



Pedestrian Barriers Magstop Retractable

MPR 12
MPR 22

Technical Data:	Type	MPR12	MPR 22
Torque motor		SRW 1	SRW 1
Torque	Ncm	500	500
Open/ Closing Time	s	0,40	0,40
Protection	IP	54	54
Voltage	VAC	230	230
Frequency	Hz	50	50
Current	A	0,4	0,4
Duty Cycle	%	100	100
built-in thermal protection	C	100	100
Weight	kg	65	82
Length	mm	743	1500

Description

The MPR retractable panel barrier has been developed as a user friendly solution for the fast and controlled processing of pedestrians entering or exiting restricted areas, usually under surveillance, offering a typical throughput of up to 60 people per minute. A modular front panel concept allows for the adaptation of a large variety of ticket readers, for railway station use, as well as customised designs for all types of card readers for the security industry.

The retractable panels can be made from a variety of materials, with 20 mm clear acrylic as a standard, and a patterned surface as an option.

Typical Installations

- Railway platforms
- Airports
- Automated Immigration
- Sport stadiums
- Swimming Pools
- Museums
- Passenger terminals
- Factories

Housing

The housing is made from 2 mm zinc plated, phosphate coated, sheet metal and powder coated finished in RAL 7042 grey. Optional RAL colours are available if required. Stainless steel housings are also

available in either 304 or 316 grades, with a brushed finish. Access to the MUB Controller is provided through the removable front panel with a water-protected lock. The drive unit is mounted in the middle section of the housing. Both front panels have removable mounting plates for ease of installation of card readers or smart card aerals.

Technology

The drive system incorporates a Magnetic torque motor with a 100% duty cycle and constant torque output operating in conjunction with a single lever arm against the retractable panel. This produces a speed-controlled motion, and soft end position approach, with incorporated dynamic braking. The lever arm geometry can be adjusted to lock the panels in the closed position, or alternatively, to allow the panels to open after a specified force is applied. In the event of a power failure the panels may open automatically, but can be specified to remain closed if required for security reasons. Specified retractable barrier models can be operated in either normally open or normally close mode.

Features

The heart of the barrier is the torque motor that may be stalled in any position without being damaged. Limit switches and slip clutches are not required. This important feature eliminates initial setting up procedures and further maintenance of mechani-

cal slip clutches. In case of attempted vandalism, or too much pressure on the retractable wings, a burst power setting can be adjusted to protect the drive unit from damage. After such a situation, the retractable wing will automatically close again. This motor design provides a high level of safety, as constant torque output can be set low enough so as not to harm any person. The motor is continuously powered with a low current to provide a surrounding minimum temperature thereby providing prevention against condensation and corrosion in cold, wet or humid installation environments. It also holds the drive system at optimal operating temperatures. The complete drive unit is basically maintenance free and subsequently assures a very long operational life span.

Safety

The photoelectric beams installed in the housing close to the retractable wings will inhibit the closing of the wings whilst a person is in the closing area of these wings. The closing force of less than 150 Nm is well within the guidelines of concerned authorities, therefore the sustaining of any injury to a person is nearly impossible. Options further provide for the possibility of incorporating softer retractable panels.

