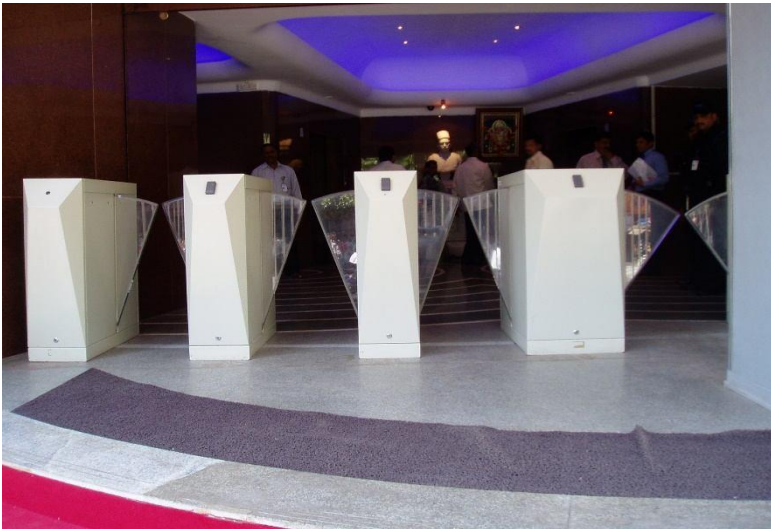




**Sivananda
Electronics**

Retractable Flap Barrier(RB Series) For pedestrian , people with reduced mobility & service personnel



Sailient Traits

- RBS series comes armed with Brushless DC motor this ensures low maintainance & long life
- Prudent & luxurious design that fits with any type of prestigious entry hall
- Retractable doors for quick opening & closing
- RBS series can be enhanced with tailgating feature for detecting trolley, luggage
- Flap Barriers can be intelligently coalesce with illuminating LED effect
- Mechanical & electronic locking in closed position prevents fraudulent entry
- Triggers automatic opening in event of an emergency
- Long lifecycles & low operating cost
- Many operating modes covering all possible pedestrian access control scenarios
- Comfortable passage
- It can be easily integrated with wide variety of access control system
- Variety of attractive design for single & multiple instllation are available.
- Enduring mechanical construction of RBS series
- The RBS series is equipped with bi-directional throughput feature, made especially for quick access control in areas with high traffic but limited space

Drive

- Brushless DC motor based drive & Sensor Controlled Passageway with automatic retractable flap barrier.

Functionality

- The Flap barrier supports bidirectional throughput. It ensures comfortable passage in area with high traffic & limited space

Design

- RBS series design is aesthetically pleasing . Its design consists of housing with built in control logic board (CLB). The design of the housing is made sleek and sturdy which results in less usage of space & reduced weight. Two acrylic flaps obstruct passage. In this case the 2 gates will be able to provide well-synchronized operation being controlled by one control signal. Astute visual indication can be incorporated into the flaps, this gives intuitive guidance to the pedestrian. The design ensures safe passage without entrapment & pinching points with safety clearance of at least 20mm – 50mm between the retractable flap doors.

Visual Indication

- It is equipped with LED display with bright pictogram on the side panel for status and direction indication (standard feature).

Note *The feature mentioned below is not a standard feature it is optional at extra cost*

- RBS series can be armed with swing doors coalesce with illuminating LED effect , this gives pedestrian an instinctive visual guidance edge. For better user guidance the flap doors are incorporated with LED illuminate distinct colors. For authorized entry the LED illuminated swing doors turn GREEN. For unauthorized, tailgating & wrong entry it turns RED.

Material

- RBS series Housing comes in Matt finish & mirror finish (optional at extra cost)
- Housing is also available in Mild steel single coat black color/RAL7035 finished powder coating.
- Flap doors comes in Acrylic material (18mm (-2mm))

Access Control

- Electrical control for both entry and exit operation are standard.
- It can be controlled by any third party access control systems RBS series gives client ability of choosing either pulse or potential control mode for correct operation of Flap Barriers with virtually any access control systems. In both control mode the flap doors are operated by input of the control signal to the connector block
- In case of power failure RBS series can be configured either fail safe or fail locked mode. Internal battery back up is provided for fail safe operation. In fail safe mode retractable Flap doors open automatically.
- In case of emergency RBS series can be configured to fail safe mode ie. Swing doors remain open till it gets the pulse

Note : *In case battery backup fail to open , RBS is provided with a lever to open the swing doors mechanically (Optional at extra cost)*

Control Mechanism

- Powerful DC Brushless motor ensuring low maintenance & long life.

