



Description

Integrating the specific expertise that **Automatic Systems** has acquired in the public transport sector, the TGH810 high-security automatic gate ensures rapid, efficient and safe dissuasive access control of users.

Its particularly elaborate design makes it easily adaptable to any type of architectural environment.

All materials used have been carefully selected for their resistance, endurance and safety qualities, the fruit of Automatic Systems' engineering experience accumulated over nearly 40 years.

The TGH810 automatic gate consists of three main elements: a central element integrating the principal functions of physical access control, and two end sections that form the walkway and integrate the anti-fraud control and the chosen access control system (ticket reader, badge reader, etc.). The obstacles retract completely so as not to hinder the passage of the user.

Its wide corridor facilitates the passage of less able people, wheelchairs, carriages and other cumbersome objects. The housings can be installed singly or in multiple units, in which case it will be necessary to define left-hand, right-hand and intermediate gates. They can also be integrated with the TGH800, which is the narrow passage version.

1. **Rigid self-supporting frame:** integrates an electromechanical drive for each movable obstacle, presence detection, users' passage safety sensor and electronic control units.
2. **Panels** in brushed 304L stainless steel. The panels are closed by two flush-mounted security locks.
3. **Extension elements** in brushed 304L stainless steel on a steel frame. These end sections integrate the users' passage control system (badge reader, ticket scanner, etc.). The user is guided by the dynamic orientation pictogram, reinforced by the vertical light bar.
4. **Retractable glass leaves:** clear railway-quality Securit safety glass leaves retract into the housing for each opening movement. Each leaf is 12mm thick, height from floor is 1800mm. Silicone rubber edge strip profile for user safety.
5. **Anti-intrusion obstacle:** also in clear railway-quality Securit safety glass, to close off the space above each housing. Fitted with safety photocells (see here under).
6. **Security photocells:** ensure the control of the users' passage through the gate.
7. **Safety photocells:** ensures safety of passage between the movable obstacles.
8. **Adjustable base:** each housing is fixed to the floor with an adjustable steel frame, which facilitates alignment and levelling during installation.
9. **Motor and control unit:**
 - The TGH's **programmable control unit** comprises:
 - the general connection terminal block,
 - the 24VDC power supply,
 - the programmable logic controller (PLC),
 - the variable speed controller (VSC).
 - **Motorisation** realised thanks to an asynchronous motor driven by the VSC, based on the position of the obstacle, ensures rapid movements with progressive acceleration and deceleration at the end of travel. A crank-and-rod linkage transmits the drive to the obstacle, giving intrinsic mechanical locking in the open and closed positions. In case of power failure or obstruction, the obstacles will open automatically.

Anti-corrosion treatment

All mechanical parts are treated against corrosion by electrozinc plating, in conformity with the RoHS directive.

Technical characteristics

Electrical power supply	230V single-phase + GND, 50/60 Hz (10A) (do not connect to a floating network or to high impedance earthed industrial distribution network)
Geared motor	0.12kW.
Torque limiter	Electronic.
Speed reduction gearbox	Reversible type, lubricated for life.
Speed adjustment	Via variable speed controller.
Nominal power consumption	250W per walkway.
Operating temperature	-10° to + 50°C.
Relative Humidity	90% max, without condensation.
Opening time	0.7 – 1.5s (after authorisation), programmable locally or remotely
Closing time	0.8 – 1.5s, programmable locally or remotely.
Impact resistance (housing)	IK09
MCBF (Mean Cycles Between Failure)	2.5 millions cycles, when respecting the prescribed instructions.
MTTR (Mean Time To Repair)	< 30 min
IP43 .	

Options

- Housing panels in 316L stainless steel.
- Obstacles heights of 1200 and 1400 mm.
- Adaptation of the end units of the housing to accommodate client's access control equipment.
- Adaptations for working down to -20° C.
- Sand-blasted logo on the fixed and/or mobile obstacles.
- Ethernet or RS485 communication modules allowing connection with the supervision systems (controls, alarms and maintenance information).
- Remote control desk with tactile display unit.

Work to be provided by the customer

- Electrical power supply and connection wiring.
- Possible masonry work.

Installation principle

An access walkway has a left and a right gate, each consisting of a half obstacle leaf and operating simultaneously. To install a series of several access walkways, all that is needed is to place one or more intermediate units each with 2 half obstacle leaves and operating simultaneously with the other half obstacle leaf of the controlled access walkway.

Standard dimensions (mm)

