



**SIVANANDA  
ELECTRONICS**

## **Retractable Flap Barrier ( OVAL- Series)**

**For pedestrian , people with reduced mobility & service personnel**



### **Sailient Traits**

- Oval 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
- Oval 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 Oval 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

- Oval 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

- Oval 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

- Oval 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 / Glass (if required) (18mm or 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 Oval 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 Oval 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 , Oval 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

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

## 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       |
|--------------|--------|---------------|--------------|------------|
| <b>Mode1</b> | Closed | ✓             | Ψ Controlled | Controlled |
| <b>Mode2</b> | Closed | ✓             | Free         | ⌚ Free     |
| <b>Mode3</b> | Closed | ✓             | Controlled   | Free       |
| <b>Mode4</b> | Closed | X             | Controlled   | N.A        |
| <b>Mode5</b> | 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

- Oval 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 incase of emergency . Once the power is back or it stops receiving signal the door will retract outwards automatically .

#### Adjunct accessories

- Oval 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

|                                      |                                                              |
|--------------------------------------|--------------------------------------------------------------|
| <b>Power Supply</b>                  | 230 V AC                                                     |
| <b>Control Circuit</b>               | 24 V DC                                                      |
| <b>Nominal Consumption</b>           | 75W ( Peak-100 W)                                            |
| <b>Capacity /Minute</b>              | 20-25 persons irrespective of reader                         |
| <b>Ambient Operating Temperature</b> | 0° to +50° C                                                 |
| <b>Net weight (approx 1 Lane )</b>   |                                                              |
| <b>IR safety sensor</b>              | 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-1TG-OL / RB-1STG-OL | 520                | X               | 305                | 900                   | 1025             | 1220             | 300             | 100                        |

**Note** The above models are available in Staninless 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

#### Manufacturer

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

1. M\S Sivananda Electronics, Deepak Mahal, Lam road, Deolali, Nasik,Maharashtra,

Pin-422401, India. Tele: +91-253-2491504/816/423

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