Info

MAGNETIC AUTOCONTROL™

Automatic Gate Swing

GTA-MSG

Technical Data:	Type	GTA	MSG	MSG
Mechanism		GTA 210	MSG 10	MSG 20
Opening/ closing speed	sec	8	10	10
Power	W	280	370	550
Voltage	VAC	240	240	240
Frequency	Hz	50	50	50
Current	A	1.4	2.5	3.5
Duty Cycle	%	80	80	80
Built-In Thermo Protection	C	100	N/A	N/A
Max. gate leaf length	mm	3000	5000	7000

Description

The Magnetic range of automatic swing gate drive motors provide a fast reliable and efficient method of controlling vehicle passage at security access points.

Technology

For gate leafs up to 3.0m wide our standard speed drive system incorporates a GTA 210 torque drive and brake which operates from a single phase 240 volt power supply.

A 24v DC brake is incorporated with the motor and is used to positively lock and retain the fully open or closed positions of the swing gate.

On power failure the GTA drive motor brake will release allowing manual operation of the gate.

For gate leaf widths over 3.0m and up to 7.0m wide, our heavy duty drive system incorporates a 3 phase induction motor/gear box.

It operates from a single phase 240 volt power supply but derives 3 phase power from an inverter in the controller.

A 24v DC brake is incorporated with the motor and is used to positively lock and retain the fully open or closed positions of the swing gate.

Position feed back is provided by proximity switch sensors. These signals are used to control ramp up, ramp down, high speed, low speed and end position conditions.

On power failure the MSG drive motor brake will lock preventing manual operation of the gate.

*** Maximum gate widths are based on non-cladded gates with 75% free air flow. Cladded gates will reduce the gate width. Please check prior to installing.**

Controller

The Magnetic programmable logic controller (PLC) is provided with an Eeprom chip that enables software adaption and interfacing with a variety of remote control devices, security access systems and key card readers. It also integrates the inputs from proximity switch and safety control devices.

Outputs are provided for motor drivers, brake status conditions and warning lights. Control voltage is 24v DC and the controller is housed in a lockable IP65 steel enclosure which is located in the main housing.

Site specific features such as single leaf opening for pedestrian access only may be programmed on request.

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Subject to technical modifications

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Swing Gates

A variety of gate designs are possible including spikes, chain wire mesh and pressed metal cladding.

Construction

Fully welded RHS steel section is used in the manufacture of the gate frame, and support posts.

All fabricated steel is hot dip galvanised for total protection and maximum lifetime. The design allows for single leaf spans of up to seven (7) metres.

Safety

Safety devices, such as PE beams, loop detectors and safety edge strips are available to suit all applications.

The following safety points should be observed with regard to the installation and operation of the Magnetic Swing Gate:

1. The concrete foundation is to be provided in accordance with Magnetic's Works Documentation.

2. Opening and closing operations must be observed! During operation the presence of persons or goods in the movement zone of the gate is not permitted.

3. For traffic with trucks and trailers, additional inductive loops are required.

Options

- For the MSG Swing Gate Drive system, a battery back-up is recommended with a key switch connection to the brake circuit, enabling manual operation during power failure. Alternatively an uninterruptable power supply (UPS) may be permanently fitted to the controller so that normal operation can continue during power failure.

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