

Swing Door Operator

ASSA ABLOY SW100

ASSA ABLOY

ASSA ABLOY Entrance Systems

The global leader in
door opening solutions



The ASSA ABLOY SW100 can be mounted on either side of the door for pull or push action and is suitable for single- or double-doors.

Low energy

The ASSA ABLOY SW100 is an electromechanical operator and has been developed to comply with North American and European standards and requirements for low-energy power operated doors.

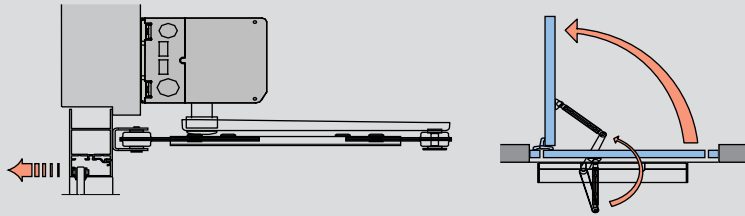
Silent and smart

The ASSA ABLOY SW100 is designed for silent applications with high intelligent functions. Safe, reliable and quiet operation make it the ideal choice for doors in healthcare, residential, office and public service environments where both low-noise and ease of access are important. It includes smart functions such as “Push-and-go”, which opens the door automatically when manually pushed from the closed position, and “Power Assist”, providing motorized assistance when the door is pulled opened by hand. The smart control unit offers added-value features like double-door controls and monitored battery back-up for convenience. Other added-value features are smart lock functions for security, monitored sensors and low-energy consumption.

Technical specifications

Power supply	100-240 V AC +10/-15%, 50/60Hz
Power consumption	max. 75 W
Auxiliary voltage	24 V DC, max. 400 mA
Monitored battery backup unit	24 V DC
Electromechanical locking connection	12 V DC max 500 mA or 24 V DC max 250 mA
Ambient temperature	-20°C to +45°C
Relative humidity (non-condensing)	max 85%
Max recommended Inertia J	
For PUSH = 45 kgm ²	
For PULL = 16 kgm ²	
J = Door weight x (Door width) ² /3	
Class of protection IP20 - to be installed internally or externally with suitable weather protection	
The ASSA ABLOY SW100 complies with	
- EN 16005	
- EN 60335-2-103	
- IEC 60335-1	
- IEC 60335-2-103	
- UL 325	
- UL 228	
- UL 10C	
- EN 1634-1	

Pushing arm system
PUSH



Pulling arm system
PULL



Design

The operator works electromechanically. It opens with motor and closes with motor and spring. The opening and closing speeds can be varied individually. The motor, control unit, gear box and spring are combined into a compact unit and mounted within the cover. The operator is connected to the door leaf with either a pushing or a pulling arm system.

Arm systems

PUSH – Pushing arm system. The operator is installed on the wall on the opposite side of the door swing. Door opening angle adjustable up to 110°.

PULL – Pulling arm system. The operator is installed on the wall on the same side as the door swing. Door opening angle adjustable up to 110°.

ST-V/H – Pulling arm system. 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 95°.

Shaft extensions – Allow the operator to be fitted higher on the wall or the arm lower on the door leaf.

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

Adjustments

- Opening and closing time: variable between 3 - 6 sec.
- Hold open time: 1.5 - 30 sec.

Standard equipment

Cover - Silver anodized aluminium
End plates - Black painted steel sheet
Dimensions: - Length 716 mm
- Height 110 mm
- Depth 130 mm

Control unit CU-ESD – with possibility to connect manual and automatic activation units, position switches and overhead presence detectors (OPD)

Push and go

Power assist

Accessories and Options

Extension unit EXU-SI – Used if additional functions are required, e.g. electromechanical 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

Battery backup unit

Finger trap protection devices

Manual and automatic activation units

Impulse and presence detection sensors

Programme selectors

This equipment should be installed, regularly inspected, maintained and serviced by trained and authorized personnel. Preventive maintenance plans are highly recommended for a proper and safe operation. Talk to your ASSA ABLOY Entrance Systems representative to learn more about our service offering!