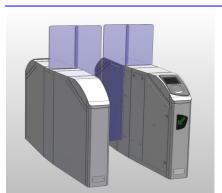
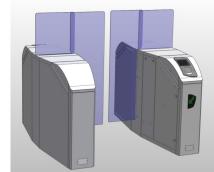
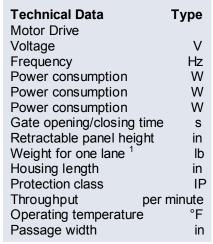
Info







Product description

The pedestrian barrier series type MPH (Magnetic Pedestrian High Door = a horizontally sliding access control and locking mechanism) is designed to control pedestrians entering or exiting restricted areas in medium to high security applications, usually under surveillance. It closes immediately after passage or after an adjustable time-out. The opening and closing times of the gate can be programmed differently, dependent on the size of the obstacles. The gates can be operated in normally closed mode for either single or bi-directional control.

Typical Fields of Applications

- Fare collection
- Public transport
- Commercial buildings
- Airports
- Sports Stadiums
- Museums
- Corporate entries
- Public facilities

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MPH 122 Standard Lane	
	MHTM®
	110-240
	50-60
maximum peak	120
typical	110
stand-by	100
typical	0.8-1.2
approximately	48", 60", 72"
approximately	550
approximately	79"
	32
	Up to 40
	-13 to +104
approximately	20.5"

Housing

The housing consists of several sheet metal modules that can be extended with intermediate parts to a user-defined line configuration. Various optional access control devices (such as card readers, etc.) can be easily accommodated on a stainless steel face panel located at each end segment of the pedestrian barrier. Gate End Displays (GED) consisting of a red cross and green arrow to indicate traffic direction are located at both ends of the barrier. The gate is finished in powder coated steel or in stainless steel and comes with protection class IP32 (others available upon request).

Motor Drive

The Magnetic High Torque Motor MHTM® is the key component of the patented direct drive system. No additional gear-box is required. It offers numerous benefits including nearly noise-free operation, small dynamic forces, impact

MAGNETIC AUTOCONTROL^{TV}

Pedestrian High Door Gate for Medium to High Security Access and AFC Applications

MPH 122

а

MPH 122 Wide Lane	
	MHTM®
	110-240
	50-60
maximum peak	320
typical	180
stand-by	80
typical	1.0-1.4
approximately	48", 60", 72"
approximately	705
approximately	79"
	32
	Up to 40
	-13 to +104
approximately	36"

detection, lowest abrasion and fastest opening / closing times. Low power is applied to the motor in the home position, therefore the heat dissipated prevents condensation and prolongs the lifetime of the motor. In combination with the MBC-110 logic controller, the system provides functional features that meet almost any application.

Fraud and Safety

Passengers travelling inside the gate are observed by 16 PE beams. They detect and prevent attempts to defraud such as intrusion, wrong-way and tailgating. In combination with the low impact forces, the PE beams provide a high safety level for patrons. To prevent attempts to force the doors open, they are mechanically blocked in the closed position. In case of power failure or emergency mode the doors are pulled open by springs.

¹ without obstacle / glass panel

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Motor Technology

MHTM® Pat. No. DE 103 53 366

The reliable maintenance free direct drive is virtually noise-free and consists of a MHTM $\mbox{\ensuremath{\mathbb{R}}}$ - "Magnetic High Torque Motor" with integrated resolver for precise positioning feedback. High output torque for fast acceleration and fast deceleration are one of the main features of this newly designed motor. With no power, the motor shaft can be freely rotated. As no gearbox or mechanical gear parts are necessary, there is no backlash and no wear.

The design lifetime of the MHTM® is in excess of 30 million cycles or a minimum of 10 years in a pedestrian gate application.

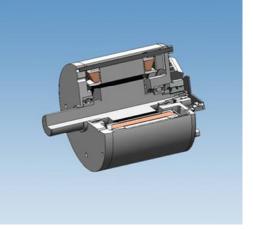
The Motor Controller MMC-120

The MMC-120 motor controller, using the latest DSP technology, allows very accurate control of the torque, speed, acceleration and deceleration parameters of the motor in any position. In combination with the resolver feedback, this results in a highly dynamic operation of the drive system. Thus, the system can react very fast in abnormal situations like detected impacts or attempts to force the retractable panels open.

Main features of the controller:

- CAN Bus interface for networking and software download
- 3 phase servo drive power end-stage
- Closed loop operation for precise positioning
- Ramping up and down configuration
- Fully adjustable speed
- Resolver input for position feedback
- LED indicators for operation and error diagnostics
- Dimensions: 8.7in (L) x 5.6in (W) x 2.4in (H)

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The Logic Controller MBC-110

The MBC-110 provides a high level of flexibility to fulfill customers requirements. It is able to control the operation of the gate either by commands received from one of the serial communication ports or by digital inputs and outputs.

Stand-alone operation:

The MBC-110 logic controller is in full control of processing a passage through the gate. Opening commands are received from external access control devices such as card readers, fingerprint readers, ticketing devices, etc..

Remote operation:

The MBC-110 logic controller provides gate status reports to an external Gate Master Controller, thus enabling the GMC to control and configure the system completely.

Main features of the controller:

- CAN Bus or serial interface for networking and download
- System can be extended
 via RS232 / RS422 / RS485 / CAN-Bus / I²C-Bus
- 9 digital inputs, 6 relay outputs, 4 MOSFET outputs
- LEDs and display for operation / error diagnostics
- DIP switches to select parameter settings
- Dimensions: 8.7in (L) x 7.3in (W) x 2.4in (H)

The Power Supply

The 110 - 240 V / 50 - 60 Hz power supply provides power for the motors and gate controllers.

Gate End Displays

The Gate End Displays are used to indicate independently for each direction whether a lane is open or closed for passengers. Two symbols can be displayed:

- Green arrow
- Red cross

Declaration of Conformity

The gate and controllers comply with the CE regulations. The gate can be supplied with UL certification and others on request.

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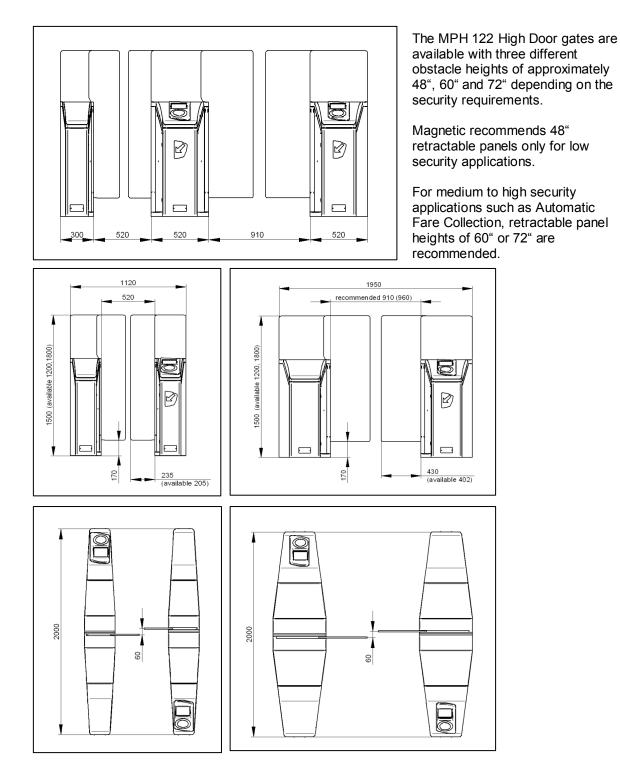








Mechanical Dimensions and Configurations



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