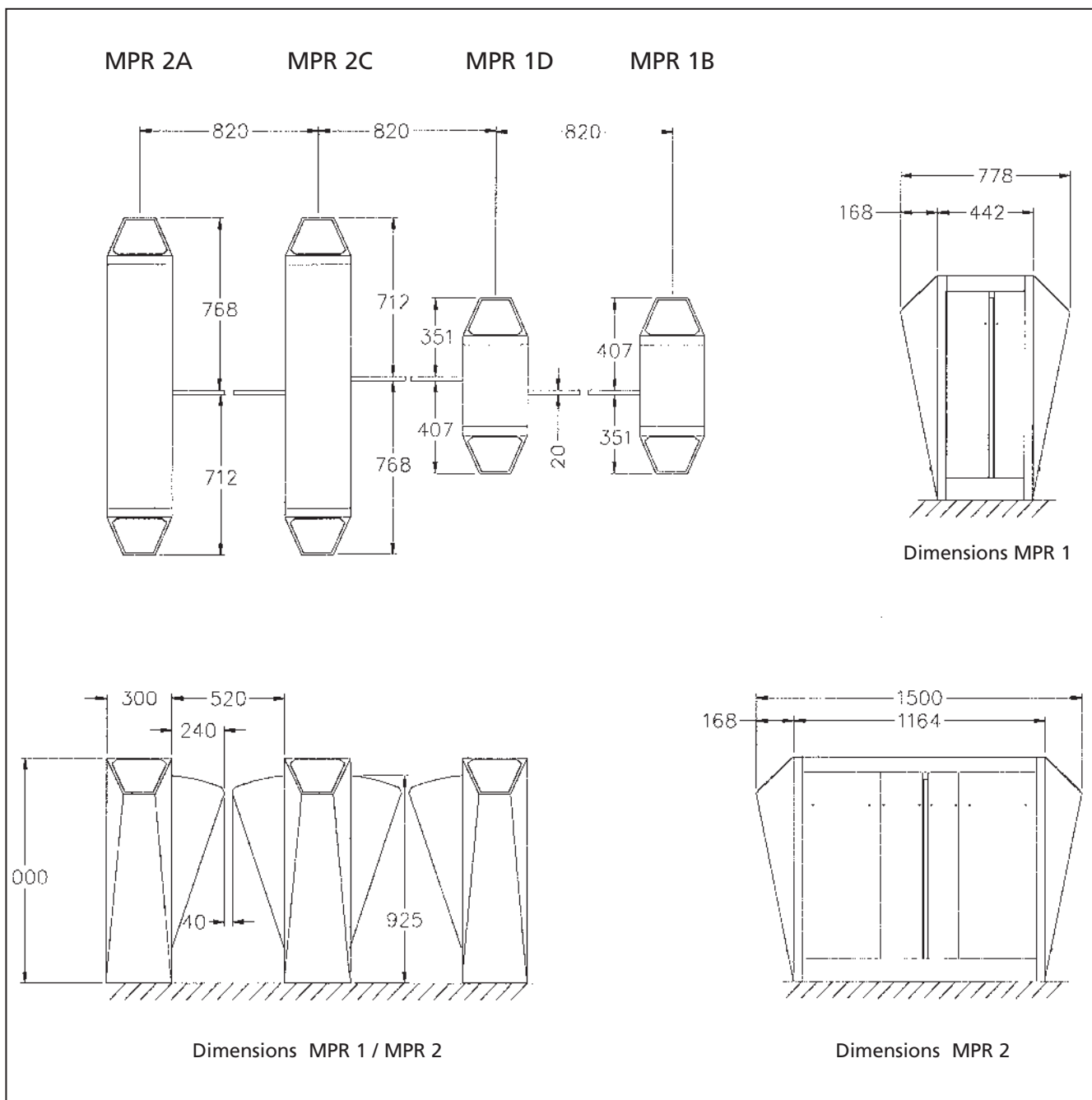
Options

Access control equipment integration, displays, side-access doors, additional photoelectric beams.

Controllers

The Magnetic MUB Controller offers selectable logic settings with LED status and power indicators. Opto isolated inputs and outputs for interfacing with external equipment. Solid state, instant reverse, zero volt switching through the output stage.

PLC's (Programmable Logic Controllers) can be used as an option for larger and more complex installations, especially where more sophisticated interfacing, or remote monitoring is required. The custom hardware and software will be designed according to operational requirements.





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Duty Cycle	%	100	100
built-in thermal protection	C	100	100
Weight	kg	65	82
Length	mm	743	1500

Description

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The retractable panels can be made from a variety of materials, with 20 mm clear acrylic as a standard, and a patterned surface as an option.

Typical Installations

- Railway platforms
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- Sport stadiums
- Swimming Pools
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Housing

The housing is made from 2 mm zinc plated, phosphate coated, sheet metal and powder coated finished in RAL 7042 grey. Optional RAL colours are available if required. Stainless steel housings are also

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Technology

The drive system incorporates a Magnetic torque motor with a 100% duty cycle and constant torque output operating in conjunction with a single lever arm against the retractable panel. This produces a speed-controlled motion, and soft end position approach, with incorporated dynamic braking. The lever arm geometry can be adjusted to lock the panels in the closed position, or alternatively, to allow the panels to open after a specified force is applied. In the event of a power failure the panels may open automatically, but can be specified to remain closed if required for security reasons. Specified retractable barrier models can be operated in either normally open or normally close mode.

