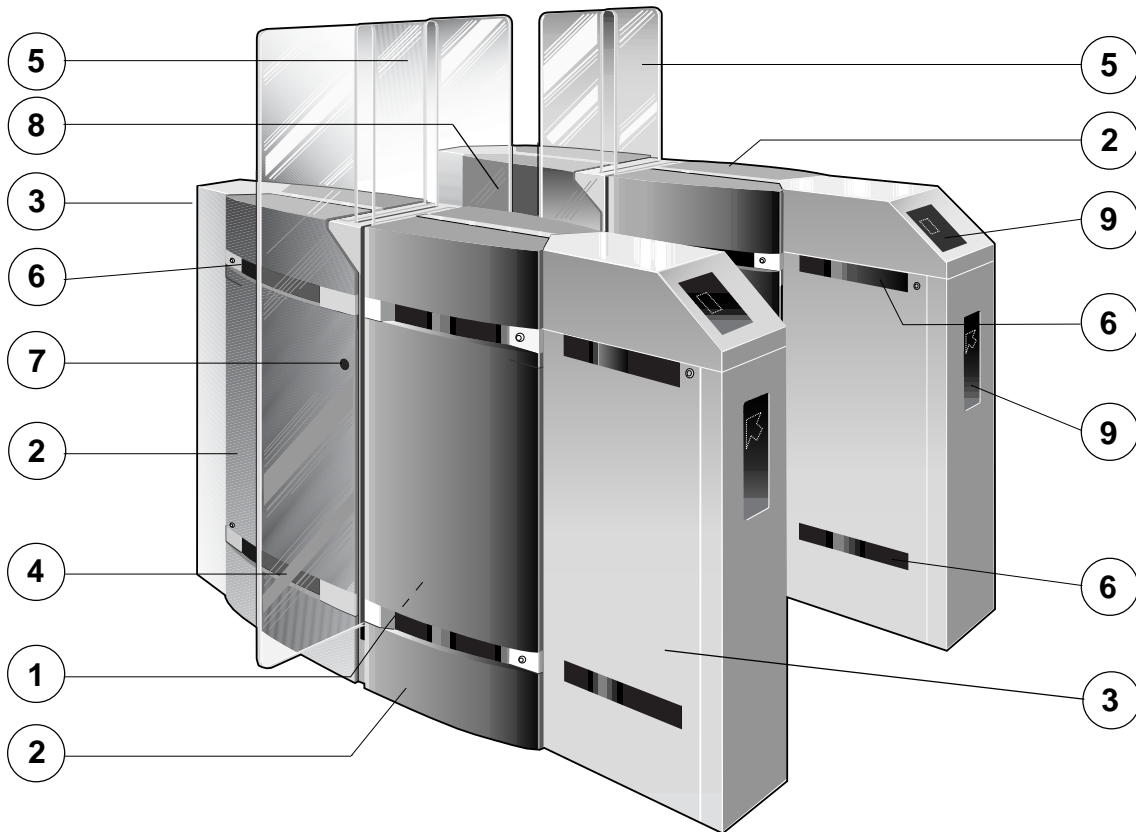


# PNG381 «HIGH SECURITY» AUTOMATIC GATE

CE



The PNG381 high security gate was developed to ensure rapid, efficient and safe antifraud control of users in one determined passage direction. Dissuasive access control is ensured in the opposite direction. Different operation modes and numerous options allow the PNG to operate with a high degree of reliability while meeting the highest safety requirements in force in the heavy-traffic private or public pedestrian access control sector.

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 result of Automatic Systems' engineering experience accumulated for many years in the public transport sector.

The PNG381 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. The longest section can be customised to the type of reading selected and the antifraud protection degree required.

## DESCRIPTION

1. Central element made up of a high rigidity self-supporting frame that integrates an electromechanical drive for each movable obstacle, presence detection, users' passage safety sensors and electronic control units.

2. Lateral moulded, tinted composite panels.

(3 standard colours available: RAL 5018 turquoise blue - RAL3007 black red and RAL5020, ocean blue. Other RAL colours as an option). These hinge-mounted panels can be opened to an angle of 90° to allow easy access to the electromechanical drive and to the electronic control units. Each lateral panel is closed by security locks. The various sub-assemblies are of the quick connection type. Motorisation is achieved by asynchronous motor through variable speed controller that ensures rapid movements with progressive braking. Movement is achieved through a crankshaft-rod device.

A safety torque limiter ensures users' safety by immediately stopping the obstacles in case of accidental contact. An anti-panic opening device is provided to open the obstacles automatically in case of power failure.

3. Front and rear end sections made of 1.5mm thick AISI304 stainless steel sheet, brushed finish. These end sections delimit the total length of each walkway. The longer «rack type» section (antifraud control direction) integrates the users' passage control system (badge or ticket reader, etc.). The shorter section (in the dissuasive direction), can optionally integrate an orientation pictogram and/or a badge reader (please, contact factory for maximum authorised sizes).

