

## RevoSec RVS

### Manual Turnstile for Internal Installation

#### Technical Specification

**Unit Dimensions:** Outside Diameter 1500mm and 1600mm  
Ceiling Height 2100mm  
Cornice Depth 320mm  
Overall Height of Unit 2420mm

**Rotor Elements:** RVS90 4N<sup>o</sup> rotor wings  
RVS120 3N<sup>o</sup> rotor wings

**Drive:** Hand operated

**Orientation:** Pass Left or Pass right

**Materials:** Casework: 304 Grade grained stainless steel (EN10088-2 Grade 1G/2G)  
8.2mm thick clear laminated glass infill panels.  
Ceiling: Painted MDF - Standard White RAL 9010  
Rotor Wings: 10mm thick clear toughened frameless safety glass.  
Rotor Spindle: Tubular 304 Grade grained stainless steel (EN10088-2 Grade 1G/2G) with patch fittings

**Function:** Passage in both directions, electronically controllable.

**Mechanism:** Control of the RevoSec operation is achieved by an electro-mechanical head mechanism located in the roof drum of the RevSec. It is silent in rotation and comprises the following standard features:

- A positive action lock which prevents two passages at one time
- A Self centering mechanism to ensure complete rotation of the head to the reset position.
- An anti backup device prevents reverse rotation once the head has moved 30<sup>o</sup> from its rest position.
- A hydraulic damper to ensure smooth and quiet operation

**Operating Modes:** The mechanism can be configured to operate in two standard modes.

- Normally Closed – The mechanism is locked until a valid authorisation signal is received.
- Normally Open – The mechanism is permanently unlocked and will only lock if passage is attempted without a valid authorised signal. In this mode the MTBF is increased from 1.5 to 2.5 million cycles and increases passage throughput speeds.

**Power Failure:** In the event of an emergency or isolation of power supply, unit may be configured to fail-safe i.e. rotor freely rotates or fail-lock i.e. rotor locks. Either option is available in both or one direction. Choice must be denoted at time of order placement.

Fire Alarm - Input facility available for voltage free contact supplied by others to effect fail safe.

Note - Head mechanism fail state will be the same as power failure choice.

**Interface:** The mechanism is controlled by means of a LCM02 microprocessor control logic with the following features :-

- One input for opening/locking the mechanism in each direction.
- Two protected outputs for control of the opening/locking solenoids.
- Four protected outputs for piloting way mode indicators.
- Two 0V output relays indicating availability of use in either direction.
- Two 0V outputs to count passage in either direction.

Unit has an adjustable time out facility if required i.e. Go signal will be cancelled if passage through turnstile is not completed within pre-set time. The standard default is 8 seconds adjustable via parameter change.

The logic is protected against short circuits, overloads, and polarity inversion. Additional detailed information is available upon request.



#### Product Description

The premium model RevoSec RVS is an alternative approach to providing an effective deterrent barrier, giving the client complete freedom of choice of construction materials, allowing integration into any environment.

#### Users include

- Government
- Retail
- Finance
- Telecommunications
- Information Technology
- Banking
- Publishing
- Leisure
- Petrochemical
- Pharmaceutical
- Education



- Security:** To prevent passage via the "Dead Area" a sensor is fitted in the turnstile ceiling to detect fraudulent use. The door will lock and then release in this direction via a cornice mounted keyswitch.
- Downlights:** Are fitted as standard
- Servicing:** Via hatches in the walkway ceiling and/or from overhead
- Power Supply:** 115/230 Volts AC 5/60 Hz
- Power Rating:** 110VA
- Logic Voltage:** 24 Volt DC
- Installation Details:** RevoSec RVS models are delivered as a partly assembled kit of parts, which may require lifting gear for off loading.  
Approx. weight 500 kg. depending on spec.

## Models Available

### RevoSec Manual Turnstile for Internal Installation

- Model RVS 90 1500 or 1600mm dia. with 10mm thick toughened frameless safety glass (IR detection)
- Model RVS 120 1500 or 1600mm dia. with 10mm thick toughened frameless safety glass (IR detection)
- Model RVS 90FP 1500 or 1600mm dia. with Framed Glass Rotor c/w brush strips. (IR detection)
- Model RVS 120FP 1500 or 1600 mm dia. with Framed Glass Rotor c/w brush strips. (IR detection)
- Model RVS 90SL 1500 or 1600mm dia. with Slatted Rotor & Stator Bars (Non IR detection)
- Model RVS 120SL 1500 or 1600mm dia. with Slatted Rotor & Stator Bars (Non IR detection)

## Accessories and Optional Extras

### Alternative Materials, Finishes and Custom Design

- Refer to Gunnebo Mayor for specific material design requirements.
- Alternative Epoxy Powder Coating RAL colours.
- Tinted glass.
- 11.4mm 3 ply anti bandit laminate glass / polycarbonate / glass.
- Solid infill panels to replace glazed panels in the drum
- Increase in Cornice height.

### Cardreader Mounting (Please refer to Gunnebo Mayor for feasibility)

- Integration of customer supplied readers onto the RVS casework uprights.
- Cardreader Pedestals.

### Status Lights

- LED Red Cross and Green Arrow displays

### Battery Back Up

- Maintains all 24 volts control facilities for 500 operations or 4 hours whichever the sooner.

### Push Button Control

- Simple console to control RevoSec rotor release.
- Remote console to specific requirements.
- Casework mounted push button.
- Cardreader Mounting Pedestals.

### Additional Interface

- RS 485 Serial Interface

### Counting

- LCD Counter
- Electro-mechanical Counter

### Floor Mat

- Dimpled rubber mat with a straight threshold strip between the upright members on both sides.

## Installation Examples



**Flow Rates**

<b>Reader Device</b>	<b>Number per minute</b>
Insertion type	12
Insertion type with PIN code keypad	7.5
Swipe type	15
Swipe type with PIN code keypad	8.5
Proximity 'Hands Free'	17

- Please note the figures are approximate and must be confirmed with Gunnebo Mayor Ltd. Figures quoted are for one person per complete passage per walkway and per minute. It is assumed the access control authorisation response is instantaneous. Flow rates will increase with multiple passage use.

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*Note: In pursuit of its policy of continuous refinement and improvement, Gunnebo Mayor Ltd. reserves the right to modify design and details.*

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