



Automatic Gate Slide

MSL

Technical Data:	Type	MSL 2A
Drive Unit		MSL 10
Power consumption	W	550
Voltage 3 Phase	V	240
Frequency	Hz	50
Current	A	1.2
Duty cycle	%	50
Operating Speed	sec	600
Output Torque	Nm	53
Linear Force	kg	100
Housing width	mm	400
depth	mm	300
height	mm	2000
Weight of Housing	kg	80
Controller	Internal	MSL 200
Max.gate opening length	mm	5000
Max. gate weight	kg	600

Description

The MSL series slide gates are designed for commercial and security applications where fast operating speeds and high usage is of importance. The Cantilever slide gates eliminate the need for ground tracks or overhead rails.

Construction

A compact galvanised and powder coated sheet metal housing incorporating the drive system and controller is used to support the sliding gate.

Fully welded RHS steel section is used in the manufacture of the gate frame. The design allows for single leaf spans of up to five (5) metres.

Technology

A robust 3 Phase AC Motor with a worm gear drive provides the linear movement of the slide gate through a gear wheel and a straight rack mounted to the gate. The Drive system is designed for gates up to 600 Kg and speeds up to 600 mm/sec (depending on the application.)

Position control is achieved with an encoder mounted to the gear box. A frequency inverter is part of the PLC controller to allow acceleration and deceleration of the gate for optimum performance. On power failure the drive unit can be easily disengaged from the gate to allow manual movement of the slide gate.

Controller MSL 200

This controller is mounted in the main housing above the drive unit. and contains a PLC (Programmable logic controller) with an Eeprom chip to enable software adaption and interfacing with a variety of remote control devices, security access systems and key card readers. It also integrates the inputs from the shaft encoder.

Input terminals for Safety devices are standard. Site specific features such as partial opening for pedestrian access only may be programmed on request.

Note: The controller provides three phase output power to the motor, however the mains supply needs only to be single phase.

Safety

The following safety points should be observed with regard to the installation and operation of the MSL slide gates.

Safety devices, such as PE beams, Inductive loop detectors and safety edge strips are available and strongly recommended. In areas with pedestrians safety devices are a must.

The concrete foundation is to be provided in accordance with drawings provided by Magnetic. For permanent installation, a main switch which disconnects all poles is to be provided by the builder.

Opening and closing operations must be observed! Installation of the operating elements outside the field of views is not permitted; a visual link must exist between the gate and the control device.

The Main Housing containing the complete drive system and a kit set containing all necessary parts to build a slide gate is available for customers intending to build their own gate. In this case separate tables are used to select the required parts.

Options

- A variety of gate designs are possible including spikes, chain wire mesh and pressed metal cladding. Bi-parting gates can be applied to wide carriageways or where back runner restrictions exist.
- Warning Lights, Warning Signs, Inductive loop detectors, P.E. Beams, Warning signs and radio controls. UPS – Un-interruptable Power supply.

Slide Gate Elevation... Dimensions for 3m opening only

