

RANGER Automatic Swing Gate system



Ranger automatic swing gate system is specially design by a team of mechanical and electrical engineer. The system provides comfort and built to withstand extreme heavy usage in the most rugged condition. This versatile system can be installed on existing and new gate without modification to the gate itself. As the motorised unit is concealed under the driveway just below the gate thus do not alter the aesthetic appearance of the gate. Furthermore the gate can be swing 90 degree.

After more than a decade since its introduction, the system continues to automate gates around the world with more than 1/2 a million set sold worldwide. This field-tested testimony of its reliability and robustness is far better than any claims of reliability with reports of 100.000 test cycles within the confines of a laboratory environment.

Fast operation: The motor unit that drives the mechanism is amongst the fastest in the industries. Its take 8 to 10 seconds to open the gate 90 degrees.

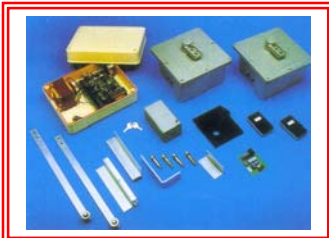
Silent operation: As the system uses the DC motor unit to drive the mechanism thus the operation is very silent

Durable and weather shield components: Major components such as the casing and actuators arm are made of tough and rust resistant materials. The motor drive unit itself is housed in a weather and waterproof aluminium alloy casing

Safety with anti-crush: A built-in safety clutch system suspends the motion of the gate should any obstacle be encountered in its path so as to prevent injury or damage.

Convenience: The system comes with a remote control system for gate operation up to 30 metres. From the confines of the vehicle, because the remote control system is coded it ensure once the gate is lock, no unauthorised opening is possible. Furthermore in an emergency the gate can be manually open by a key.

Improve control unit: The new control panel incorporates micro-computer technology with a CPU that is well protected from transient voltages and lightning strikes. With this control unit, gates cushion to a gentle halt



Actuator

The actuator is a rotary drive unit complete with D.C motor, speed reducer and electro-mechanical clutch system housed in a weatherproof alloy casing

Motor voltage	15 to 24 VDC
Power consumption	25 watts per actuator
Motor rated load speed	4700 RPM
Insulation resistant	1 Mega Ohm
Actuator output speed	2.2 RPM
Max Speed	12 to 15 degree per second
Max leaf opening Angle	360 degree
Max leaf weight allowed	200 kg
Casing	Waterproof and rust resistant cast alloy
Thrust force	0 to 60 kg
External dimension	240mm X 240mm X 140mm

Control unit

Micro processor with solid state integrated circuit for total control and encased in a weather resistant casing

Power supply	230 volts 13 Amps 50Hz
Timer	Adjustable to control sequence of motor operations and cut off current supply to motor
External Dim	310mm X 250mm X 130mm

Actuator arm and bracket

Type	Nickel-chrome plated iron
Bearing serial	F-10-30A
Arm Dimension	570mm X 25mm X 5mm

Solenoid lock

Rated voltage	24 volts DC
Locking stopper	Solid mild steel coated with hard PVC
Manual over ride	Key operated cam-lock
Dimension	140mm X 80mm X 70mm

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