

iControls®

PULSE *Direct Drive DC Operators*
PULSE *with Battery Backup*

PULSE 100 Series

FEATURES:

- Pre-Wired for Fast Installation - Just Mount, Plug & Go
- Lower Cost - Higher Performance
- Patented Built-in 24V Battery Backup
- Programmable Speeds up to 24" /s
- Soft Start/Soft Stop
- Adjustable Force Monitoring
- Integrated Door Balance Check
- Closing Timer from 1-99s
- Reliable & Precise Encoder
- Set Limits at Operator Level or from Push-Button Station
- LCD for Easy-To-Read Menu Options, Limit Setup and Troubleshooting
- Available in 3/8 HP and 1/2 HP with 30, 40 or 50:1 Gearbox Options
- 2 Year, 250,000 Cycle Warranty
- cULus LISTED for Residential & Commercial Applications



cUL **US**
LISTED
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PULSE 100 SERIES OVERVIEW

The Pulse 100 Series Operators from iControls are designed for installations where the needs of cost effectiveness and high-performance meet. These Direct Drive DC Operators are loaded with features and programmable options, are reliable, and are easy to install, operate and maintain. Smooth, powerful and quiet, the PULSE 100 series operators are an efficient solution for balanced, sectional doors up to 200 sq. ft., and loaded with features including the following:

PRE-WIRED FOR FAST INSTALLATION

Supplied pre-wired out of the box. The operator is wired to its push-button station, and in turn to the provided polarized reflective photo-eye sensor. The unit also has a 5 ft. North American 3 prong corded plug pre-wired for its electrical connection - no electrician is required - simply mount, plug and go. This increases an installer's efficiency in the field, saving dealers time and money.

PATENTED BATTERY BACKUP

Should power fail, the included batteries provide power for multiple door cycles (press and hold operation for safe emergency use). Built on a separate circuit, the PULSE battery backup will work even if the control and/or drive board has been damaged (lightning strike, impact, etc) - setting it apart from all other systems that rely on full functionality of the printed circuit board. A built-in trickle charger ensures that the batteries are always charged and ready. Should the batteries be fully drained or missing, a crackshaft socket is also provided as a mechanical backup.

PROGRAMMABLE SPEEDS

Set the speed that best suits the installation. Achieve opening speeds up to 24"/s and closing speeds of up to 16"/s (varies according to drum size/type and door style).

SOFT START/SOFT STOP

This feature offers smooth, controlled acceleration and deceleration of the door, and helps prolong the life of its mechanical parts. It also aids in the prevention of cable throw. The distance of both the acceleration and deceleration distance can be programmed to match the door requirements as needed.

FORCE MONITORING

Should the door hit an obstruction or become jammed during the closing cycle, the system will sense the change in force and reverse the door to avoid further damage. This all but eliminates the need for an additional safety edge. Note that the sensitivity of this feature is adjustable, and can be tailored to the installation.

DOOR BALANCE CHECK

Once selected from the menu, the door automatically moves through one complete cycle and reports (on the LCD) the difference in force required to open the door versus closing it. Use this data to verify proper door balance without needing to remove the operator, and take the guesswork out of door balancing. A properly balanced door will extend the life of the door springs and maximize battery backup performance. PATENT PENDING.



ORDERING:

PULSE 138: 3/8 HP OPERATORS

3/8 HP 90VDC Motor with Size 50 Gearbox for 1" Keyed Solid Shaft. Includes 24V, 0.8Ah Battery Backup System. Pre-Wired Push Button Station & Reflective Photo Eye for Fast Installation. For Balanced Doors up to 150 sq. ft. / 750 lbs.

Model: PDC-138-1-40

PULSE 138 Operator with 1" Hollow Shaft 40:1 Ratio Gearbox, Opening Speeds up to 20"/s*. Ideal combination of Speed and Torque. Recommended for most door installations up to 150 sq. ft. / 750 lbs.

Model: PDC-138-1-30

PULSE 138 Operator with 1" Hollow Shaft 30:1 Ratio Gearbox, Opening Speeds up to 24"/s*. For lighter doors that require highest available opening speed. Applicable for door installations up to 150 sq. ft. / 588 lbs. that do not include bumper/pusher springs.

Model: PDC-138-1-50

PULSE 138 Operator with 1" Hollow Shaft 50:1 Ratio Gearbox, Opening Speeds up to 16"/s*. For heavier doors and challenging environments requiring more torque than speed. Applicable for commercial doors installations up to 150 sq. ft. / 750 lbs. Best choice for installations with bumper/pusher springs.

*Door speeds are dependant on installation variables such as drum size, door balance, door size, etc. Speeds indicated represent figures based on optimal installations and conditions.

PULSE 150: 1/2 HP OPERATORS

1/2 HP 90VDC Motor with Size 50 Gearbox for 1" Keyed Solid Shaft. Includes 24V, 0.8Ah Battery Backup System. Pre-Wired Push Button Station & Reflective Photo Eye for Fast Installation. For Balanced Doors up to 200 sq. ft. / 998 lbs.

Model: PDC-150-1-40

PULSE 150 Operator with 1" Hollow Shaft 40:1 Ratio Gearbox, Opening Speeds up to 20"/s*. Ideal combination of Speed and Torque. Recommended for most door installations up to 200 sq. ft. / 799 lbs.

Model: PDC-150-1-30

PULSE 150 Operator with 1" Hollow Shaft 30:1 Ratio Gearbox, Opening Speeds up to 24"/s*. For lighter doors that require highest available opening speed. Applicable for door installations up to 200 sq. ft. / 750 lbs. that do not include bumper/pusher springs.

Model: PDC-150-1-50

PULSE 150 Operator with 1" Hollow Shaft 50:1 Ratio Gearbox, Opening Speeds up to 16"/s*. For heavier doors and challenging environments requiring more torque than speed. Applicable for commercial doors installations up to 200 sq. ft. / 998 lbs. Best choice for installations with bumper/pusher springs.

*Door speeds are dependant on installation variables such as drum size, door balance, door size, etc. Speeds indicated represent figures based on optimal installations and conditions.