

## ClearSec G

### Internal and External Full Height Security Turnstile

**Rotor Elements:** G90 4N<sup>o</sup>  
G120 3N<sup>o</sup>

**Drive:** Hand operated

**Orientation:** Pass Left or Pass Right

**Materials:**

Casework:	304 Grade Grained Stainless Steel. (EN10088-2 Grade 1G/2G)
Glass Infills:	6.4mm 3 ply Laminated Glass Panels
Turnstile Roof:	304 Grade grained stainless steel. (EN10088-2 Grade 1G/2G)
Rotor Arms:	316 Grade Satin Polished Stainless Steel (EN10088-2 Grade 1K/2K).
Rotor Column:	100mm dia. Mild Steel Painted Black Polyester Powder Coated

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

**Head Mechanism:** Control of the Turnstile operation is achieved by an Electro-mechanical head mechanism and is silent in operation. It comprises:-

- 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 an 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

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



#### Product Description

ClearSec is an alternative approach to full height security from our Control range of products for internal or external use.

Choice of materials allows complete integration into any environment and 90 or a 120 degree rotor for easier entry.

#### Users include

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

**Control**



- Status Lights:** 50mm diameter LED display Status Lights flush mounted within the ClearSec uprights. The Green badge symbol is continuously illuminated indicating passage is available. Upon authorisation a Green Arrow will illuminate in the direction of passage authorisation whilst in the opposite direction a Red cross symbol will illuminate to indicate the unit is not available for use or is already in use..
- Walkway Lights:** A 24 volt halogen walkway downlight is included as standard, which will be illuminated continuously.
- 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.
- Power Supply:** 115/230 Volts AC 5/60 Hz
- Power Rating:** N/C – Standby or Passage 50Va (Alarm Condition 50Va)  
N/O – Standby or Passage 5Va (Alarm Condition 50 Va)
- Logic Voltage:** 24 Volt DC
- Installation Details:** ClearSec G models are delivered as a partly assembled kit of parts, which may require lifting gear for off loading.
- Approx. weight 400 kg. depending on spec.

## Models Available

### ClearSec G – Internal/External full Height Security Turnstile

- G90/G120 Rotor - 316 stainless steel straight type arms and a black finished mild steel rotor column.
- G90SL/G120 SL Rotor - 20mm thick acrylic slats with textured mid and bottom slats and black painted mild steel stator bars.
- G90FP/G120FP Rotor - Full length 9.5mm thick solid polycarbonate panel for internal use only.

**Important Note** - *The Full length solid polycarbonate rotor panels should only be supplied as fail-safe to prevent trapping of pedestrians in the "dead" area during power failure. If fail lock is specified the written agreement of the customer to this configuration must be obtained before the ClearSec G is supplied by Gunnebo Mayor.*

### Accessories and Optional Extras

#### Alternative Materials and Finishes

- Casework finished with polyester powder coated semi-gloss paint.
- Casework manufactured from 316 grade stainless steel EN10088-2 Grade IK/2K
- Tinted Glass.
- Other Glazing types.
- Grained Stainless Steel clad infill panels to replace standard glazed panels.
- Demountable roof fascia panels enabling access for reduced ceiling clearance of minimum 200mm.

#### Card Reader Mounting

- Readers can be surface mounted on casework upright.
- Card Reader Mounting Pedestals.

#### Battery Back Up

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

#### Push Button Control

- Simple remote console to house ClearSec pushbutton overrides.
- Remote console to specific requirements.
- Casework mounted pushbutton.

#### Additional Interface

- RS 485 Serial Interface.

## 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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