

120SYS Healthcare Low-Energy Door Operator

Includes:



**100SW low energy
operator**



HF 308

Concealed Mount

OR



HF 218 Surface

Mounted wave to open



The DeltrexUSA® 100SW Low-Energy Door Operator delivers ADA-compliant, touch-free access for healthcare environments where safety, hygiene, and accessibility are critical. Designed for hospitals, clinics, and laboratories, the 100SW operates at controlled low speeds and forces, ensuring safe passage for patients, staff, and visitors.

Activated by wave-to-open sensors HF308 or HF 218 the 120SYS enhances infection control while maintaining precise, intentional door operation.

KEY FEATURES & ADVANTAGES

ANSI/BHMA A156.19 Compliant

Engineered to meet ANSI/BHMA A156.19 low-energy standards, the 100SW provides reduced opening speed and force—ideal for facilities serving elderly, disabled, or mobility-impaired users.

Touchless Hygiene Solutions

Compatible with DeltrexUSA HF308 or HF218 wave-to-open switches, minimizing physical contact, reducing germ transmission, and improving accessibility for wheelchair users.

Intentional “Knowing Act” Activation

The 100SW operates only when deliberately activated, preventing unnecessary door cycles and improving safety in sensitive healthcare environments.

Integrated Access Control Power

An onboard power supply supports access control systems, eliminating the need for a secondary power source and simplifying installation.

Interior & Exterior Performance

Configurable for interior or exterior doors, with:

- Adjustable opening force
- Adjustable opening/closing speed
- Adjustable time delay to compensate for wind and stack pressure

Flexible Installation

Designed for new construction or retrofit applications, making it ideal for upgrades in active healthcare facilities.

Code-Required Door Markings

Supplied with dual instructional door signs, visible from both sides, clearly identifying door operation and function.

HEALTHCARE APPLICATIONS

- **Patient Rooms & Exam Rooms**
Smooth, barrier-free access for wheelchairs, gurneys, and medical staff.
- **Restrooms**
Improved hygiene, privacy, and ADA accessibility.
- **Laboratories & Clean Rooms**
Reduced touch points to help maintain sterile conditions.
- **Main Entrances & Pharmacies**
Reliable, compliant access for high-traffic public areas.

WHY CHOOSE DELTREXUSA®?

- Healthcare-focused engineering
- Code-compliant, low-energy safety design
- Touchless solutions that support infection control
- Simplified installation with integrated power
- Proven performance in demanding environments

SECTION 08 71 00

AUTOMATIC DOOR OPERATORS – LOW ENERGY

DeltrexUSA® I2OSYS.

PART 1 – GENERAL

1.01 SUMMARY

- A. Furnish and install low-energy automatic door operators for swinging doors, complete with controls, accessories, and signage, as indicated on the drawings and specified herein.
- B. Applications include healthcare facilities, patient rooms, restrooms, laboratories, pharmacies, and public entrances.

1.02 REFERENCES

Comply with the latest editions of the following:

- ANSI/BHMA A156.19 – Power Assist and Low Energy Power Operated Doors
- ADA Standards for Accessible Design
- NFPA 101 – Life Safety Code (where applicable)
- UL listed components where required by AHJ

1.03 SUBMITTALS

- A. Product Data: Manufacturer's specifications for low-energy door operator, controls, and accessories.
- B. Shop Drawings: Installation details, wiring diagrams, mounting configurations.
- C. Compliance Documentation: Evidence of ANSI/BHMA A156.19 compliance.
- D. Operation & Maintenance Manuals.

1.04 QUALITY ASSURANCE

- A. Manufacturer shall be ISO-certified and experienced in producing automatic door operators for healthcare environments.
- B. Installation shall be performed by factory-authorized technicians.
- C. Products shall be supplied by a single manufacturer to ensure compatibility.

1.05 WARRANTY

Provide manufacturer's standard warranty, minimum one (1) year on parts and workmanship.

PART 2 – PRODUCTS

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A. Basis of Design:

DeltrexUSA® – Model 100SW Low-Energy Door Operator

B. Substitutions: Not permitted without written approval.

2.02 OPERATOR DESCRIPTION

Low-energy automatic swing door operator designed for intentional (“knowing act”) activation, providing controlled opening and closing for accessibility and safety in healthcare environments.

2.03 PERFORMANCE REQUIREMENTS

A. Operate in accordance with ANSI/BHMA A156.19.

B. Low-energy operation with adjustable:

- Opening force
- Opening speed
- Closing speed
- Hold-open time delay

C. Capable of operation on interior or exterior doors, including conditions affected by wind and stack pressure.

2.04 FEATURES

A. Activation

- Compatible with HF308 or HF218 wave-to-open switches
- Push plates or other code-compliant activating devices
- Intentional activation only; no automatic presence sensors

B. Access Control Integration

- Onboard power supply for electric locks and access control devices
- Eliminates need for external power supply

C. Safety

- Manual door operation permitted during power loss

D. Markings

- Provide two (2) ANSI-required instructional signs, visible from each side of the door, indicating door operation and function.

2.05 MATERIALS & FINISHES

- A. **A. Operator housing: Manufacturer's standard finish.**
- B. **B. Fasteners: Corrosion-resistant.**
- C. **C. Electrical components: UL-listed**

2.06 HEALTHCARE APPLICATIONS

The DeltrexUSA® 100SW is suitable for:

- Patient Rooms and Exam Rooms
- Restrooms
- Laboratories and Clean Rooms
- Main Entrances and Pharmacies

PART 3 – EXECUTION

3.01 EXAMINATION

Verify door construction, frame conditions, power availability, and clearances prior to installation

3.02 INSTALLATION

- A. Install operator in strict accordance with manufacturer's instructions and applicable codes.
- B. Coordinate with door hardware, access control, and electrical trades.
- C. Adjust operator to meet ANSI/BHMA A156.19 requirements.

3.03 ADJUSTING & TESTING

- A. Test door operation for smooth, safe, and compliant performance.
- B. Verify activation devices, access control integration, and signage placement.
- C. Adjust opening force, speed, and delay for site conditions.
- D. Closing speed

3.04 CLEANING & PROTECTION

Clean exposed surfaces and protect equipment until Substantial Completion