



ED900

—
Low Energy Operator



ED900 LOW ENERGY OPERATOR



Innovative Technology

With an innovative electromechanical drive and state-of-the-art microprocessor motion control system, the ED900 is DORMA's most advanced low-energy swing door power operator. The operator is exceptionally quiet, safe, and easy to use.

When operated manually, the ED900 demands little physical effort. Advanced power assist through the entire opening cycle makes even the heaviest-rated door feel light.

Fully ADA Compliant

The new operator is especially helpful for children, the elderly, persons with disabilities, or those carrying objects or pushing carts. This fully ADA-compliant device opens doors at precisely controlled speeds and forces, assuring safety for all users.

Advanced Features

The ED900 also includes a blow-open feature for smoke ventilation (per NFPA 92B), permanent hold-open, and an onboard power supply delivering 1.5 amps @ 24 VDC, which eliminates the need for a secondary power supply. It includes programmable options to accommodate even the most challenging door installations. In addition, the ED900 boasts the smallest footprint in the industry—up to 65 percent smaller than some other manufacturers' operators.

Features

Advanced Power Assist (Helping Force) through entire opening cycle. When opened manually, even the heaviest rated door feels about 5 lb.

Blow Open for integration into smoke ventilation systems per NFPA 92B.

Permanent Hold Open triggered two ways: (1) by onboard toggle switch or (2) by input from a remote source.

Obstacle Detection closes the door if an obstacle is detected during the opening cycle and reopens the door if an obstacle is detected during the closing cycle.

Push & Go triggered by manually opening the door 4° from the closed position.

Onboard Power Supply delivers an unprecedented 1.5 amps @ 24 VDC:

- 3x more power than the competition.
- No need for separate power supply.
- Powers most EAC devices, including electromagnetic locks, electric strikes, RF transmitters/receivers, illuminated push buttons, wall switches, presence detectors, motion sensors, and key pads.

Motion and Presence Sensors can be installed on both push and pull side of the opening.

Closing Speed and Latching Force under power failure conditions are field-adjustable as part of installation set-up and commissioning.

Positive Mechanical Stops with both Pull Side track mount and Push Side arms are included. In the event of power failure conditions, the stops prevent the door from opening past 90° or a pre-determined opening angle.

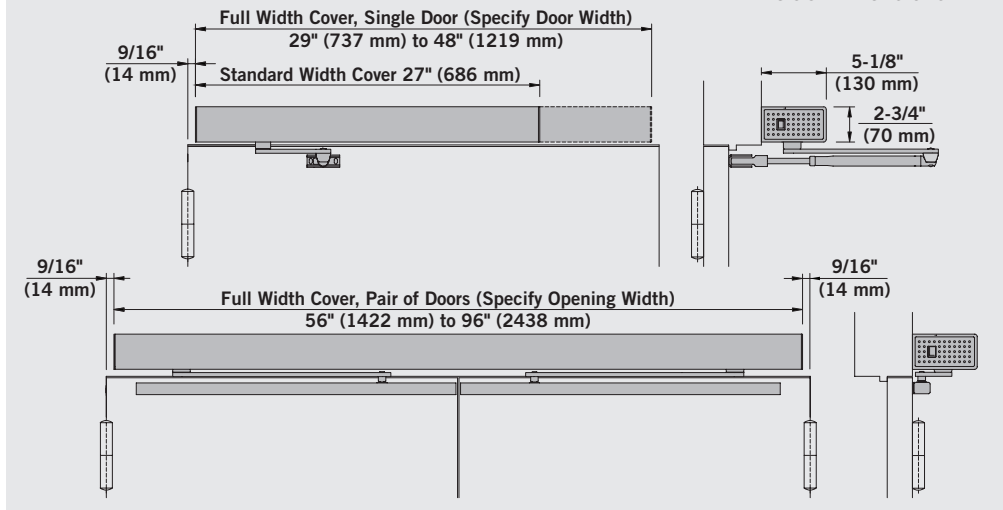
Vestibule Function Synchronizing Options—Contact DORMA Technical Service.

Synchronized Integration for Pair of Doors monitors both doors to open and close at the same speed.

Pull Side or Push Side Applications

Full Complement of Painted and Architectural Finishes—custom and designer.

Self-diagnosing Status Indicator—LED display error code messages.



ED900—DORMA'S
 innovative, whisper quiet
 low energy operator with
 electromechanical drive
 and advanced power assist.



Technical Specifications

Power Requirements	115 Vac +/-10%, 50/60 Hz, 6.6A max Branch Circuit Protection: 15A min
Onboard Power Supply for Access Control Devices	1.5A @ 24 VDC
Max Door Size	48" (1219 mm) wide 220 lb (100 kg)
Operator Weight	26.5 lb (12 kg)
Operating Temperatures	5° F to 122° F (-15° C to 50° C)
Standard Operator Dimensions	27" W x 2-3/4" H x 5-1/8" D (685 mm x 70 mm x 130 mm)
Max Opening Angle	Powered: 110° Manual: 180°
Non-handed	
On-board Cycle Counter	

Certifications, Listings & Approvals

- Americans for Disabilities Act (ADA)
- ICC/ANSI A117.1 Accessible and Useable Buildings and Facilities
- Underwriters Laboratories—ANSI/UL 325 Door, Drapery, Gate, Louver, and Window Operators and Systems
- ANSI/BHMA 156.19 Power Assist and Low Energy Power Operated Doors
- UL/CUL Listed for Fire Door Operators with Automatic Closers
- California State Fire Marshal
- Onboard Power Supply—ANSI/UL 294 Access Control System Units (Pending)

Programmable Options

Back Check & Latching Angles	
Opening Cycle	From 0 to 30 seconds.
Hold Open Time	
After Hours Access	From 0 to 30 seconds.
Hold Open Time	
Day/Night (Push-Pull)	Unlocking during business hours.
Delayed Unlocking	From 0 to 400 milliseconds. Use with electromechanical access control peripherals such as electric strikes or exit devices with electric latch retraction.
Closing Force Prior to Unlocking	Works with the Delayed Unlocking feature and accommodates reduction of latch bolt locking force prior to releasing the electromechanical access control device.
Latching Action Force	Power boost during latching cycle to overcome resistance for door seals, locking devices, or door/frame misalignment.
Latching Action Angle	For engaging the programmable latching action feature: Opening angle range 2° to 5°.
Keep Closed Force	Designed to keep the door in the closed position when unlocked.
Wind Load Control	Opening and closing cycles. Variables: Door size and weight, hinging, alignment, wind loads, HVAC imbalance. Forces measured at the door must conform with ANSI 156.1 to maintain ADA compliance.
Door Position Status	Monitors when door has reached fully open or fully closed position. Can communicate status to external monitoring device or console.
Synchronized Pair of Doors Integration	Opening of the second door can be delayed by up to 30° of when the first door is opened.