

Technical Features

Place of Use	Indoors
Operating Temperature, Humidity	-20°C/+68°C (opt. -50°C with heater positive), RH 95% non-condensing.
Operating Intensity	100%, 7/24 use.

Body / Door Features

Made of 4 supporting main carrier columns placed on the lower chassis, glass walls and a completely closed ceiling with 2 lockable lids. Main carrier columns consist of 3 sections designed for installation of electronic system, card reader and access control systems. Optionally, a control point is available for real person verification (with biometric reader systems) with a column mounted in the passage corridor.

System has a rotating door structure independently on the entry and exit sides consisting of box profiles and rounded glass walls on the edges.

Gate is furnished with anti-tightening feature by rubber seals with pneumatic pressure sensor on glass doors and electronic torque control.

Body	Electrostatic powder coated (RAL 7021) steel body, 4+4 mm laminated glass (opt. BR class bullet-proof glass) walls.
Doors	Electrostatic powder coated (RAL 7021) aluminium beams, 4+4 mm rounded laminated glass (opt. BR class bullet-proof glass).

(*) Finishing : Orbital brushed matt.

Indicators / Illumination	Status - Direction Indicators : DOT MATRIX and strip LED, standard / LED interior illumination standard.
Power	Operating Voltage : 110/220V AC 50/60 Hz. (%±10), 24V DC. Consumption : ~40W at stand-by, max ~130W (varies according to the options and accessories used).

Operating Modes

System operates bi-directionally (entry-exit).

Operation modes can be changed through dip switch, IOS and/or android app.

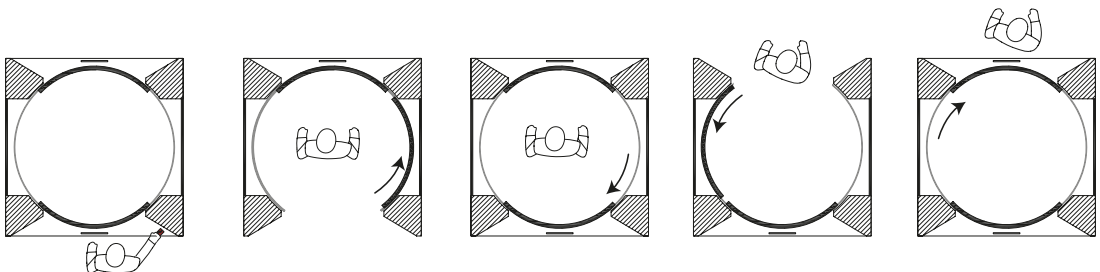
Entry - exit controlled	Entry controlled, exit free	Entry free, exit controlled
Entry - exit free	Entry-exit internal biometric control mode	

Can be customised for site specific access algorithms.

Operating System

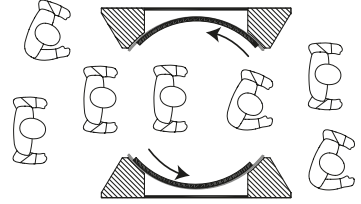
Electromechanical motorised doors are closed for both ways at stand-by (opt. open for one direction).

Person requests authorisation from the access control device (3rd party device) connected to the gate's entry system. Upon authorisation, first door opens allowing person enter inside. First door closes upon detection of the person inside by the weight sensor on the gate floor (in case the person do not enter, door closes at the end of time-out set previously). At both doors in closed position, weight sensors (load cells) once more control the presence of the person inside. Second doors opens in case there is a person inside and if he is authorised for access (otherwise, second door never opens, gate returns the person to his entry direction or keeps the person locked inside). Upon exit of the person, second door closes and systems returns to stand-by for next passage.



Optionally, a control point is available for real person verification (with 3rd party product biometric reader systems) with a column mounted in the passage corridor. Upon presence inside and at doors closed position, person requests a second authorisation and according to the authorisation, the second door opens and person completes his passage or returns to his entry direction. At the end of the process, door returns to stand-by position and remains locked.

In case of pushing the emergency rescue button inside the cabin, the entry door opens (or can be programmed for another action). Gate generates audio and/or visual alarm or relay output in cases of; passage can not be completed on time, the door is forced, presence of more than one person inside is detected, non-authorisation, the emergency rescue button is pushed, an unsolicited situation detected by the sensors.

Control System	All functions, parameters and operating modes can be changed through the control board (microprocessor controlled), IOS and/or android app. Firmware can be updated. All past function updates and changes are kept in the server and records can be traced. All inputs are opto-coupler protected. Controllable by dry contact (ground control). Compatible with all kinds of access control device. Optional RS232, RS485 or TCP/IP module is available. Gate operates by a position controlled (by encoder) motor driven and electronic torque controlled system. Functions such as all sensors, motor, indicators, passage scenarios and alarms are controlled by the electronic control unit containing a programmable microprocessor. Thanks to the microprocessors, no re-setting is necessary in case of a power failure. Electronic control unit is placed into the main carrier columns of the gate. Passage can be restricted externally by enable/disable feature even though access authorisation has been granted. Gate has a vibration resistant, microprocessor controlled, industrial design adaptable to meet any user demand. Motor driven, two independent mechanics systems are controlled by a single electronic control unit. Rotation speed and limitations of the doors are managed by encoder controlled P.I.D. system. Rotation speeds are continuously checked with the feedback from the encoder and motor driver card keeps the speed at the same level preventing slower or faster rotation. An electronic control card controlling the mechanics regulates all movements and outputs and in case of need a 485 output is optionally available for PC.
Flow Rate	Passage capacity (motorized) : ~4 person/min. (Passage capacity can change depending on the access control system utilized)
Emergency Mode	Both doors open automatically and system allows free passage (entry-exit) in both directions (fail safe). Works compatible with fire warning and similar systems. At the end of an emergency situation, system returns to its normal operating mode. 
Power-off Situation	System allows free passage (entry-exit) in both directions (fail safe) by pushing the doors manually. Optionally, can be set entry-exit locked (fail secure). Free passage by manual override key in fail secure option is available.
Weight	~460 kg
Safety	Moving doors contain pneumatic soft pressure sensors. In addition to pneumatic sensors, electronic torque control feature has been added. Continuous fresh air ventilation is provided in the passage area.
Cleaning, Maintenance, Manual Interference	Gate is furnished by a programmable key switch button on one side of the gate adjacent to the door. This button is programmable for the function desired by the user and set as default for opening one door for cleaning-maintenance or can be programmed for various requirements (i.e. manually evacuation of the person inside, unlocking of 1st or 2nd door, etc).
Optional Features and Accessories	Interior biometric system mounting column, card reader mounting bracket, mounting/connection guide for any type of safety sensors and detectors, BR class bullet-proof glass, different color options, manual override key (with fail secure option), heater positive, battery back-up, RS232-RS485-TCP/IP modules, limiter, motorized card collector unit and card collection box.



