RotaSec FOS

Manual Full-Height Turnstile for External Installation

RotaSec FOS is a robust, trouble-free full-height turnstile. Constructed as a mono-block and self-supporting, the unit is easily installed. FOS AT91 is ideal for applications requiring high performance at a convenient price. The AT91 model offers a painted finish RAL 7032 RILSAN™ and has an anti-corrosion coating with stainless steel rotor bars and column.

FOS 91 is ideal for situations where design and full stainless steel construction are important.

Both models are available in single and double-interlocking layout configurations, for installations where space is an issue.

Passage in both directions is electronically controlled.

The RotaSec offers a standard electro-mechanical head able to prevent two passages at one time, equipped with damper for a silent mechanism and smooth operation.

In the event of an emergency or power-off scenario, the unit can be configured fail-safe i.e. rotor freely rotates or fail-lock i.e. rotor locks. This option is available either in one or both directions of passage.
RotaSec FOS

Technical Specifications

Drive
Hand operated. Logic Voltage 24Vac

Materials
Casework (AT91 / 91): 360 B steel RILSAN™ corrosion proofing treated
Standard RAL 7032 / 304 grade stainless steel
Rotor Wings (AT91 / 91): 304 grade stainless steel
Rotor Spindle (AT91 / 91): 304 stainless steel

Mechanism
Electro-mechanical head mechanism:
• Positive action lock to prevent two passages at a time
• Self-centring mechanism to ensure complete rotation in the rest position
• Anti backup device to prevent reverse rotation once the head moved 30° from rest position
• Hydraulic damper to ensure a smooth and quiet operation

Power Failure / Fire Alarm
In the event of a power failure the rotor wings will remain locked in the fail-lock configuration or can freely rotate in the fail-safe configuration. Fail-lock or fail-safe configuration is available in one or both directions and must be specified at time of order placement. Note that head mechanism fail state will be the same as power failure choice. Input facility available for voltage-free contact to effect fire alarm fail state (COM R1 interface required).

Interface
LCM02 microprocessor control logic:
• One input for opening/locking the mechanism in one direction
• Two protected outputs for control of the opening/locking solenoids
• Four protected outputs for piloting way mode indicators
• Two OV output relays indicating availability of use in either direction
• Two OV outputs to count passage in either direction
• Adjustable time out via parameter change: i.e. Go signal is cancelled if the passage is not completed within a pre-set time (standard default 8sec)

MODELS
• FOS AT91 S
• FOS AT91 DI
• FOS 91 S
• FOS 91 DI

OPTIONS
• Card reader integration
• Switching interface COMR1
• Serial interface RS485
• Remote console
• Internal lighting for FOS 91
• Extra canopy for FOS 91
• Battery back-up for FOS 91

BENEFITS
• Robust design
• Easy to install
• Equipped with damper for silent mechanism and smooth operation

APPLICATIONS
• Government
• Retail
• Finance
• Telecommunications
• IT
• Banking
• Publishing
• Leisure
• Petrochemical
• Education...

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<table>
<thead>
<tr>
<th>TECHNICAL DATA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>See details on next page</td>
</tr>
<tr>
<td>Power Supply</td>
<td>230Vac 50 Hz or 115Vac 60 Hz</td>
</tr>
<tr>
<td>Power Rating</td>
<td>50VA, 50 + 50VA for Double unit</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to +45°C (RH 95% not condensing)</td>
</tr>
<tr>
<td>IP rating / MCBF / MTTR</td>
<td>IP 34 / 1.5M cycles / less than 30 min</td>
</tr>
<tr>
<td>Flow Rates (approximate figures)</td>
<td></td>
</tr>
<tr>
<td>Insertion Type Reader</td>
<td>12 passages per minute</td>
</tr>
<tr>
<td>Swipe Type Reader</td>
<td>15 passages per minute</td>
</tr>
<tr>
<td>Proximity Reader: “Hands Free”</td>
<td>17 passages per minute</td>
</tr>
</tbody>
</table>

**RotaSec FOS**
RotaSec FOS

SITE PREPARATION: FOS AT91 Single and Double Interlocking Units

Product is delivered fully assembled and requires lifting equipment. Approx. weight: 450Kg and 710Kg for Double. (For installation details, please refer to the installation manual).

Concrete Base to specification at least fck (cube) 300N/mm² of resistance.
Base to be flat and level to +/- 5mm over footprint area.
Dimensions to be > 1800 x 1800 (2400 for Double) x 150 deep min. (units in mm).
Concrete Base to specification at least fck (cube) 300N/mm² of resistance.
Base to be flat and level to +/- 5mm over footprint area.
Dimensions to be > 1800 x 1800 (2400 for Double) x 150 deep min. (units in mm).

SITE PREPARATION: FOS 91 Single and Double Interlocking Units

Product is delivered fully assembled and requires lifting equipment.
Approx. weight: 480Kg and 750Kg for Double. (For installation details, please refer to the installation manual).

RotaSec FOS 91S

RotaSec FOS 91D

6 anchor holes for TPSEI M10 bolts x 125mm deep min.
(drilled during installation)

Cable entry zone

Cable entry zone
RotaSec FOS

IMPORTANT

- Any horizontal pipe or conduit running below the RotaSec FOS Turnstile must be at least 140mm below FFL.
- Metal conduit for cables should be raised at least 50mm from foundation.
- It is the customer’s responsibility to ensure the structural integrity and strength of the installation location.
- The dimensions given in this Product Data Sheet are for information only. In order to prepare the installation site, please refer to your usual Gunnebo Customer Service contact.

CONDITION OF USE

When using Gunnebo’s security access control gates, for security and safety reasons, children must be supervised by an adult at all times.

Note: In pursuit of its policy of continuous refinement and improvement, Gunnebo Entrance Control reserves the right to modify design and details at any time and without notice.