MAGNETIC AUTOCONTROL™

Pedestrian Barriers Pivot

MPP 12

Technical Data:	Type	MPP 12C
Mechanism		MDS
Protection	IP	44
Supply Voltage	VAC	230
Frequency	Hz	50
Current	A	0.55
Duty Cycle	%	100
Throughput (approx)	P/min	40
Weight	Kg	45

Description

The MPP 12 series pivot barriers are designed to control pedestrians entering or exiting restricted areas, usually under surveillance, in low security situations.

This design provides a cost effective, anti-tailgating solution with a bar rotation of 3 x 120 degrees. This model of a tri-arm design can be used in bi-directional control applications with high volume pedestrian traffic. A typical throughput of up to 40 people per minute is possible.

Typical Installations

Railway platforms
Airports
Passenger terminals
Sport Stadiums
Administrative areas
Factories
Swimming pools
Museums
Libraries

Housing

The housing is made of 2mm zinc plated, phosphate coated, sheet metal and powder coated RAL 7042 grey. Optional RAL colours are available if required. Stainless steel housings are also available in either 304 or 316 with a brush finish. The three rotating arms are made from 38mm diameter highly polished stainless steel.

Access to the MUC Controller is provided through a door at the front of the lower body that is secured with a water-protected lock. The positioning-drive unit is mounted in the upper part of the housing.

Technology

The drive system consists of a 3 phase Magnetic Torque Motor which is controlled by our MUC (Magnetic Universal Controller). This controller contains a special integrated frequency converter, developed by Magnetic, to provide a safe and smooth rotation of the turnstile arms, with several ramping parameters during each rotation of 120 degrees.

A maximum pre-programmed rotation speed provides the highest level of safety to pedestrians. After a release impulse has triggered the mechanism, and a person pushes slightly on the turnstile arm, the controller immediately provides high acceleration power for a very short period of time.

The pre-programmed allowable speed is compared with the actual speed so that the controller provides the optimal power to frequency ratio to the torque motor. This technology adapts itself to the transfer speed of the person entering or exiting through the turnstile and is very user friendly and safe.

The relative position of the rotating arms is provided to the MUC from an encoder mounted directly onto the Torque drive.

Therefore the home position is precisely monitored, so that any deviation can be used to provide alarm and status feed back to the MUC.

An electromagnetic disc brake forms a part of the locking system, to guarantee its release in case any pressure is applied to the turnstile bars coincidental with the release signal from the access controller.

The complete drive-locking unit is basically maintenance free. This design subsequently assures a very long operational life span. On power failure, the turnstile arms can be turned freely in either direction. No clutch is required.

In case of attempted vandalism, or too much pressure on the turnstile arms, the encoder will provide a signal to the controller, to release the brake and protect the drive unit from damage. A potential free alarm contact on the MUC is triggered in this instance. After such a situation, the turnstile rotates automatically to its home position and locks again. The alarm output is reset.

Options

- User guidance displays.
- Counters.

