

## **PART 1 - GENERAL**

### **1.1 SUMMARY**

Automatic electro-Mechanical door operators for:

1. Single door outswing or inswing
2. Simultaneous Pairs outswing or inswing
3. Double Egress : outswing or inswing
4. Exterior and interior, automatic door operators

Related Sections:

1. Division 7 - Caulking not specified in this section
2. Division 8 - Section Aluminum - Doors and Frames for entrances furnished separately,
3. Division 8 - Finished Hardware
4. Division 26 & 28 - electrical connections

### **1.2 REFERENCES**

1. Complies To UL std. 325 Certified to CSA std-247
2. Complies With UL 991 & UL CSA 0.8
3. Complies with ANSI Standard 156.10 and 156.19"

### **1.3 SUBMITTALS**

1. Product Data : Submit manufacturer's product and installation data,
2. Shop Drawings: Submit drawings showing layout, Product Components, anchorage, Interfacing, profiles, section details, all wiring and electrical requirements.
3. Samples: Submit Manufacturer samples of aluminum finishes,
4. Closeout Submittals Provide Owner's Manual and warranties,

#### 1.4 **QUALITY ASSURANCE**

Installer qualifications: Installer must be AAADM certified and factory trained to install and maintain units,

#### 1.5 **PROJECT CONDITIONS**

1. Measurements on shop drawings shall be verified by General contractors,
2. General Contractor shall verify all surfaces to be secure and plumb,
3. System Integration: Integrate automatic door operators with other systems (Mag locks, electric strike, Card reader)

#### 1.6 **MANUFACTURER WARRANTY**

1. Units to be warranted against defect in material and workmanship for a period of (3) years, from the date of substantial completion.
2. During the warranty period the Owner shall engage a factory-trained technician to perform repairs, an inspection shall be performed after each adjustment or repair and a completed inspection form shall be submitted to the Owner.

### **PART 2 - PRODUCTS**

#### 2.1 **AUTOMATIC DOOR OPERATORS** : Manufacturer

**Micom Americas INC.**  
(905)851-8688  
220 Viceroy Road Unit 15  
Vaughan, ON, L4K 3C2

#### 2.2 **AUTOMATIC DOOR SWING OPERATOR** : Shall be MICOM SMART SWING SW-800®

#### 2.3 **MATERIALS**: Aluminum Headers to be 6063-T6 with plated steel end plates,

#### 2.4 **COMPONENTS**:

1. Header size shall be 5 ½" x 4 ½" (140mm x 114mm) fabricated from extruded aluminum with steel end brackets,
2. Operator to be electro-mechanical system, Gears to be in a cast housing,
3. Opening shall be accomplished by 3/15<sup>th</sup> HP. DC Motor through reduction gears, splined spindle and door arm assembly attached to door,
4. Closing shall be accomplished by an adjustable clock spring,
5. Operator shall operate between temperature extremes of – 10F to +140F.
6. Manual use: The operator shall function as a manual door closer in the direction of swing with or without electrical power,

SMART SWING 800

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7. Operator must have adjustable electronic stop to prevent damage to hinges, door frames and operator arms)
8. It Shall have a field adjustable mechanical open stop as a backup, which only operates if extreme opening force is applied to the door,
9. The Control Board to operate from 90 Volts – 240 Volts maximum power consumption 150 Watts,
10. Operator shall be rated for door panel weighing up to 300 Kg.

## **2.5 CONTROLLER PROTECTION:**

The controller shall incorporate the following features to ensure trouble free operation:

- 1- Main fuse protection,
- 2- Automatic reset upon power up,
- 3- All power out puts to be protected by auto reset fuse,
- 4- Software watchdog reset,
- 5- Electronic surge protection.
- 6- Internal power supply protection,
- 7- Motor protection over-current protection,

## **2.6 POWER SWITCH:**

- Automatic door shall be equipped with On / Off / Hold open switch,

## **2.7 FEATURES:**

1. Adjustable Opening speed
2. Adjustable Back check speed & Back check position
3. Adjustable Closing speed
4. Adjustable Latching speed & Latching position,
5. Adjustable hold-open time between 1-60 seconds,
6. Reverse on obstruction,
7. Optional Push & Go Built in with separate adjustable hold-open time,
8. Fully adjustable Electronic Door stop,



SECTION#08  
**ARCHITECTURAL SPECIFICATION**  
AUTOMATIC DOOR OPERATORS

MODEL SW800

9. Power to Activate Electric lock adjustable 12 / 24 Volts DC,
10. Electric lock delay to prevent door binding
11. Fully adjustable Power Close to counteract positive & negative stack pressures,
12. Wind control Built in adjustable back check to prevent wind from damaging door while opening,

**2.8 INSTALLATION:**

1. Check products to make sure it is the right size and color, do not install scratched or damaged components,
2. Install header plum and true,
3. Anchor securely
4. 120 Volts Connection to door operator by others as specified in electrical division,
5. AAADM Certified installer to adjust automatic door operator to comply with ANSI/BHMA A156.19
6. AAADM Certified technician shall inspect and approve doors for compliance with ANSI/BHMA A156.19 before placing doors into operation,
7. Install all proper signage,
8. Clean work area and metal surfaces,
9. Explain and review the daily safety check procedure,

**OPTIONS NOT SPECIFIED**

- Activation options:
  - Push Plates, Hard wired
  - Wireless push plates, Wireless transmitters,
- Finish Options:
  - Color Anodizing,
  - Powder coating,
  - Cladding,
- Automatic door mounting:
  - Surface applied,
  - Center hung,
  - Center spindle,

**End of Section**