Gunnebo RotaSec

BA/EV Series

Full-Height Turnstile for External Installation

GUNNEBO®

Full-Height Turnstile for External Installation

Hand-operated electromechanical head, silent and smooth rotation

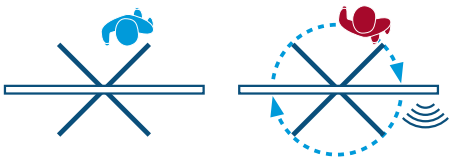
Innovative as flexible concept design. Aesthetic and robust design available with three (120°) or four (90°) rotor elements, delivered fully assembled or in a kit form. The range includes both the BA (basic) frame and the EV (evolution) full side frame versions in painted or stainless steel finish, alongside customisation and options.

Applications include Petrochemical, Construction Sites, Stadia, Ports & Harbours, Government Buildings, Embassies...

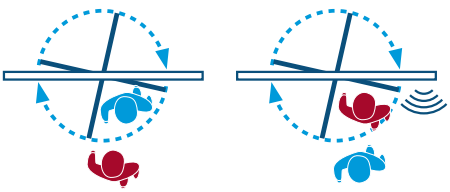
Security Features

Fraud Detection through sophisticated and proven algorithm

Leave aisle timeout
ITC (option)
Anti-crawling barrier
Anti-pass back barrier
Anti-reverse rotation during transit
Self-centring to reset position
Action lock preventing two passages at one time



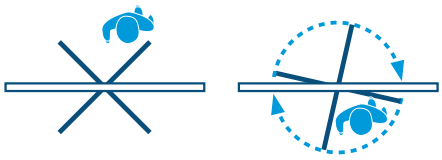
Improper Transit Confirmation (ITC)



Wrong way and intrusion detection

Mode of Operation

Passage in one or both directions electronically controlled.



On receiving a signal from the access control system or remote control, the mechanism unlocks and the arms can be pushed to pass through the gate in the authorised direction. It prevents two passages at one time, and if an unauthorised person attempts to enter from the opposite direction, the in-built locking mechanism stops any attempt to reverse the rotation.

Illuminated symbols

Steady light=Normal use. Flashing light=Alarm conditions.

The pictogram and traffic lights LED symbols, optional on request, indicate the status of the gate.

Green Arrow
Steady: Authorised use or designated free passage. Proceed through the unit.
Flashing: Emergency/Fire exit. (Not suitable for escape or rescue routes)

Red Cross
Steady: Unit in use or no passage. Passage not authorised.
Flashing: Alarm, fraudulent condition or technical alarm.

An optional 50mm diameter LED display pictogram with illuminated symbols integrated into the reader box is available

Safety Features

Manually operated arms
Anti-heel safety rubber, for Interlocking 90° version
Logic voltage 24 Vac
Voltage free contact input for Fire Alarm fail state
Anti-pinching design construction
Fail-Safe (default) i.e. rotor freely rotates in power off scenario (Fail-Lock available on request)

For security and safety reasons children must be supervised by an adult at all times in the vicinity of an active lane. Any child being escorted through the lane must always precede the accompanying adult during passage.

Finishes

BA and EV versions share the same innovative rotor in 304 stainless steel, push bars 38mm diameter. BA and EV are available in painted and stainless steel finishes. Standard colour grey RAL 7004 (corrosion protection, electrophoresis and powder painted). Canopy (option) in aluminium frame and transparent or solid polycarbonate infill with stainless steel interface to connect to the main structure.

Standard finishes for Rotor: Stainless steel 304 grade (316 option).

Standard finishes for Frame: Corrosion-protection painted grey or stainless steel 304 (316 option).

Design/Construction

Available versions are the BA simple side frame, and the EV full side frame construction. Available as:

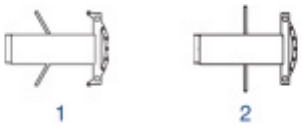
Single: 120° or 90°
Double Interlocking rotor: 120° or 90°

The interlocking version provides a compact two-lane layout. 120 rotor passage way 692mm (ready opening min. 761) and 90 rotor passage 692mm (ready opening min. 547). Passage height 2100mm.

In order to create a lane it is necessary to use one Single unit. Additional lanes are obtained by using more Single lanes next to each other. Two lanes are built-in for the Interlocking version for a reduced footprint.

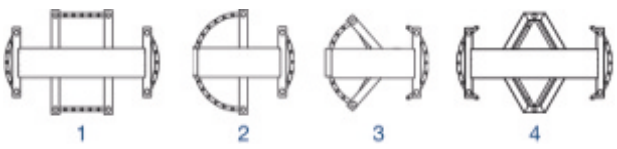
1. Canopy (option). **2.** Passage way side frame.
3. Position for LED way Pictogram (option) and reader integration (option).
4. Rotor column with horizontal arms. **5.** Stator bar frame.
6. Roof housing head mechanism and logic.

