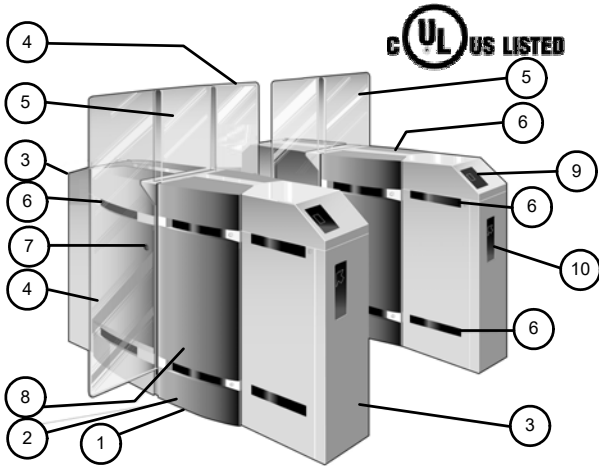


# PNG391H "HIGH SECURITY" OPTICAL PORTAL



For illustration only. May differ from real product.

## OPTICAL PORTALS:

The Model 391H Optical Portal is designed and manufactured by Automatic Systems. This unique patented pedestrian access portal installed in conjunction with any access control system provides a maximum degree of entrance security, at the same time accommodating the Handicapped. While achieving **ADA compliance**, the 391H portal is designed to provide optimum pedestrian throughput, in an elegant, sophisticated and discreet manner, which is essential for today's corporate environment.

## SECURITY:

The Model 391H utilizes retractable security panels, which are both safe and unobtrusive to the authorized user. However, by utilizing the full height panel option, 391H portals do provide an insurmountable obstacle to an un-authorized user. The 391H unit adds additional blocking and tracking sensors to the entrance (un-secured) side of the portal, which significantly improves the Anti-tailgating detection capabilities. Both audio and visual alarms assist security personnel in monitoring access.

## THROUGHPUT:

A programmable logic controller allows the 391H Optical Portals to fully integrate with other systems. In addition, the 391H and the standard 381 maximum security portals can be configured to provide a seamless entrance design. As a result, it operates in numerous modes, thereby facilitating the passage of large numbers of authorized people, (including the handicapped), which is especially important during peak hours. The expected throughput range is 40 persons per minute, per lane.

## SAFETY:

Many necessary safety features are provided, including the emergency opening of security panels in the event of a power failure, fire alarm, or other emergency situations. Another important safety feature is the safety sensors, which prevent the retractable security panels from hitting users. Special sensors detect wheel chairs as they enter the portal for added safety. These optical portals are **UL 325 certified**.

**For safety reason, it is recommended to maintain children under constant supervision in the vicinity and while passing through the portal.**

## DESCRIPTION:

- Self supporting frame:** a highly rigid it is integrating the electromechanical assembly, which utilizes an advanced system of AC-motors with frequency drives, for each of the retractable security panels, presence detection, user's passage safety sensor and electronic control units.
- Side panels:** The hinge-mounted key-locked side panels are made of 14 gauge ANSI 304 stainless steel, #4 brushed finish. They can be opened to a 90° angle to allow easy access to both the electro-mechanical drive and to the electronic control units.
- Metallic end caps:** Front and rear end caps are made of 14 gauge ANSI 304 stainless steel, #4 brushed finish. These end sections integrate visual cueing devices, as well as the users' access control devices (badge, biometrics, ticket reader, etc.). Model 381 utilizes longer entrance end sections to accommodate additional sensors, which provide additional protection.
- Security glass panels:** The obstacles completely retract into the cabinet during each movement, utilizing specially designed safety finger guards. The panels are made of toughened glass. The nominal thickness of each panel is 0.472" [12 mm]. The standard height, measured from ground level, is 67" [1700mm] (38"3/16 [970mm] in option)
- Fix security panels:** Fix obstacle preventing gate body crossing when the security glass panels are closed. The panels are made of toughened glass. The nominal thickness of each panel is 0.472" [12 mm]. The standard height is 28.6" [700 mm]. No fix security glass panel used with security glass panels of 38"3/16 [970mm] high.
- Actuation and tracking sensors:** photoelectric sensors that ensure user presence and directional detection.
- Safety sensor:** photoelectric sensor ensures safety of passage between the security glass panels.
- Motor and control:** the electronic unit that controls the PNG includes:
  - a general connection block,
  - 24 V DC power supply,
  - a programmable logic controller (PLC),
  - a variable frequency speed controller.

Motorisation is achieved by asynchronous motor through variable frequency speed controller that controls torque and speed of the motor. This system ensures rapid movements with progressive acceleration and deceleration at the end of the race. A crankshaft-rod device is transmitting the motion to the glass panels.

This systems is equipped with a torque limiter that limit the impact force in case a user or an object are caught by the security glass panel, An anti-panic opening device to open the obstacles automatically in case of power failure is included.

Specifications subject to change without prior notice.

**ANTI-CORROSION TREATMENT:**

All internal mechanism parts and the self-supporting mechanical frame are zinc plated.

