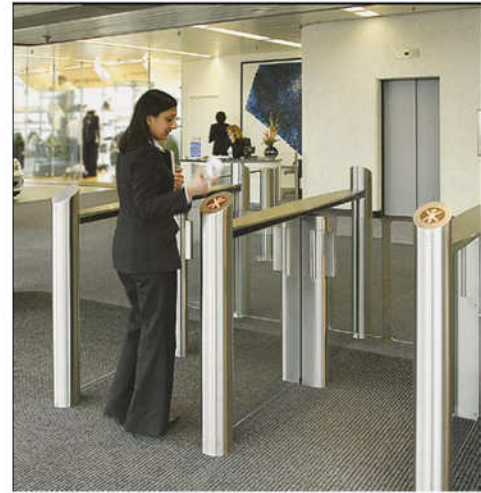




Speedwing

Model: PSW



Description

The PSW Series of security optical gate with integrated swing door is the very latest in high tech entrance control systems. The system uses an PE beam sensors connected with controller and optical technology to determine the passage of every individual entering and leaving a facility, and well proven motor drive swing door to physically deter unauthorised access.

The gate is able to authorize passage to persons presenting a valid electronic security card (or other authentication device) and to ensure only one person gains access for each authorised card presented.

Operation

Speedwing has three modes of operation :

1. Normally opened (Doors permanently retracted).
2. Normally closed (Doors controlled).
3. Lane closed (Doors permanently extended).

Speedwing provides bi-directional access control.

Each direction may be in one of three states :-

1. Free passage
2. Controlled access
3. Lane closed

Housing

The Speedwing are slim design to allow a multiple lane set up in a narrow corridor, standard stainless steel frame finish in AISI 304 or 316 with transparent tempered safety glass. The top cover can be finished with wood, corrian or other material options. Integral card reader mounting options and gate design options are available to give the most discreet overall finish possible.

Technical Data

Type	Normal/ Wide
Motor Drive	MHTM(R)
Voltage	110-240V
Frequency	50-60Hz
Power consumption	(Max.)1000W
Power consumption	(typical) 420W
Gate open/close time	(typical) 0.5s
Obstacle height	1000,1200, 1500mm
Weight (Approx.)	100/120kg
Length	1700/ 2000mm
Protection	32 or 44 IP
Throughput (per minute)	Up to 40
Operating Temperature	-25°C to +40°C
Passage width	550/ 900mm



Speedwing

Model: PSW

Motor Drive

Our new developed and patented Magnetic High Torque Motor MHTM(R) with position feedback is the key of the drive unit. The motor allows a direct drive of the gate wing without additional gear. The new universal MBC controller can provide functional features that are very useful and expedient for our customers. The motor offers numerous benefits including a near noiseless operation, smallest dynamic impacts forces, impact detection, lowest abrasion and fastest opening and closing times. The MHTM(R) motor operates under constant power in the home position; therefore the heat dissipated prevents for condensation and prolongs the life of the motor. The design lifetime is in excess of 30 Million operation or a minimum of 8 years.



The Gate Locking System

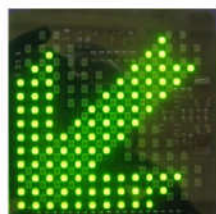
Electromagnetic Teeth Brake. This will never lock up in case of power failure or emergencies, even when force from a person is applied to the gate wings. The brake can also be engaged in many positions of the gate wings, not only in fully open or fully closed. Therefore increased security is possible.



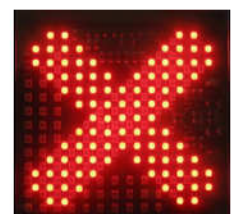
Gate end display

The Gate End Displays are used to indicate whether a lane is open or closed for passengers. Two symbols can be displayed:

- Green arrow



- Red cross





Pedestrian Wing Gate

Model: PSW

The Gate Controller MBC

The Gate Controller is able to control the operation of the gate via commands received from an external serial port or as a stand alone unit.

- CAN Bus or serial interface for networking
- System can be extended via RS232/ RS422/ RS485/ CAN-Bus/ I²C-Bus
- 8 Inputs, 6 Relay Outputs, 4 MOSFET Outputs
- Heartbeat Output
- Dimensions: h, 226mm, l, 185mm, w, 60mm

This controller provides a level of flexibility to fulfill customers requirements.

Full control of the gate can be performed by the backend system via the serial port to receive full gate status.

In a stand alone environment, simple switch commands allow the operation of the gate to occur whilst the processing of the patron is performed by the Gate Controller.



The Motor Controller

- Modular design - Logic Module - Power Module
- CAN Bus interface for networking
- Power stage 3 - Phase servo drive
- Closed loop operation for precise positioning
- Ramping up and ramping down configuration
- Fully adjustable speed
- Resolver Input for position feedback
- System can be extended via CAN
- Dimensions: h, 175mm, l, 141mm, w, 56mm



The Power Supply

The 110-240V/ 50 or 60 Hz Power supply provides power for motors and gate electronics.





Speedwing

Model: PSW

Logic

The housing is equipped with 16 PE beams for safety and passenger detection. The gate detects wrong way and tailgater, this can be indicated by buzzer or by activation of a potential free contact. In case of vandalism the logic activates a tooth break on the wings are mechanically blocked. In case of power failure the wings are unlocked and open by springs.

Alarm

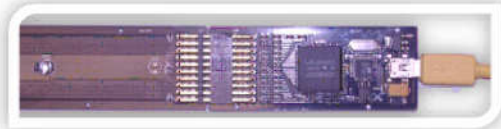
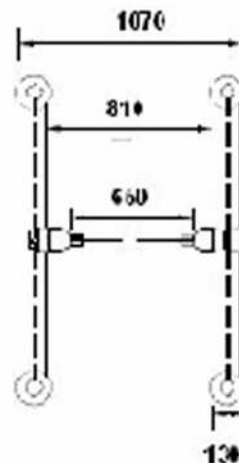
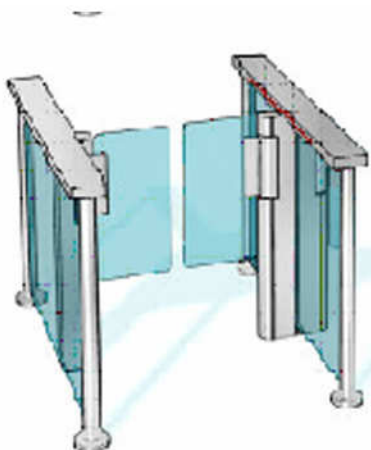
The Speedwing provides alarms for the following :-

1. Intrusion - A person is detected in the lane without a valid card
2. Tailgating – One or several persons follow illegally behind another user
3. Opposite direction – When the barrier opens, a person enters illegally from the wrong direction
4. Fire alarm – When the fire alarm input is triggered, the barrier will open immediately.

Declaration of conformity

The Gate and controller comply with the CE regulations. It can be supplied with UL certification and other on request.

Dimension



Options

- Stainless steel Grade 304, 316
- Incorporation in the top cover of an operation pictogram
- Personalized logo on fixed or mobile leaf
- Personalized top cover (wood etc.)
- Customized cabinets