Specifications subject to change without prior notice.

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**PNG381 «HIGH SECURITY»  
AUTOMATIC GATE**

**TECHNICAL DATA N° 2-4206**

**Automatic Systems** 

BELGIUM - FRANCE - ITALY - SPAIN - UK - CANADA - USA

4. 12mm thick, clear tinted safety glass leaf that slides into the housing at each opening movement.  
Leaf height from floor (standard): 1700mm.
5. Clear tinted anti-intrusion safety toughened glass leaf located above the gate's central element between two access walkways, to provide a full width screen to improve security.
6. A series of 12 photoelectric sensors are spread along the length of the passage walkway and ensure users' control and directional detection.
7. Five sensors among the series of 12 ensure safety of passage between the movable obstacles.
8. The electronic unit that controls the PNG includes:
  - a general connection block
  - 24V DC power supply
  - a programmable logic controller
  - a variable speed controller
8. Orientation and/or information displays can be provided in one or two passage directions, optional.

**ANTI-CORROSION TREATMENT**

All mechanical parts are treated against corrosion by electrozinc dichromate and/or cataphoresis, thickness 15µm.

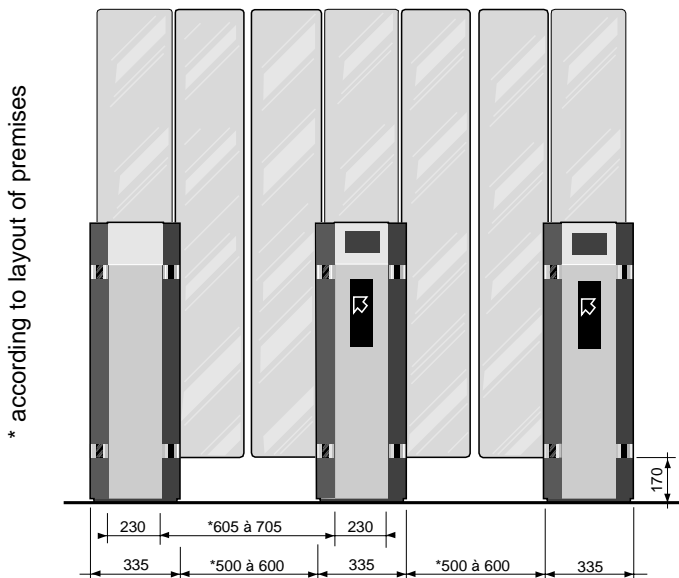
**NOTE: The PNG381 complies with the Machinery, Low Voltage and EMC directives according to the standards «EN 60204-1», «EN 60950», «EN 50081-1» and «EN 50082-2». This has been certified by CEBEC, the internationally recognized certification body. The PNG381 has been registered with the certification number 11170.**

The Machinery and Low Voltage directives refer to all the precautions to be taken when designing a product for the users' safety. The EMC directive deals with the interactions between electrical appliances and intends to guarantee the proper operation against interferences, overvoltage, lightning effects as well as electromagnetic disruptions.

**TECHNICAL CHARACTERISTICS**

- Electrical power supply: 230V single-phase, 50/60Hz.
- Geared motor: 0.12kW.
- Torque limiter: electronic
- Speed reduction gearbox: reversible type, life-lubricated.
- Speed adjustment: achieved through electronic variable speed controller.
- Power consumption: at rest: 120W per walkway  
in operation: 250W per walkway.
- Operating temperature: 0° to +50°C.

**OVERALL DIMENSIONS**



- Net weight: outer gate (left or right type) : 185kg.  
intermediate gate: 235 kg.
- Overall dimensions: see below.
- Opening/closing time: programmable between 0.3 and 1.7 second.

**OPTIONS**

- User orientation display (see technical data n° 3-0001).
- User information display (see technical data n° 3-0001).
- Protective rubber strip on the movable leaves' inner edge.
- Various heights for leaves, up to 1900mm.
- Front and rear end sections customised to integrate a special access control system (ticket system or badge reader).
- Out-of-standard RAL colour for polyester panels (reference number to be supplied with order).
- Stainless steel 304 lateral panels instead of polyester panels.
- Remote control desk

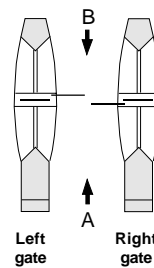
**WORK NOT INCLUDED**

- 230V single-phase power supply + earth, 50/60 Hz, 10A.
- Electrical power supply and connection wiring (see installation plan n° CH3527).
- Masonry work.

**INSTALLATION PATTERN**

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 between them and operating simultaneously with the other half obstacle leaf of the controlled access walkway (see below).

**1 ACCESS WALKWAY**



**2 ACCESS WALKWAYS**

