

## CLEARTECH FH

## Full Height Glass Turnstiles

for indoor applications

CLEARTECH FH range of electro-mechanical glass full-height turnstiles feature elegant and transparent design whilst ensuring reliable unmanned pedestrian access control where pedestrians enter or exit restricted areas in a building.

The CLEARTECH FH Glass full height turnstiles provide electronically bi-directional access, available in either fail-safe or fail-lock locking configurations in the event of a power failure or emergency.

### AVAILABLE CONFIGURATIONS

- CLEARTECH FHS - Single 3-Leaf Glass Full Height Turnstile
- CLEARTECH FHD - Double 3-Leaf Glass Full Height Turnstile



### Typical areas of application include:

Banking and Financial Institutions | Commercial Buildings | Education | Government Sites | Leisure & Entertainment | Recreational Areas | Stadia & Sport Arenas | Transport & Logistics

Alltech Vehicle Barriers & Turnstiles Solutions also feature:

Boom and Spike Barriers | Bollards | Fast Folding Gates | Road and Rated Wedge Blockers | Half Height Turnstiles | Tripod Turnstiles | Revolving Doors | Security Booths | Special Needs Access Gates

FIND OUT MORE ON [www.alltechbygunnebo.com](http://www.alltechbygunnebo.com)

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## ELECTRICAL DATA & CONDITIONS OF USE

|                          |                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| POWER                    | <ul style="list-style-type: none"> <li>Power Supply: 220Vac 50Hz / 110Vac 50Hz</li> <li>Power Consumption: 35W (CLEARTECH FHS) / 70W (CLEARTECH FHD)</li> </ul> |
| LOGIC / SOLENOID VOLTAGE | <ul style="list-style-type: none"> <li>24VDC</li> </ul>                                                                                                         |
| FIRE SIGNAL              | <ul style="list-style-type: none"> <li>Input for voltage free contact</li> </ul>                                                                                |
| OPERATING TEMPERATURES   | <ul style="list-style-type: none"> <li>-10°C to +55°C</li> <li>RH 95% no condensing</li> </ul>                                                                  |
| EMC COMPLIANCE           | <ul style="list-style-type: none"> <li>According to CE</li> </ul>                                                                                               |

## SYSTEMS INTEGRATION & ACCESS SPECIFICATIONS

|                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LOGIC                                                         | <ul style="list-style-type: none"> <li>PLC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SYSTEMS INTEGRATION                                           | <ul style="list-style-type: none"> <li>Integrates with any access control and time &amp; attendance systems with 0 voltage input</li> <li>0V inputs provided for entry and exit directions of passage</li> <li>0V latching input provided for control of both simultaneous and individual entry and exit direction</li> <li>0V outputs provided for complete transaction counting in both entry and exit directions</li> <li>Mechanical key switch override for locking / unlocking each direction of passage</li> </ul> |
| FLOW RATES<br><i>Dependent on access control installation</i> | <ul style="list-style-type: none"> <li>Insertion Type Reader: 12 passages / mn</li> <li>Swipe Type Reader: 15 passages / mn</li> <li>Proximity Type Reader: 18 passages / mn</li> </ul>                                                                                                                                                                                                                                                                                                                                  |
| DISABLED ACCESS                                               | <ul style="list-style-type: none"> <li>N/A. Only available in combination with a full height pedestrian access gate. See Alltech PEDTECH product</li> </ul>                                                                                                                                                                                                                                                                                                                                                              |
| EMERGENCY EGRESS                                              | <ul style="list-style-type: none"> <li>In the event of power failure or fire alarm, the turnstile 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. <i>Choice to be specified at time of order placement</i></li> </ul>                                                                                                                                                                                                       |

## INSTALLATION & MAINTENANCE

|                                          |                                                                                                                                                   |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| PRODUCT DELIVERY                         | <ul style="list-style-type: none"> <li>Fully assembled or in a kit form on request. Choice to be specified at time of order placement.</li> </ul> |
| SITE PREPARATION                         | <ul style="list-style-type: none"> <li>Flat and leveled finished floor +/- 5mm</li> </ul>                                                         |
| CABLING & CONDUITS                       | <ul style="list-style-type: none"> <li>Trough the ground</li> </ul>                                                                               |
| LOGIC ACCESS                             | <ul style="list-style-type: none"> <li>Housed into overhead canopy</li> </ul>                                                                     |
| MAINTENANCE ACCESS                       | <ul style="list-style-type: none"> <li>Overhead canopy access</li> </ul>                                                                          |
| MTTR   <i>Mean Time To Repair</i>        | <ul style="list-style-type: none"> <li>Approx. 20mn</li> </ul>                                                                                    |
| MCBF   <i>Mean Cycle Between Failure</i> | <ul style="list-style-type: none"> <li>5 Million</li> </ul>                                                                                       |

