



# RETRACTABLE FLAP BARRIER

Model RB-1 / RB-1S, RB-2 / RB-2S



(For Handicapped person also)

An ISO 9001:2000 Company



Sivananda Electronics has maintained its leadership in the field of entrance control solution for over 20 years through its Research & Development work. We have supplied more than 5000 turnstiles throughout India including Defense, Nuclear power plants, Oil refineries, amusement park, film city, IT Parks, BPOs, etc. Our product range in entrance control solutions include Tripod, Half height,  $\frac{3}{4}$  Height, Full Height dual /single Lane, Clearstile, Boom barrier, P type swing gate etc. Now we present the new generation of pedestrian access control: Retractable Flap barrier.

The RB-1 / RB-2 retractable barrier has been developed to provide a user-friendly access control with high throughput & good aesthetic look for higher security applications where a visual/physical barrier is required. The RB-1/2 provide a solution to the common problems faced by the modern business environment, such as quick access for staff & visitors, while protecting assets, information & personnel from the danger of unauthorized entry, in an aesthetic environment.

RB-1/2 consists of two or more adjacent housings with a barrier panel to create high-speed pedestrian walkways. Further housings (with two barrier panel & electronics back to back in one housing called as inter lane) may be inserted to increase the number of lanes of access. The RB-1/2 is truly bi-directional. The barrier panel react with a valid card read & retract inside the housings (inc normally closed applications). In normally open mode of application flaps are always open (Optional).

Siva inbuilt micro-controller based controller offers Opto-isolated inputs & outputs for interfacing with external devices & is compatible with all types of access control readers, card based, biometric etc.

Retractable flap barrier product range:

Retractable Flap barrier is available in single lane & multiple lane (either even or odd) configuration as per site requirements.

Two housings (end column) with retractable flap make one lane of access. One housing (inter lane) with two flaps back to back is used in between the end columns to increase the number of lanes. Combination of pedestrians and handicapped lane can be provided as per requirement.

## Features:

- Opening time: 0.5 second for RB-1
- Drive systems incorporate highly reliable torque controlled DC Servo motor or Torque Motor
- Passage clearance 520 or 900 mm
- High throughput
- Optical beams for safety movements
- Bi-directional control
- CE Approved
- Close mode of operation / Normally Open (optional)
- Ensures rapid, efficient & safe access control.
- Opto-isolated inputs & outputs for interfacing external device.

## Applications:

Entrance & exit points in corporate offices, manufacturing units, amusement park, where controlled access is essential but both aesthetics & pedestrian throughput is major concern.

Typical installations sites:

Zoos / Park, Corporate houses, Shopping Mall, Railway stations, Airports, Sports Complex, Museums, BPO / Call Centers, IT Parks.

## Models:

RB-1/RB-1S for pedestrian access control system with passage clearance of 520 mm in mild steel/stainless steel cabinet without tailgate detection. RB-1TG/RB-1STG are with tailgate detection feature.

RB-2/RB-2S for handicapped access control system with passage clearance of 900 mm in mild steel powder coated / stainless steel cabinet. RB-2TG/RB-2STG are with tailgate detection feature.

Modes of operation Normally closed / Normally open

### Technology:

The drive mechanism incorporates a torque controlled DC Servo motor using latest PWM technology to keep pace with upcoming technologies with almost 100% duty cycle & operating on single arm against retractable barrier. This produces a speed controlled motion. In the even of power failure panels can be specified to remain closed (Fail Locked mode) OR Open ( Fail Safe mode). The retractable barrier can be operated in normally closed or open mode (Optional). Additional IR sensors are provided for tailgate feature.

### Safety:

The optical beam installed in the housings close to the retractable panels will inhibit the closing of the panel while the person is in the area of these panels, therefore the injury to a person is nearly impossible.

### Housing & Barrier:

The housing is made of heavy-gauge Mild Steel sheet metal (Model RB-1 / RB-2) & epoxy powder coated with dark grey, Siemens grey. Optional colors are also available on request if required. Stainless Steel housings (Model RB-1S / RB-2S) are also available in 304 grade with Mat/Mirror finish. The retractable flap barrier is made from 18/19 MM opaque (clear is optional) acrylic or polycarbonate (optional)

### Installation:

Housing is fixed to a structural floor & will not require support from sidewalls or ceilings. Fixing is normally by means of expanding bolts (Anchor bolts) into structural concrete base.

### Integration:

Retractable Flap barrier can be easily integrated with Proximity Reader, Smart Reader, Finger Print Reader based biometrics or any other Access Control system.

### Options:

Lane Indication, tailgate detection etc.

### Conformity:

The Retractable Flap barrier Model RB-1/ RB-2 conforms with the applicable EU directives. It meets the requirements of the following standards

Safety Standards: EN 61010-1:03:94+ A2:07:95; IEC 1010-1:09.90 + A1:09:92 + A2:07:95 (for Electrical safety)

EMC Standards: EN 61326 (for Emission & Immunity)

### Technical Data

| Parameter                                | Unit | RB- 1/S | RB- 2/S |
|--|------|---------|---------|
| <b>Without tailgate detection system</b> |      |         |         |
| Opening/closing time                     | S    | 0.50    | 1.0     |
| Protection                               | IP   | 54      | 54      |
| Voltage                                  | V AC | 230     | 230     |
| Current                                  | A    | 1       | 1       |
| Frequency                                | Hz   | 50      | 50      |
| Duty cycle                               | %    | 100     | 100     |
| Length                                   | MM   | 640     | 640     |
| Width                                    | MM   | 300     | 490     |
| Height                                   | MM   | 1000    | 1000    |

### With tailgate detection System (Dimension)

|        |    | RB-1TG | RB-2TG |
|--------|----|--------|--------|
| Length | MM | 1100   | 1100   |
| Width  | MM | 300    | 490    |
| Height | MM | 1000   | 1000   |



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