Info No. MPP 12
September 2002

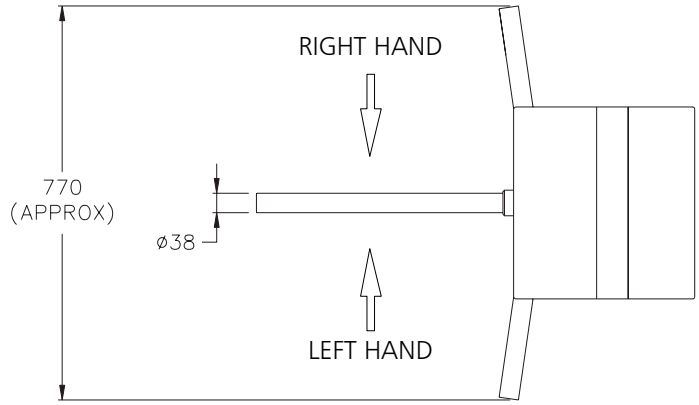
Subject to technical modifications

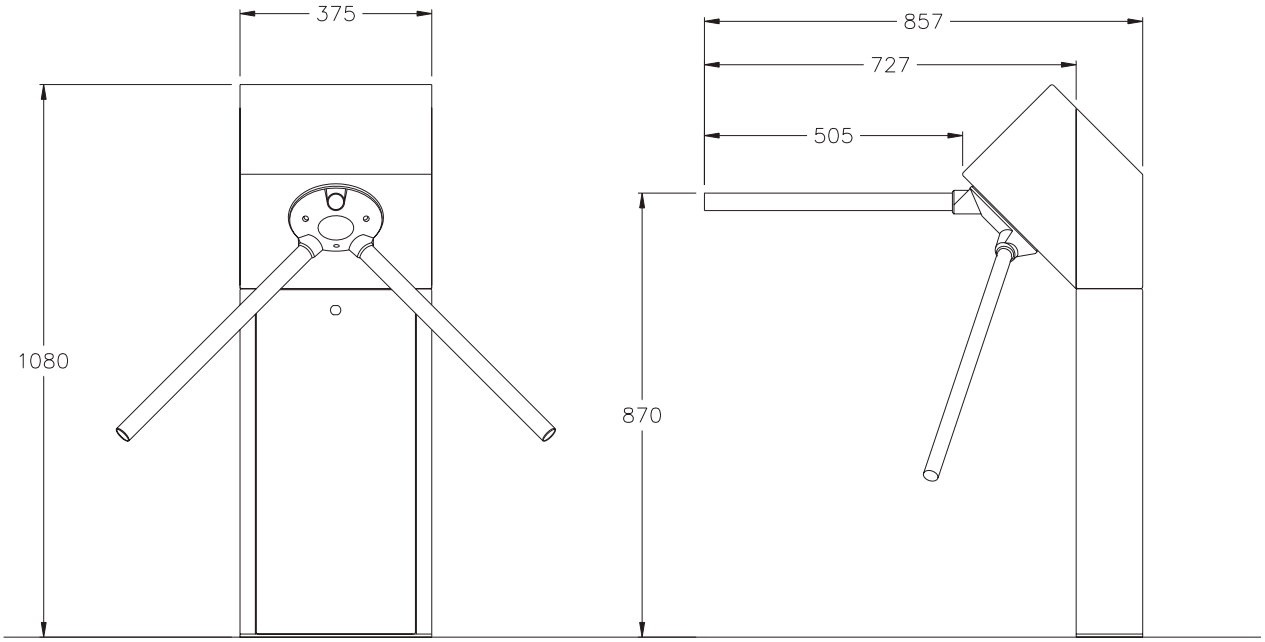
Melbourne
19 Beverage Drive
Tullamarine, Victoria 3043
Phone: (+61) 3 9330 1033
Fax: (+61) 3 9338 1398
e-mail: info@magnetic-oz.com

Sydney
Unit 1, 49-51 Prime Drive
Seven Hills, New South Wales 2147
Phone: (+61) 2 9620 8011
Fax: (+61) 2 9620 8015
e-mail: nswsales@magnetic-oz.com

Brisbane
Unit 8, 87 Webster Road
Stafford, Queensland 4053
Phone: (+61) 7 3856 5222
Fax: (+61) 7 3856 5255
e-mail: qldsales@magnetic-oz.com

www.ac-magnetic.com





Malaysia
Magnetic Control Systems Sdn. Bhd.
No. 16 Jalan Kartunis U1/47
Temasya Ind. Park, Section U1
40150 Shah Alam, Selangor
Darul Ehsan, Malaysia
Phone: (+60) 3 5569 1718
Fax: (+60) 3 5569 1719

India
Magnetic Autocontrol Private, Ltd.
2B, Calve Chateau
808 Poonamalle High Road
Chennai, India 600 010
Phone: (+91) 44 640 0433
Fax: (+91) 44 640 0963

China
Magnetic Control Systems Co. Ltd.
999 Ning-qiao Road, Bldg. 2W/1F
Pudong New Area
Shanghai 201206, China
Phone: (+86) 21/58 34 17 17
Fax: (+86) 21/58 99 12 33