 sq. ft.
3/4 HP	400 sq. ft.
1 HP	600 sq. ft.

## OPTIONS & ACCESSORIES

Universal 2 Channel Receiver

Universal 3 Channel Transmitter

3 Push Button Station

Single Push Button Station

Receiver-2 Remote Pull Cord Switches

Wireless Pull Cord

Thru Beam Photo Receiver

Thru Beam Photo Transmitter

Polarized Photo Eye

50 x 50 - Polarized Prism Reflector

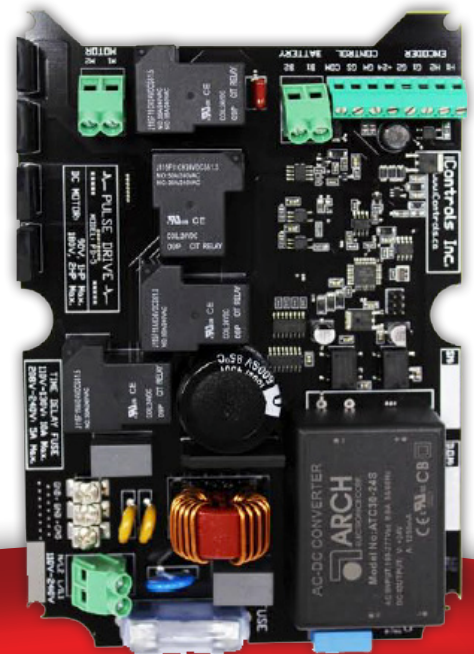
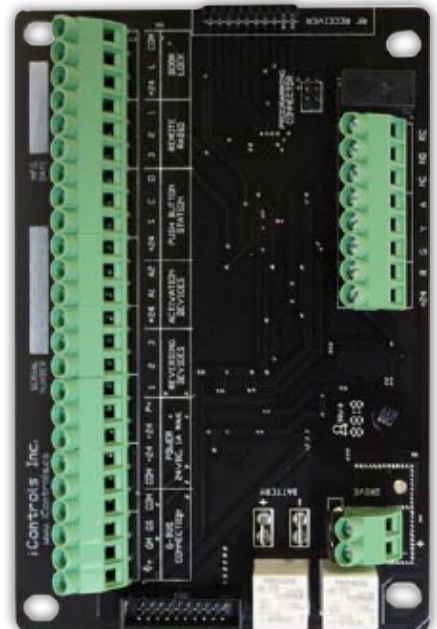
L Mounting Bracket for Photo Eye Devices

Flashing Tower Light

Flashing Tower Light-Audible Signal

LED Red and Green Light

Door Lock Sensor w/Bracket





# GENERAL FEATURES

**Weatherproof Encoder:** Offers real-time monitoring of the position of the door, enabling SOFT START/SOFT STOP functions, easy limit setting and dual stage opening.

**Programmable Speed:** This operator is built for opening speeds up to 24" per second, but it can be adjusted to best suit the application. In the Setup Menu, select between High, Medium and Low speeds for Opening and Closing functions (separately). Opening speeds can be set to 24"/s (High), 16"/s (Medium) or 12"/s (Slow). Closing speeds can be set to 16"/s (High), 12"/s (Medium) or 8"/s (Slow). Please note that varying drum styles/sizes can affect these speeds and the selection should be made accordingly.

**Separated Voltages:** A junction box mounted near the motor contains all power connections (away from users), while the control panel requires only the 24Vdc supplied by the operator, and contains all connections for peripherals providing easy, safe low-voltage access.

**Universal Single Phase Input:** The drive can accept single phase voltage from 100 to 240Vac. Choose between 110-130Vac or 208-240Vac on the easy to use Setup Menu.

**Adjustable Torque Settings:** While Dyna-Hoist DC Series Operators are designed for balanced doors, certain installations could require added torque to fully open or close. This operator has adjustable torque settings for both Opening and Closing functions (separately). Choose between Off, Low, Medium or High to ensure the smoothest possible door operation in either direction.

**Easy Installation:** The motor/operator simply slides on the keyed solid shaft of any counter-balanced door, and then one bolt secures the torque arm. The control panel is mounted at user level secured by four simple brackets/bolts. 6 wires run between the Junction Box and the User Control Panel for power, communications and battery backup needs.

**Simple Setup:** Set Limits, Speed, Opening Height, Closing Timer, etc., at user level on the Control Panel following guided menu options on the easy to read LCD screen.

**Dual Upper Limits:** Choose between Fully-Open or Set-Limit heights to increase time and energy efficiency. Available as wired inputs (A1 to Fully-Open, A2 to Set-Limit), or programmable options for Remote Radio and Push Button Stations Inputs.

**Programmable Closing Timer:** Set your door to automatically close anywhere between 1-99 seconds on multiple inputs.

**Cycle Counter:** Displays up to 10,000,000 door cycles

**Door Lock Terminals:** Use them in conjunction with a mechanical switch in order to disable the operator and prevent its use in maintenance or shut-down situations. Alternately use them with an appropriately installed Door Lock Sensor (available as an option) to shut down operator use while the door is latched.

**Battery Back-Up:** In a power outage situation the included batteries provides adequate power to raise and/or lower your door multiple times (press and hold operation for safe emergency use). A built-in trickle charger ensures that the batteries are always charged and ready. Battery Backup will work even if the control board(s) are damaged.

**Crankshaft Socket:** Just in case the battery is removed or fully drained, a 3/8" socket is provided for manual operation in power outage situations.

**Large Back Lit LCD Display:** 20 x 4 character LCD screen facilitates set-up and trouble-shooting and provides real time monitoring.

**Programmable Dynamic Braking Options:** Ensure safe, controlled deceleration on doors with high inertia.

**Complies with UL325 requirements.**