- Controller ensures for safe movement without vibrations.

Interface

- RBS series is controlled via the CLB (Control Logic Board) placed inside the RBS housing. The CLB microcontroller processes the incoming commands, keeps tracks of the signals from the sensors, generates commands to the control mechanism and operates external devices.

The standard features are as follows:

- Input facility for unblocking the RBS series at the fire alarm command or from emergency unblocking button;
- Pre-ser timeout facility
- Single alarm relay output for connection of remote devices such as indicators, status lights, intrusion detector, sensors and sirens.
- Relay output for complete transaction

Operating Mode

Note RBS can be set in only one of the following mode according to the client requirement at the time of installation

	Flap*	Bidirectional	Entry	Exit
Mode1	Closed	✓	Ψ Controlled	Controlled
Mode2	Closed	✓	Free	• Free
Mode3	Closed	✓	Controlled	Free
Mode4	Closed	X	Controlled	N.A
Mode5	Closed	X	N.A	Controlled

* **Closed** – In standby position the flap doors obstruct the passage

Open- In standby position the flap doors does not obstruct the passage

¥ Instead of switch the swing doors open on receiving pulse from the sensor

• Free – The pulse is given by the switch provided, the flap doors will retract inside & align itself with the housing

Ψ Controlled- The pulse is given by the access control system, the flap doors will retract inside & align itself with the housing

Delivery Details

- The equipment is to be delivered at the job site in manufacturer's packaging; the equipment is to be wrapped in air bubble sheet, in wooden closed freight container. The equipment is to be delivered undamaged. Once at job site it is to be stored indoors in controlled environment. Product manual is to be sent along.

Installation

- Installation is to be carried out on a leveled and finished concrete floor at least 200 mm thick.
- A trench of 100mmX100mm is to be provided by the client according to installation drawings provided.

- It is to be carried out by a skilled installer only and in strict accordance with the manufacturer's instruction (supplied with the RBS) and installation drawings.
- Warranty of product would not cover service calls after improper installation.

Warranty

- Sivananda Electronics warranties its products against defects in material and workmanship for a period of one year from the date of installation or 15

months from the date of despatch, whichever is earlier. This warranty excludes normal wear on finishes or damage that occurs due to abuse or misuse.

Power Failure
/ Fire Alarm

- RBS series can be configured either fail safe or fail lock mode. In fail safe mode flap doors will retract inwards.
- The flap doors will not retract outwards till the power is restored or till it receives emergency signal in case of emergency. Once the power is back or it stops receiving signal the door will retract outwards automatically.

Adjunct accessories

- RBS series can be equipped with Sensors to detect Tailgating.
- Counter can be installed. It can either give inward movement relay output or a display is provided
- A common counter can be installed for multiple installation & Combine result of net inwards movements can be displayed
- LED illuminated flap provision can be provided (*Please refer Visual Indication sec. for more info*)

Note Adjunct accessories are available at extra cost

Work To Be provided by Client

Power supply & Cables
Access control systems & cables
Possible masonry & Cable Trench

Standard Technical Specification

Power Supply	230 V AC
Control Circuit	24 V DC
Nominal Consumption	75W (Peak-100 W)
Capacity/Minute	20 persons
Ambient Operating Temperature	0° to +50° C
Net weight (approx 1 Lane)	
IR safety sensor	They provide safe & secure passage for children & pedestrian

Dimensions & Specifications

Model	Passage Width (mm)	Disabled Access	Overall Width (mm)	Door Wing Height (mm)	Unit Height (mm)	Unit Length (mm)	Unit Width (mm)	Ground Clearance Flap (mm)
RB-1 / RB-1S	520	X	1120		1000	640	300	
RB-2 / RB-2S	900	✓	1880		1000	640	490	
RB-1TG / RB-1STG	520	X	1120		1000	1090	300	
RB-2TG / RB-2STG	900	✓	1880		1000	1090	490	

Note The above models are available in Stainless steel 304 or 316 (Matt & Mirror Finish) OR Mild steel (single coat color RAL7035 finished powder coating). Cost will vary according to the material opted by the client.

* **TG** Tail Gating Feature