



Innovating for a safer world and happier life.

Flap Barrier

DFB-420



DELOS INTERNATIONAL GROUP LTD

WWW.DELOSGROUP.COM

Features

- Ideal for a wide variety of pedestrian access requirements, the length of a single flap is not less than 300mm, which can promise the smooth accessing of a pedestrian with bags in both of his hands.
- Due to the mechanical anti-panic design, the gate wings will retract back into the cabinet automatically which help to keep the smooth flow in case of power failure.
- The flap barrier can show four different colors according to different states as standby, running, halt and waiting.
- The adoption of crank connecting rod design promises the stable machinery operation, and increase the service life effectively.
- The hydraulic kinetic cushion technology can not only promises a natural and smooth operating when in high-speed environment, but also effectively avoid the equipment vibration.
- It owns highly-secure protection, with different functions of detection logic. Different data, such as the number of passenger, can be output through communication forms such as RS 485, TCP/IP by alarm signals.
- When the barrier is halted, the toughened -glass flaps will be mechanically locked and can't been manually forced to open. Comprehensive working modes such as normally closed, normally open, emergency close, emergency open, fire alarm opening and fail-safe automatic demoting.
- With CE certification, and meet the EMC requirements.



Safety Design

This system provides an effective solution to prevent the wings to close on a person, luggage, or other obstructions.



PLC

Adoption of a powerful PLC design promises the easy adjustment and reliable working.



Surface Processing

The default cabinet adopt AISI-304 stainless steel, and arm is ACRYLIC. Elegant oval design integrates into all architectural surroundings.



Symbol

Precise backlit symbols for intuitive process and high throughput.



Top Cover

Top grade wood cover or stainless steel as option.



Emergency

Self safe design, open automatically if turn off power or input a emergency signal like fire alarm.



State LED

Four different colors according to different states as standby, running, halt and waiting.



Detection Sensor

Multiple sensors in both side, installed in the fittest position for detection. .

Working Mode

Working Principal

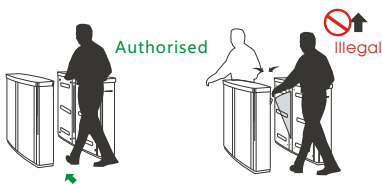
The Flap Barrier divides an area into a secure and non-secure side. The barrier will only allow access after authorization from an access control system or a signal from an external control panel.

► Normally closed working mode (default)



In this mode, after authorization by a card reader, biometric or other authorization system, the Operate symbols on top of the unit changes from a red cross into a green arrow. The user can now step into the lane. Detection cell will detect the user and the arms open. Along the way the cell follow the movement of the user. After passing finish, it will close immediately. To allow larger capacity through the Flap Barrier, the authorized number can be memorized. If no one passes after arms opened, it will close again, after the preset time has elapsed.

► Normally open working mode



In this mode, the arms will always open and only closes if an unauthorized user steps into the Flap Barrier. After authorization the display on the top plate shows a green arrow and the user can walk through the lane. The arms will remain open after passage.

The intrusion detections and alarming in normally closed/open mode.

'Standby' intrusion alarming

When the barrier is on standby, an intrusion is detected as soon as there is an obstruction of cell.



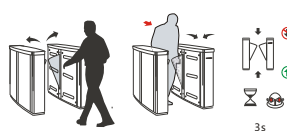
'Following' intrusion

After the passage of the barriers by an authorized person, another person following in the same direction and without authorization causes an intrusion. Alarming time: 3s



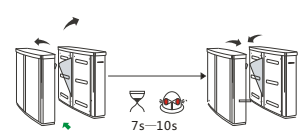
Counter direction intrusion

The intrusion is declared when a person is authorized in a direction while a passage in the other direction is in progress. Alarming time: 3s



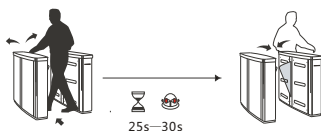
Overtime

If never detect any passing after authorization 20s, Flap Barrier will start alarming till 25s will cancel this passing authorization.



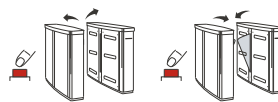
'Stay' intrusion alarming

After the authorized and detected have gone into the access but don't finish the passage. The barrier will keep open and waiting 25s. Then barrier will output "stay" intrusion and close in 30s. Unless passenger block the safety detection cell, the arms will close when he leave the detection cells. Alarming time: start at 25s detect gone into the access.



Emergency open / close mode

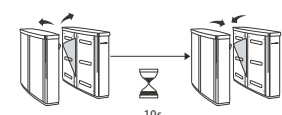
Those two modes are used in special applications, such as fire alarm, etc. In those modes, the authorization will be shield and arms remain open/close till input any signal to change to other mode.



Degradation mode

This mode appears when the detection cell are broken or blocked during initialization.

In this mode, authorization is valid but all of the detection cell are shield, the arms will only close after the valid time. (Default 10s)



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This flap barrier is designed and manufactured by Delos International. This unique pedestrian barrier installed in conjunction with any access control system provides valuable assistance to security personnel at any monitored entrance.

This Flap barrier is available as a single- or multiple-lane setup and is compatible with most access control systems, such as magnetic, biometric and proximity readers.

Specification

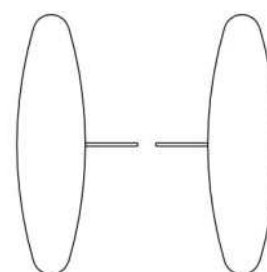
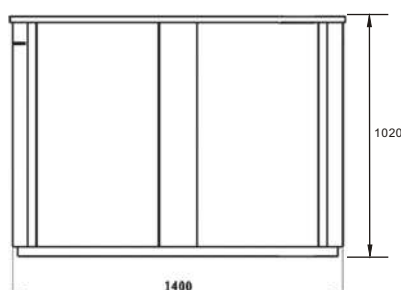
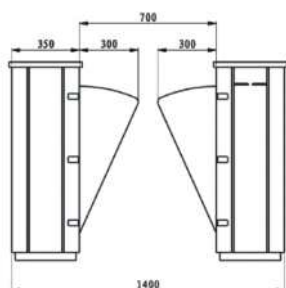
Denmision(mm)	1400*350*1020	Flank window	4
Arm(mm)	300	Speed	60/mintue (NO) ; 40/mintue (NC)
Voltage	Ac220 ± 10% V,50HZ	Open time	1S
Motor	24V/30W DC motor	Temperature	-20℃ ~ 60℃
Communication	Rs485	Environment	inside outside (awning)
Reader windows	2	Humidity	≤95%
Symbol	4	Weight	420L/F 100KG; 420M120KG
Initial time	20S		
Input signal	Dry contact, TTL, or pulse signal which width more than 100ms		



Options

- Single lane or multiple lane setups
 - Normally open or normally closed working mode
 - Top cover equipped with marble or stainless steel
- Several color of arms optional
- Adaptations for integration of a proximity card reader under the top cover
- Pedestal for mounting of external card readers, biometric or other authorization systems

Dimension



DELOS INTERNATIONAL GROUP LTD
WWW.DELOSGROUP.COM

T: +86-571-89305861

F: +86-571-89305880

E: sales@delosgroup.com

A: 9#, Haishu Road, Hangzhou, China.

