

## Swing Door Operator - EMSW EMO



### Silent and Suitable Everywhere

The EMSW EMO is one of the most silent operators in the market. It is an ideal solution for i.e. healthcare, residential, office & public service environments and many other places. Its low energy performance is compliant with DDA requirements. Meaning that the door should never exceed the opening and closing speed. The operator can also be functional under tough conditions and various climate changes.

### World-class Safety

The EMSW EMO is a perfect choice for hospitals and geriatric care of living facilities. Its power-assist feature allows the door to be opened with only a slight push, making access easy for the elderly or disabled. If there are obstacles during the door automatic movement process, the operator senses the presence of an obstruction and stops or reverse direction. These features provide a high degree of safety at a very reasonable cost compared to automated doors equipped with external safety sensors.

If optionally equipped with external safety sensors, the EMSW EMO operator monitors the sensors every time it opens or closes the door. If the sensors are not functioning properly, the automation is deactivated and the door will function as a manual swing door with a door closer. This built-in monitoring system insures that the swing door is always operating safely.

### Intelligent locking technology

Want to use an electronic lock? There are several intelligent functions that ensure that the EMO senses if the door is fully closed and properly locked. For example, the unique feature intelligent lock control makes sure that when a door has not been completely closed, the EMSW EMO will prompt the door to open again and close fully. The EMSW EMO also features intelligent double-door functionality. When installed on double swing doors that are rebated (overlapping) in the closed position, the operator always closes the doors in the right order so that they are fully closed, latched and can be locked.

### Cost Efficiency

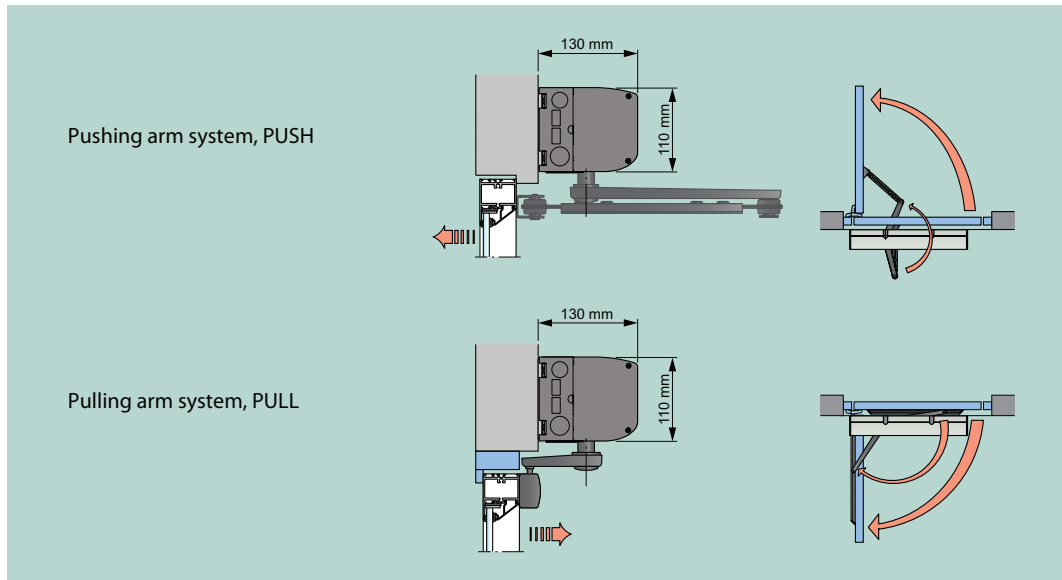
The EMSW EMO's motor is equipped with an electronic door brake that controls the door's speed when it is unexpectedly blown or forcefully pushed toward the open or closed position. This unique feature reduces the wear and tear, limiting breakdowns.

The modern motor control in the EMSW EMO minimizes the energy consumption needed for door operation. The energy consumption required for the EMSW EMO to open a 90 kg door is even lower than to light a 25W lamp!

### Back-Up when Power Failure

In the event of a power failure, the operator can be activated by battery power via a key impulse that opens the door once, then closes and locks it before switching off. This unique technology ensures that the entrance is accessible independent of power.

## Swing Door Operator - EMSW EMO



### Models

- Single operator – one drive unit and one control unit fitted under a cover
- Double operator – two drive units with control units fitted under the same cover for operation of two doors

### Arm systems

- Pushing arm system PUSH – The operator is installed on the wall on the opposite side of the door swing. Door opening angle adjustable up to 110°
- Pulling arm system PULL – The operator is installed on the wall on the same side as the door swing. Door opening angle adjustable up to 110°
- Pulling arm system ST-V/H – Used in windy conditions when the operator is installed on the wall on the same side as the door swing. Door opening angle adjustable up to 90°
- Drive shaft extensions – Allow the operator to be fitted higher on the wall or the arm lower on the door leaf

### Standard equipment

- Cover – manufactured in clear anodized aluminium. End plates made of black painted steel sheet
  - Dimensions:
    - Height 110 mm
    - Depth 130 mm
    - Single operator: Length 716 mm
    - Special length covers up to 1600 mm
    - Double operator: Length optional

- Control unit CU-ESD – with possibility to connect manual and automatic activation units, position switches and overhead presence detectors (OPD)
- “Push and go” – the door opens automatically from closed position if manually pushed
- Power assist – the motor gives power assist when the door is opened by hand

### Accessories and Options

- Extension unit EXU-SI – Used if additional functions are required, e.g. electro-mechanical lock, program selector, emergency battery, kill function open/close, key opening and outer impulse
- Extension unit EXU-SA – Has inputs for both monitored /non monitored door mounted sensors, which can give presence impulse and/or presence detection. Relay output for error or door indication is also integrated.
- Sync cable – Used on double doors to select the opening and closing order
- Finger trap protection devices
- Manual and automatic activation units
- Impulse and presence detection sensors
- Programme selectors
- Monitored battery backup unit: 24 VDC 1200 mA
- Electro-mechanical locking connection: 12 VDC max 500 mA or 24 VDC max 250 mA

### Technical specifications

- Power supply: 100-240 V AC, +10/-15%, 50/60 Hz
- Power consumption: max. 75 W
- Auxiliary voltage: 24 V DC, max. 400 mA
- Internal control fuse: 2 x T 6.3 AH 250 V
- Door leaf width: max. 1200 mm
- Recommended door weight: max. 90 kg
- Door opening angle: 80 - 110°
- Reveal: Push 0 - 100 mm (300 mm with longer telescopic part) / Pull 0 - 130 mm
- Opening and closing time: variable between 3 - 6 sec.
- Hold open time: 1.5 - 30 sec.
- Ambient temperature: -20°C to +45°C
- Relative humidity (non-condensing) max 85%
- Class of protection: IP20 - to be installed internally or externally with suitable weather protection
- The EMSW EMO complies with the UL 325 ANSI / BHMA A156.19, BS7036:1996 part 4 and DIN 18650 requirements for low-energy power-operated doors