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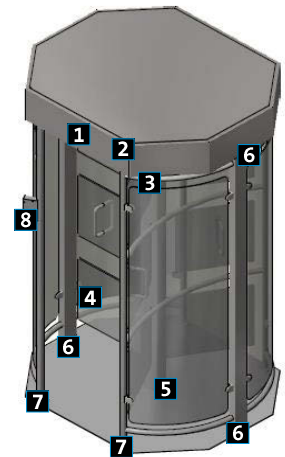
## MECHANICAL AND DESIGN OPTIONS

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ROTATION MECHANISM</b>    | <ul style="list-style-type: none"> <li>▪ Electronically controlled bi-directional</li> <li>▪ Mechanically controlled uni-directional via key override</li> <li>▪ Free rotation</li> </ul>                                                                                                                                                                                                                                                             |
| <b>LOCKING</b>               | <ul style="list-style-type: none"> <li>▪ Fail-lock* auto-lock in the event of a power failure</li> <li>▪ Fail-safe* auto-unlock in the event of a power failure</li> </ul> <p><i>* In the event of power failure or fire alarm, the turnstile 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 to be specified at time of order placement.</i></p> |
| <b>MATERIAL &amp; FINISH</b> | <ul style="list-style-type: none"> <li>▪ Brushed 304 stainless steel. Suitable for corrosive environment applications with adequate cleaning program</li> <li>▪ 3 Leaf rotor slats of 10mm toughened glass with stainless steel handles</li> </ul>                                                                                                                                                                                                    |
| <b>ACCESSORIES</b>           | <ul style="list-style-type: none"> <li>▪ Access control reader mounting brackets available in various dimensions (standard H145 x W85 x D40mm)</li> <li>▪ Single / dual push button (supplied turnstile mounted or non-mounted)</li> </ul>                                                                                                                                                                                                            |

## PRODUCT OVERVIEW

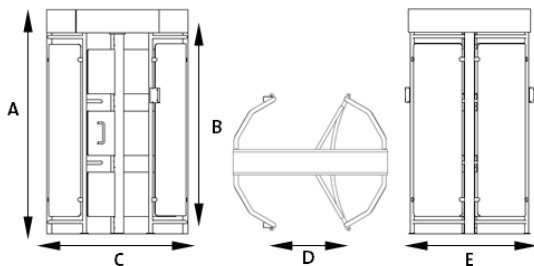
### INDEX KEY

- |                                                        |                                                  |
|--------------------------------------------------------|--------------------------------------------------|
| <b>1</b> Electro-mechanical head system                | <b>5</b> Base bearing                            |
| <b>2</b> Overhead canopy                               | <b>6</b> Wiring entry points                     |
| <b>3</b> Mechanical key overrides                      | <b>7</b> Floor and wall bolting points           |
| <b>4</b> Rotor slats of 10mm thickness toughened glass | <b>8</b> Access control reader mounting position |

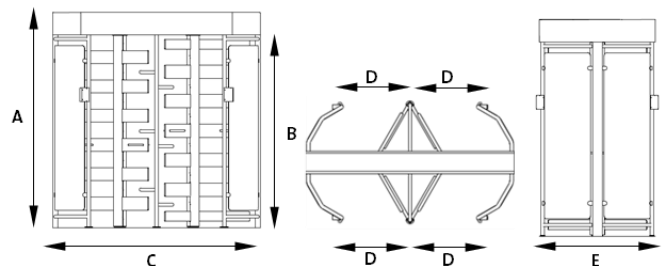


| DIMENSIONS & WEIGHTS       | CLEARTECH FHS | CLEARTECH FHD |
|----------------------------|---------------|---------------|
| <b>A: OVERALL HEIGHT</b>   | 2220mm        |               |
| <b>B: HEIGHT CLEARANCE</b> | 1990mm        |               |
| <b>C: OVERALL WIDTH</b>    | 1400mm        | 2150mm        |
| <b>D: WALKWAY WIDTH</b>    | 560mm         | 700mm         |
| <b>E: TOTAL LENGTH</b>     | 1200mm        | 1200mm        |
| <b>NET WEIGHT</b>          | 314kg         | 630kg         |

CLEARTECH FHS



CLEARTECH FHD



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**ALLTECH**  
VEHICLE BARRIERS & TURNSTILES SOLUTIONS

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## ALLTECH RELIABILITY

Picking the optimum entrance control solution is a process based on close cooperation with our customers – all the way from **needs analysis**, **production**, to **implementation** and **service**

### From Analysis to Proposal

- Needs analysis forms the basis of a tailored proposal
- Specified both for the overall solution and for individual areas of the site
- Fully compliant with all local regulations

### Installation, Testing, Training

- Monitoring and implementing every installation
- Completion programme of functional reliability checks to ensure the equipment is safe
- Documenting each stage of the installation process
- Initiating start-up phase whilst focusing on training of relevant staff

### Operation and Maintenance

- Initiating procedures for operation and maintenance
- Offering adequate Maintenance Plans or Service Level Agreements

With Alltech, a brand of the Gunnebo Security Group,  
a safe and reliable entrance control system is ready for round-the-clock use.



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