



## Gate Operators Slide

### MSL 20-30

Technical Data:	Type	MSL 20	MSL 30
Power consumption	W	550	550
Voltage 3 Phase	V	240	240
Frequency	Hz	50	50
Current	A	1.2	1.2
Protection	IP	55	55
Output Speed	Rpm	56	56
Output Torque	Nm	53	53
Linear Force	kg	100	100
Housing width	mm	500	500
depth	mm	260	260
height	mm	550	315
Weight	kg	40	30
Controller	External		MSL 220
Controller	Internal	MSL 210	
Duty Cycle	%	50	50

#### Description

The MSL series slide gate operators are designed for commercial and security applications where fast operating speeds and high usage is of importance.

#### 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 220

This controller is supplied in a separate IP 65 lockable steel enclosure, and contains a PLC (Programmable logic controller) with an Eprom 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 3 phase output power to the motor, however the mains supply needs only to be single phase.**

#### Controller. MSL 210

This controller is basically the same controller as the MSL 220 but is incorporated in the Drive system housing which is 235 mm higher. There is no need for a separate enclosure.

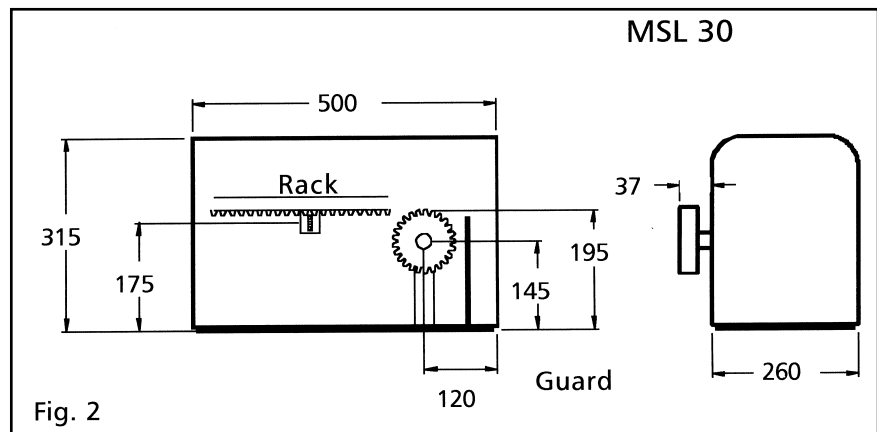
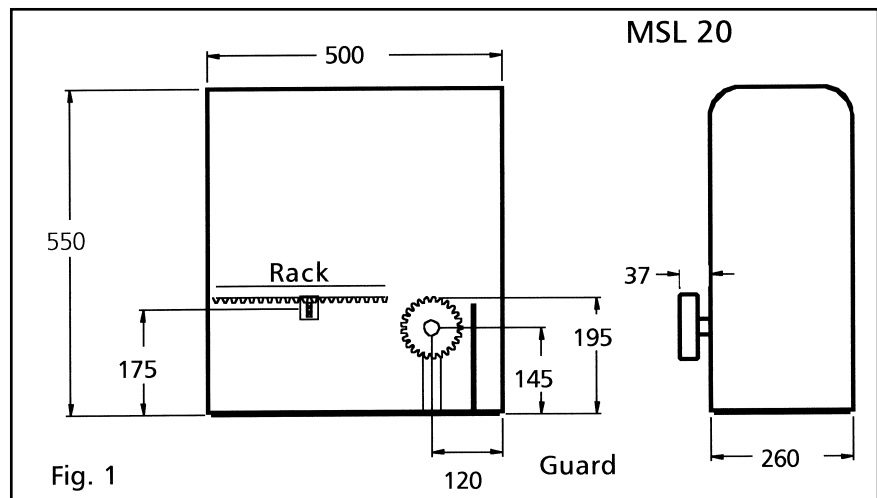
#### Accessories

Warning Lights, Warning Signs, Inductive loop detectors, P.E. Beams, and radio controls. UPS (Uninterruptable Power supply)

## Safety

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

1. Safety devices, such as PE beams, Inductive loop detectors and safety edge strips are available and strongly recommended. In areas with pedestrians access, safety devices are a must.
2. The concrete foundation is to be provided in accordance with drawings Fig. 3
3. For permanent installation, a main switch which disconnects all poles is to be provided.
4. Opening and closing operations must be observed! Installation of the operating elements outside the field of vision is not permitted; a visual link must exist between the gate and the control device.



Note: Available in left and right hand variations  
Please specify handing when ordering

## Concrete Foundations

