

Middle Swing[®] Door Operator



Exterior/Interior automatic access door operator



DOR-O-MATIC[®]

Middle Swing® Door Operator

Dor-O-Matic's Middle Swing low energy automatic swing door operator is the cost-effective solution to ADA-compliance. In automatic mode, push button controls open the door automatically and permit safe, easy access for the disabled or elderly.

The Middle Swing operator also acts as a regular pedestrian door, without automatic activation. All a pedestrian need do is push the door. When the door is pushed open about 5 degrees, Dor-O-Matic's power-assist Push 'N Go feature takes over, and continues to open the door, slowly and effortlessly.

In the event of power failure or when used manually, one may open the door with only 8 1/2 pounds of opening force.

The Middle Swing operator performs exceedingly well in either automatic or manual mode because of its rugged gearmotor that can take the abuse of heavy traffic. This, along with a unique clutch system, assures a smooth, accurate transition between the opening and closing cycles.

As an extra measure of safety, the Middle Swing operator features the "auto reverse" function. "Auto reverse" stops the door if an object is encountered during either the opening or the closing cycle and allows the door to reverse direction.

Installation is simple whether the choice is an overhead concealed or surface mounted application. Unlike many operators of this type, the Middle Swing operator utilizes a bottom-loaded design that allows easy access to adjustments. Once the bottom plate is removed, the fully encased controls are fully visible and easily accessible. All that remains of the set-up procedure is to activate the on/off toggle controls and adjust the closing and latching speeds to the desired performance level within ANSI standards

Standard Features

- Designed to code: ANSI A156.19 compliant and UL approved for fire doors. Carpets, guide rails and other safety devices are not required.
- Push 'N Go permits easy opening in manual as well as automatic mode.
- Auto Reverse safety feature reverses the direction of the door when it comes into contact with an object on opening and closing.
- Fast, easy installation – factory-assembled header with simple, color-coded plug-in cables simplifies installation and facilitates accurate adjustment.
- All electro-mechanical unit with microprocessor control eliminates unnecessary wear and prolongs the life of the unit.
- Overhead concealed and surface applied applications.

Middle Swing Suggested Specification

1. Middle Swing with Push 'N Go

- A. The low energy power operated door operating equipment (Middle Swing) shall be fabricated and delivered by Dor-O-Matic Inc., 7350 West Wilson Avenue, Harwood Heights, IL 60706.

2. Scope of Work:

A. Work Included:

Provide Dor-O-Matic Middle Swing electromechanical low energy power door operator complying with current ANSI/BHMA A-156.19 "Standard for Power Assist & Low Energy Power Operated Doors". Unit shall incorporate a universal microprocessor control box. Control box and motor/gear box shall be contained in a full door width extruded aluminum housing, 4 1/2" wide x 5 3/4" high, designed for (concealed O.H.) (surface applied) (interior) (exterior) application.

3. Work not included:

- A. Door, frame, locks, hinges. Electrical service of 115v. AC, 60 Hertz, single phase 15 amp. Fused circuit to operators, 1/2" conduit and electrical boxes at switch plates.
- B. Wood doors as described in wood door section or laminate plastic Section of Division 8.
- C. The general contractor shall provide adequate support for the door operating equipment.

4. Marking:

- A. Doors shall be equipped with decal(s) visible from either side, instructing the user as to the operation and function of the door.

5. System Operation:

A. Automatic Mode:

In the automatic mode, one of the activating switches on either side of the door is actuated and the door opens slowly – to backcheck (80°) in 3 to 6 seconds and to the fully open position in 4 to 7 seconds. The door will then remain open for a period of 5 seconds (the minimum allowed by the ANSI standard) to 30 seconds. After the time delay, the door closes by the spring in the door operator from 90° to 10° in 3 to 6 seconds and from 10° to fully closed in 1 1/2 to 2 seconds.

B. Manual with Push'N Go.

Pedestrian traffic pushes/pulls open the door. When the door is open approximately 5°, the control box takes over and continues to open the door – slowly and automatically to the full open position. When the door is opened as a result of Push'N Go, the door will stay fully open from 1 to 30 seconds depending on the delay chosen.

C. Manual with no Push'N Go.

The Middle Swing operator functions as a manual door closer with 8 1/2 lbs. of manual opening force with no Push'N Go feature.



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Automatic Door Products
7350 West Wilson Avenue
Harwood Heights, IL 60706-4708
708 867 7400 800 543 4635
Fax: 708 867 0291
www.doromatic.com