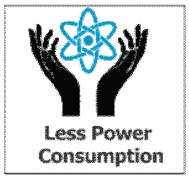
Sivananda Electronics

Sliding Type Full Height Flap Barrier

For pedestrian , people with reduced mobility & service personnel



Sailient Traits

- Full Height Flap Barrier comes armed with Brushless DC motor this ensures low maintenance & long life.
- Prudent & luxurious design that fits with any type of prestigious entry hall.
- Height of the sliding door restricts jumping and crawling
- Sliding doors for quick opening & closing
- It can be enhanced with tailgating feature
- 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
- Comfortable passage
- It can be easily integrated with wide variety of access control system
- Variety of attractive design for single & multiple installation are available.
- Full Height flap barrier 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 motor combined with crank-and-rod linkage ensuring perfect mechanical locking in both extreme positions.

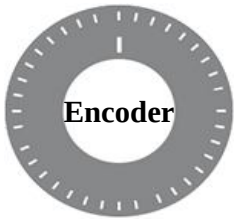
Design

- Full height flap barrier 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 sliding flap doors.

Worm Gear Box

- Wormshafts are made of steel and are case hardened to 58-60HRC and profile ground.
- The thread grinding in the gear ratios that the module value permits is carried out with ZI-Profile. This improves the contact between toothed surfaces and therefore performance and reduces operating noise.
- To guarantee long life, ball bearings of reputed make used.
- Gearboxes are filled with synthetic oil grade ISO VG 320 which is virtually maintenance free and does not require oil change.

Encoder



- Exact centering alignment and opening of barriers achieved through the use of Absolute 10 bit Rotary Encoders with the resolution of 0.5 Degree
- This is an absolute rotary encoder, it mainly convert angle of divided 360 degree to digital code then output digital code according to rotation axis of position

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*

- It can be armed with sliding 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 slide doors turn GREEN. For unauthorized, tailgating & wrong entry it turns RED.

Functionality

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

Material

- Sliding type flap barrier 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 / glass

Access Control Integration

- Electrical control for both entry and exit operation are standard.
- It can be controlled by any third party access control systems It 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

Control Mechanism

- Powerful DC Brushless motor ensuring low maintenance & lasting.
- Controller ensures for safe movement without vibrations.

Interface

- It is controlled via the CLB (Control Logic Board) placed inside the 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 flap barrier at the fire alarm command or from emergency unblocking button;
  - Pre-set 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

- In case of emergency, flap doors will be opened and will remain open till emergency signal persists. Once emergency vanishes flaps will be closed automatically.
- In case of power failure, flap doors will be opened with battery backup. Once the power is restored flap door will be closed again.

Work To Be provided by Client

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

Shipping List

• Sliding Flap Barrier Housing		2 Nos
• Interconnecting cables-2	3core	1 Nos
	14 core	1 Nos
• Product manual		1 Nos
• Foundation Bolts		10 Nos

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 product) & 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 dispatch, whichever is earlier. This warranty excludes normal wear on finishes or damage that occurs due to abuse or misuse.

Standard Technical Specification

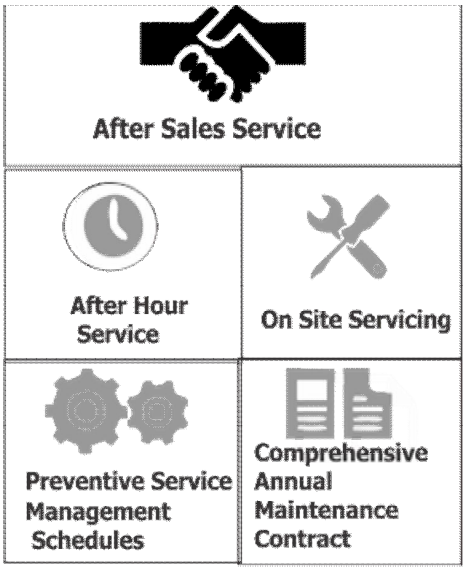
Power Supply	230 V AC
Control Circuit	24 V DC
Nominal Consumption	75W (Peak-100 W)
Capacity / Minute	15-20 persons
Ambient Operating Temperature	0° to +50° C
IR safety sensor	They provide safe & secure passage for Pedestrian with reduced mobility & pedestrian

Dimensions & Specifications

Model	Passage Width (mm)	Disabled Access	Overall Width (mm) (1Lane)	Door Wing Height (mm)	Unit Height (mm)	Unit Length (mm)	Unit Width (mm) / Ground Clearance Flap (mm)
Full Height Sliding Flap	520	√	1160	1200	1100	1300	320mm / 200mm

Note *The above models are available in Staninless steel (Matt & Mirror Finish) and Mild steel(Msingle coat black color/RAL7035 finished powder coating). Cost will vary according to the material opted by the client.*

* ***TG*** *Tail Gating Feature*



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Manufacturer

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