BA side frame



1. Single 120. **2.** Single 90.

EV side frame



1. Double Interlocking 90. **2.** Single 90. **3.** Single 120. **4.** Double Interlocking 120.

Options & Accessories

Alternative finishes and materials	Card reader integration
Fully assembled or kit form	Remote control systems
Pictogram	Smooth and silent damping mechanism
Damped head mechanism	Improper Transit Control (ITC)
Canopy (aluminium frame)	Heating kit -10°C
Down light	Base Plate
Status light	

Access Specifications

Flow rates by type of reader[1]

Insertion type	Swipe type	Proximity type
12 Passages per minute	15 Passages per minute	17 Passages per minute

1. Approximate figures.

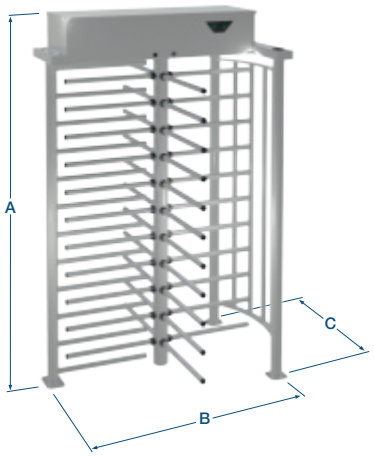
Emergency egress functionality implemented as standard.

Free rotation on fire alarm signal. In a power off scenario, not available if requested as Fail-Lock.

Electrical Data & Conditions of Use

Power Supply	Power Rating[2]	Power Rating[2]	Battery Back-up	Fire Signal	Operating Temperature	IP Rating	Noise Level
230Vac 50Hz[1]	50VA Single	50+50VA Double Interlocking	N/A	Input for voltage free contact	-5°C to +50°C RH 95% No condensing	IP44	Less than 55dB[3]

1. 115Vac 60Hz also available on demand. 2. Additional 40VA per lane with optional down lights. 3. Note: Average background noise in office environment is 50-55dB



Dimensions & Weights

	Passage Height	Passage Width Entry (middle)	A Cabinet Height[1]	B Cabinet Length[2]	C Cabinet Width[3]	Weight (kg)[4]
Single Lane 120 BA	2100	761 (692)	2393	1603	1157	243
Single Lane 90 BA	2100	559 (692)	2393	1603	1317	249
Single Lane 120 EV	2100	799 (692)	2393	1603	1492	359
Single Lane 90 EV	2100	547 (692)	2393	1603	1654	379
Double Interlocking Lane 120	2100	2 x 850 (692)	2393	2442	1576	452
Double Interlocking Lane 90	2100	2 x 547 (692)	2393	2442	1654	577

Dimensions in (mm). Weight net (kg). Might require lifting equipment. For details refer to installation detail drawings.
1. 2515mm with Canopy Option. An additional 8mm must be considered with Base Plate option. 2. 1645mm with Canopy Option for Single unit, 2488mm with Canopy option for Double Interlocking unit. 3. 1855mm with Canopy Option. 4. For Single unit, add 105kg for Base Plate and 61kg for Canopy options. For Double interlocking unit, add 257kg for Base Plate and 80kg for Canopy option.

Installation & Maintenance

Product Delivery	Application	Site Preparation[1]	Cabling & Conduits[2]	Control Board Location	Systems Integration[5]	Systems Integration[5]	Mainte-nance Access	MTTR[3]	MCBF[4]
Kit form (fully assembled as option)	Outdoor	Flat & level finished floor +/- 5mm	Through the ground	In the roof	12 digital interface I/O RS485	Settings program-mable via parameters	Through the roof accessible from the passage way	Less than 30 minutes	3 million

1. Bolting depth MIN 100mm, concrete MIN fckcube30N/mm^2 resistance, MIN 1800 x 1800 (2400 for interlocking) x 150mm deep. 2. Running MIN 140mm below finished floor level, should rise MIN 50mm from foundation. 3. Mean time To Repair. 4. Mean Cycle Between Failure. 5. Potential free contact for card reader input. New Electronic Platform with in-built RS485 and COMR1 switching interface.

It is the customer's responsibility to ensure the structural integrity and strength of the installation location.

Data provided is for information only, please refer to your usual Gunnebo Customer Service contact in order to prepare the installation site.

Gunnebo RotaSec

RotaSec_BA_EV_1.1_EN

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