Features

The heart of the barrier is the torque motor that may be stalled in any position without being damaged. Limit switches and slip clutches are not required. This important feature eliminates initial setting up procedures and further maintenance of mechani-

cal slip clutches. In case of attempted vandalism, or too much pressure on the retractable wings, a burst power setting can be adjusted to protect the drive unit from damage. After such a situation, the retractable wing will automatically close again. This motor design provides a high level of safety, as constant torque output can be set low enough so as not to harm any person. The motor is continuously powered with a low current to provide a surrounding minimum temperature thereby providing prevention against condensation and corrosion in cold, wet or humid installation environments. It also holds the drive system at optimal operating temperatures. The complete drive unit is basically maintenance free and subsequently assures a very long operational life span.

Safety

The photoelectric beams installed in the housing close to the retractable wings will inhibit the closing of the wings whilst a person is in the closing area of these wings. The closing force of less than 150 Nm is well within the guidelines of concerned authorities, therefore the sustaining of any injury to a person is nearly impossible. Options further provide for the possibility of incorporating softer retractable panels.

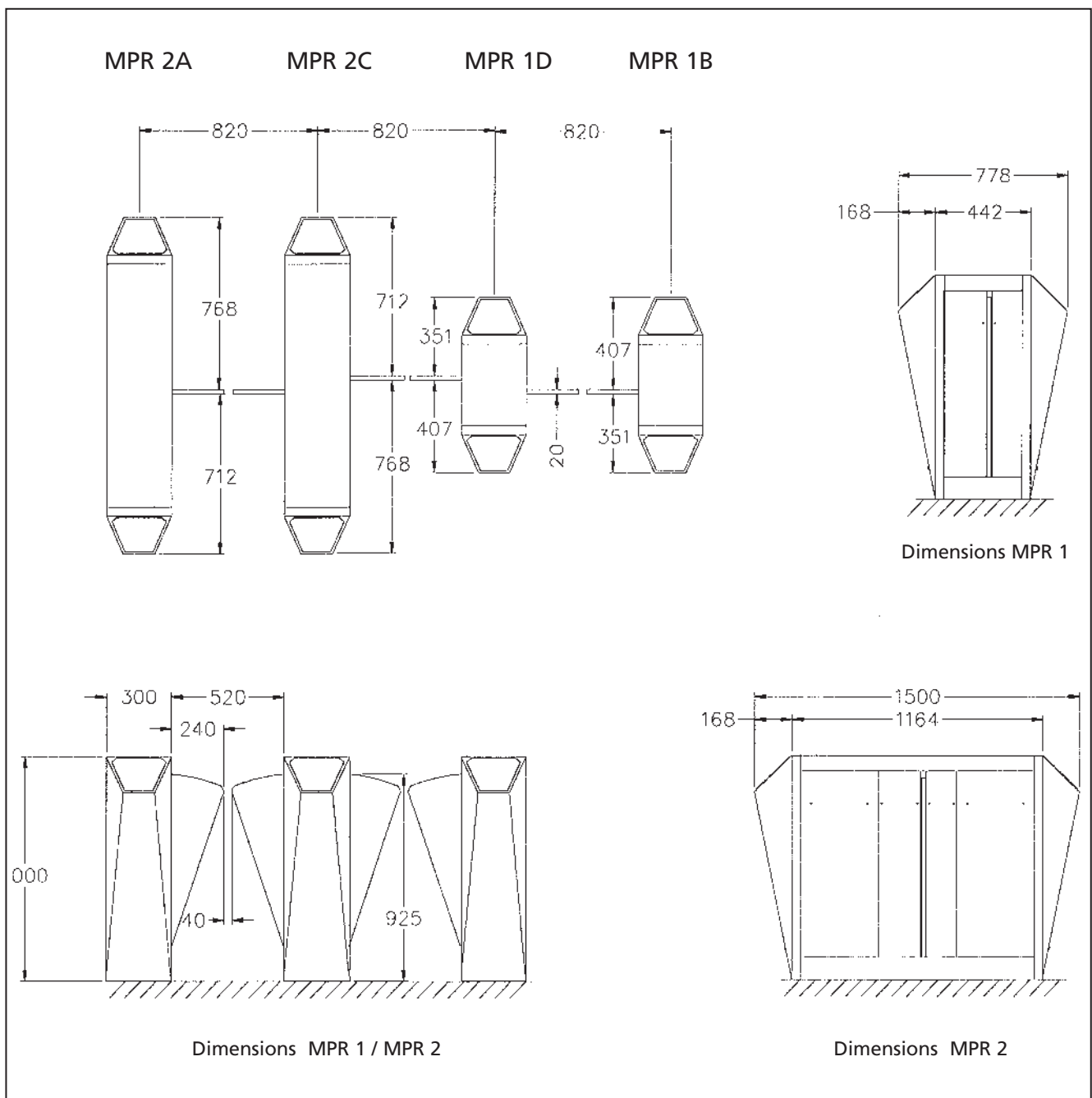
Options

Access control equipment integration, displays, side-access doors, additional photoelectric beams.

Controllers

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Pedestrian Barriers Retractable

MPR 32 (Corian/Stainless)

Technical Data:	Type	MPR 3
Magnetic torque drive		MDS
Torque	Nm	3
Opening / closing time	S	0.3
Protection	IP	44
Voltage	VAC	230
Frequency	Hz	50
Current	A	0.55
Duty cycle	%	100
Built in thermo protection	C	100
Weight (per housing) approx	Kg	110
Length	mm	2000

Description

The retractable pedestrian barrier is a user friendly access barrier developed for the fast processing of people in areas such as railway platforms, passenger terminals, sports stadiums and building access control.

A modular concept allows adaptation to a large range of customer requirements. The design allows the integration of all sorts of card readers for the security and fare collection industry.

The drive system incorporates a Magnetic Torque Motor with a 100% Duty Cycle and constant torque output. The retractable panels can be made from a variety of materials with 20mm clear acrylic as standard. For public transport applications soft foam covered wings are recommended.

Technology