**TECHNICAL CHARACTERISTICS:**

- Electrical power supply: 120V single-phase.
- Frequency: 60Hz.
- Control logic: PLC
- Geared motor: 0.12kW (1/6 HP), AC, with auto lubricated and reversible speed reducer.
- Speed control : frequency drive
- Torque limiter: electronic.
- Power consumption:
  - o At rest = 115W per portal.
  - o Operation = 250W per portal.
- Operating temperature: 0°C to +50°C (32°F to 122°F)
- Net weight:
  - o Intermediate gate: 246 kg (540 lbs).
  - o Outer gate (left or right): 191 kg (420 lbs).
- Automatic opening device in case of power failure.
- Opening time: 0.7 second.
- Closing time: 0.8 second
- UL certified for safety.

**OPTIONS:**

- 38" 3/16 [970mm] high safety obstacles (from ground).
- Sandblasted logo on obstacles.
- Integration of customer readers.
- Nero Assoluto granite top (black).
- Gold 12 carats mirror finish (#8) housing.
- Surface installation ramp.

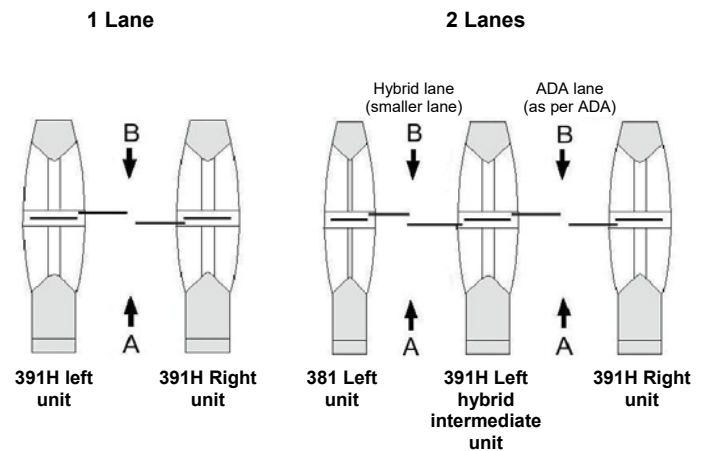
**OPERATION MODES:**

There are three operation modes:

- Controlled mode (card, ticket, biometry, etc.)
- Free pass mode
- Locked mode

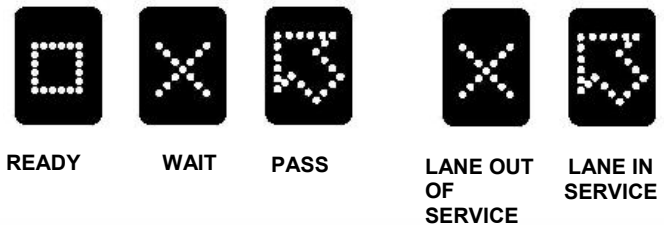
**INSTALLATION PATTERN:**

An access walkway has a left and a right gate, each consisting of a half obstacle panel 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 panels between them and operating simultaneously with the other half obstacle panel of the controlled access walkway (see below). It is also possible to install mixed walkway by adding a hybrid intermediate unit between a 391H unit and a 381 unit.

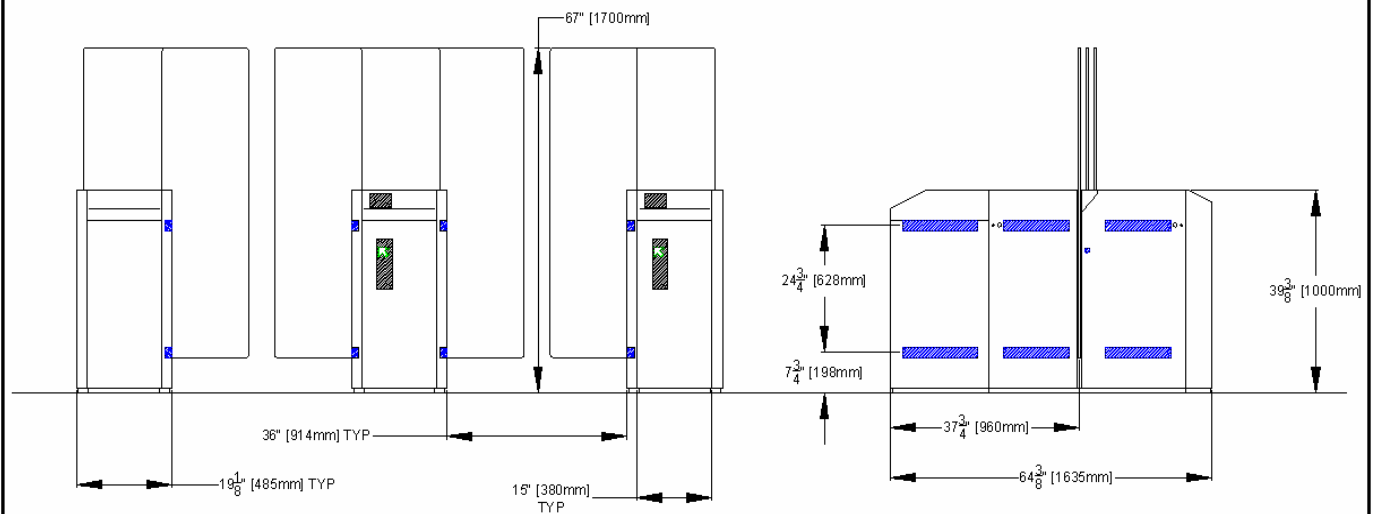


**FUNCTION PICTOGRAMS**

**ORIENTATION PICTOGRAMS**



**OVERALL DIMENSIONS :**



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