



## **EM PSL100**

Sliding Door Operator



# EM PSL100 - For safety, convenience and cost efficiency

The EM PSL100 sliding door operator is one of the most versatile, safe and reliable door operators on the market. Its appealing design, high performance and a wide range of accessories for convenience, safety and security makes the EM PSL100 the ideal choice for almost any application, e.g. in healthcare, commercial and public buildings. EM PSL100 can be integrated as a part in the EM Entrematic profile system EMPS or easily be adapted to a variety of other door systems and customer requirements.

## Convenience

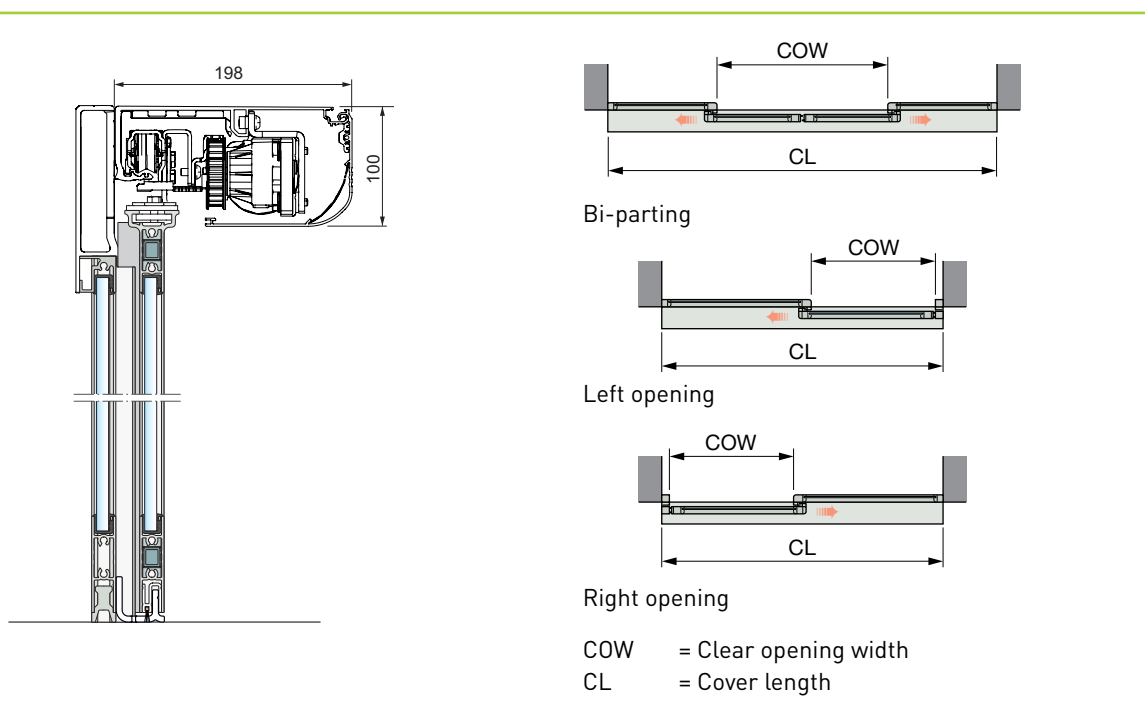
EM PSL100 is designed to meet demanding requirements on reliability, silent operation and user friendliness. The pre-programmed control system includes a variety of settings and functions to optimize the EM PSL100 operation for your unique automatic entrance. The prolonged hold open time (HOT) is an adjustable setting to prevent the door from closing and directly start opening at high traffic situations. When two doors are operating in an "air lock", the interlock function prevents the second door to open until the first door is closed and can

thereby save energy and prevent draft. The configurable settings for hold force in closed position, maximum opening and closing force are ideal to ensure proper operation also under tough and windy weather conditions.

## Safety and Security

EM PSL100 is designed with safety and security in mind. Being available in three different safety versions, EM PSL100 comply with all major safety standards for a wide range of door applications including escape routes. The basic version of EM PSL100 is applicable and compliant with e.g. EN16005 for all applications except escape routes. For escape routes, the EM PSL100 ER brings additional safety features such as redundant motor power supply and optional back-up batteries. To comply with specific national standards and regulations, EM PSL100 2M takes safety to the highest level. With two motors working independently, the second motor starts auto-

matically in the event of failure of the first motor. In the event of power failure, the two back-up batteries provide power to ensure a safe operation of the door. The pre-programmed control system offers several functions for a safe operation with EM PSL100. The reverse on obstruction function immediately reverse the door leaves if an obstruction is detected, after a period of time it then starts closing at a lower speed to check if the obstruction has disappeared and ensures a safe entrance. The control system supports various lock-systems and different locking strategies to offer the highest level of security for your automatic door. Depending of the application, type of users and safety requirements, there are a wide range of sensors, activation units and accessories to ensure an optimal, safe and secure solution with EM PSL100.



# Models

## Life time cost efficiency

The EM PSL100 is easy to install in both retrofit- and new installations. When delivered, the control unit, transmission and optional emergency units are all assembled on the support beam and thereby simplifies installation as well as on-site logistics. The innovative cover design and mechanical layout of the operator makes it easy to access the internal parts when performing commissioning and regular maintenance. EM PSL100 is delivered in three standard lengths (COW 1600, 2200 and 2800mm) and are all easily cut to the measurements of your unique entrance. When starting up EM PSL100, the intelligent control system automatically detects the door opening (COW) and door weights and thereby ensures a fast and proper commissioning of the operator. All versions of EM PSL100 are based on the same platform and therefore simplifies and reduce the required inventory of operator packages, accessories and spare parts



## Standard equipment

- Support beam with transmission
- Control unit with plug-in connections
- Carriage wheels

## Accessories

- Cover
- Back-up batteries
- Electromechanical locks
- Double boogie
- Program selectors
- Activation devices
- Safety sensors
- Door adaptors
- EMPS Profile systems



## Authority approvals

The EM PSL100 complies with the following directives:

2004/108/EC ElectroMagnetic Compatibility Directive (EMCD)

2006/42/EC Machinery Directive (MD)

Harmonized European standards which have been applied:

EN 60335-1

EN 61000-6-2

EN 61000-6-3

EN ISO 13849-1

EN 16005

Other standards or technical specifications, which have been applied:

FCC 47 CFR Part 15 B

UL 325

EN 60335-2-103

IEC 60335-2-103

IEC 60335-1



## Technical specifications

Power supply	100 V AC -10% to 240 VAC +10%, 50/60 Hz
Power consumption	Max. 250 W
Ambient temperature	-20C to +50C
Relative humidity (non-condensing)	Max. 85%
Recommended max. door weight:	
EM PSL100 Single	1*240kg
EM PSL100 Bi-Part	2*200kg
Wheel recommendations:	
Plastic (accessory)	up to 90kg/door leaf
Steel (standard)	up to 120kg / door leaf
Steel, double boogie (accessory)	up to 240kg / door leaf