The torque drive operates in conjunction with a double lever arm to operate the retractable panel, with a speed controlled motion and soft end position approach. The motor is continuously powered (low consumption) so the drive system is always warm enough to prevent condensation and corrosion in cold, wet or humid installation environments. The lever arm geometry can be adjusted to lock the panels in the closed position or alternatively, to allow the panels to open after a specified force is applied.

In the event of a power failure the panels open automatically, but can be adjusted to remain closed if required for security reasons. The Design lifetime of Magnetic Torque Motors is more than 3 million operations without maintenance.

Features

The heart of the barrier is the 110/230 Volt AC Torque motor. It is 100 % duty cycle by design and may be stalled in any position. Clutches and Limit switches are not required for Magnetic torque drives.

This important feature eliminates the initial setting and further maintaining of mechanical slip clutches.

Safety

Constant and maximum torque output can be set low enough not to harm any person.

Photo Electric (P.E.) beams are important for safety and passenger detection. Magnetic has developed their own P.E. Beams with a special operating frequency.

Electronic Controllers

The MPR 32 Retractable Barrier can be operated with a basic MUB Controller for 2 directional closed mode, with or without the latest on line MCU Controller incorporating a sophisticated P.E. Passenger detection system with 20 P.E. Beams per lane.

The MUB Controller offers selectable logic settings with LED status and power indicators. Opto isolated inputs and outputs for interfacing with external equipment. and solid state, instant reverse zero volt switching on the output stage.

The MUC Controller is designed for larger and more complex installations, especially where more sophisticated interfacing, or remote monitoring is required.

13 different operating modes are programmed and can be set remote or with DIP switches.

6 potential free inputs are available to connect card readers or command functions.

6 output relays are available and can be programmed according to customers requirements. All P.E. Beams and safety inputs are fail safe.

The MUC Controller has a com port for RS422 communication.

A Graphical interface is available for comprehensive control and diagnostic functions. An event log records all transactions and displays faults or vandal occurrence with date and time.

The MCU Controller can also take the role of a Gate Master controller incorporating the total Gate control function with concession and tailgating alarms.

Options

- * Gate End Displays
- * Gate Top Displays
- * Range of Corion Colours

