



**Sivananda
Electronics**

Swing Lane Flap Barrier(SLB Series) For pedestrian , people with reduced mobility & service personnel



High Throughput



Less Power
Consumption



Timely Delivery



ACCESSIBLE



Comfortable & Safe Passage

Sailient Traits

- SLB series comes armed with Brushless DC motor this ensures low maintenance & lasting
- Prudent & luxurious design that fits with any type of prestigious entry hall
- Equipped with maintenance free (worm) gearbox
- Encoder ensures precise position and centre alignment
- SLB series comes full loaded with tailgating feature for detecting trolley, luggage
- Swing doors are intelligently coalesce with illuminating LED effect
- Mechanical & electronic locking in closed position prevents fraudulent entry
- Audible & Visual alarms
- Triggers automatic opening in event of an emergency
- Safety photocells
- It can be easily integrated with wide variety of access control system
- Many operating modes covering all possible pedestrian access control scenarios
- The SLB series is equipped with bi-directional throughput feature, made especially for quick access control in areas with high traffic but limited space

Drive



Functionality

Brushless DC motor based drive with worm gear box ,encoder & Sensor Controlled Passageway with automatic swing doors

SLB series supports bidirectional controlled throughput of pedestrian & handicapped person/material movement without increasing the width of the cabinet

Design

SLB series design is aesthetically pleasing and it does not alter the passage width. 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 is 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 flap doors.

Visual Indication

SLB series is armed with swing doors coalesce with illuminating LED effect & lane indicators on the top panel; 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

1. SLB Housing & base columns comes in Matt finish & mirror finish (optional at extra cost)
2. Rotor Arm is made up of AISI304 Stainless steel (2.0 mm) tube, mirror finish (Dia- 20mm).
3. Swing Doors comes in Acrylic material (18mm (-2mm))



Access Control Integration

1. Electrical control for both entry and exit operation are standard.
2. It can be controlled by any third party access control systems SLB series gives client ability of choosing either pulse or potential control mode for correct operation of swing gate barrier with any access control systems. In both control mode the swing gate barrier is operated by input of the control signal to the connector block
3. In case of power failure SLB 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 SLB doors open automatically.
4. In case of emergency SLB 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 , SLB is provided with a lever to open the swing doors mechanically (Optional at extra cost)

Configuration

- SLB Series is a modular product . It can be installed as a single or a multi lane array of SLB-100-1's can be combined with SLB-100-2's (For pedestrian with reduced mobility)

Note SLB-100-1 is Standard Lane
SLB-100-2 is Wide Lane



Dimension Formula

Array SLB-100-1 Combined with SLB-100-2

Total No of Boxes= No Of Lane + 1

Dimension of Array= (Total No of Boxes *200)+(650* No of standard lane)+(900*No of wide lane)



Control Mechanism

- Powerful DC Brushless motor ensuring low maintenance & long life. Worm gear box (1:20) is provided which ensures
- Controller ensures progressive accelerations & gradual decelerations for safe movement without vibrations.
- Encoder is incorporated to control the position & speed of the swing doors with precision. Exact centering alignment & opening of swing doors is achieved by using rotary Encoders (resolution of 0.5 Degree).



Interface

SLB series is controlled via the CLB (Control Logic Board) placed inside the SLB 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 SLB 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

Power Failure / Fire Alarm

- SLB series can be configured either fail safe or fail lock mode. Internal Battery Backup is provided .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 incase of emergency . Once the power is back or it stops receiving signal the door will retract outwards automatically .

Adjunct accessories

- SLB series can be equipped with Sensors to detect Tailgating.
- SLB series can be equipped with Sensors to detect crawling jumping over the box & rotor arms.

Work To Be provided by Client

Power supply & Cables

Access control systems & cables

Possible masonry & Cable Trench



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.



Shipping List

- | | | |
|----------------------------|---------|--------|
| • SLB (series) | Housing | 2 Nos |
| • Interconnecting cables-1 | 20 core | 1 Nos |
| • Product manual | | 1 Nos |
| • Foundation Bolts | | 10 Nos |



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.

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It is to be carried out by a skilled installer only and in strict accordance with the manufacturer's instruction (supplied with the SLB) and installation drawings.

- Warranty of product would not cover service calls after improper installation.



- 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.

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)	90 Kg
Passage is electronically controlled in both directions by a high density matrix of at least 12 sensors.	They provide safe & secure passage for children & pedestrian with trolleys

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)
SLB-100/S	650	X	1050	985	1080	1350	200	265
SLB-200/S	900	✓	1300	985	1080	1350	200	265



After Sales Service



Tele: +91-253-2491504/816/423

E-mail: sales@sivanandaelectronics.com



After Hour Service



On Site Servicing

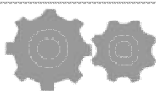
Manufacturer

Manufacturers: subject to compliance with requirements, provide products by one of the following:

1. M\S Sivananda Electronics, Deepak Mahal, Lam road, Deolali, Pin-422401, Nasik, Maharashtra, India.

Tele: +91-253-2491504/816/423

[Homepage: www.sivanandaelectronics.com](http://www.sivanandaelectronics.com)



Preventive Service Management Schedules



Comprehensive Annual Maintenance Contract

Demo Video

<https://www.youtube.com/watch?v=ANdOwCa6SDc>