



## MRS

## Rising Step

Technical Data:		Type	MRS
Opening Time		Sec	2.5
Voltage		V	415/3
Frequency		Hz	50
Power		Kw	7.5
Duty Cycle		%	100
Impact Strength		Km/Hr/T	30/10
Housing	Width	mm	3940
	Depth	mm	1537
	Height	mm	795
Hydraulic Cylinders		mm	038 x 305L x 2
Operating Pressure		Bar	200
Weight		Kg	800
Axle Loading		Tonne	10

### Description

The MRS series of Rising Step Barriers are designed to prevent unauthorised vehicles from crashing through controlled entry and exit points.

Built for fast reliable and efficient operation, these barriers are capable of withstanding high impact loads and are ideally suited for installation at toll collection booths where normal traffic is controlled by high speed boom gates.

Visual surveillance is recommended during the operation of the barrier.

### Housing

The frame and structure of the Rising Barrier is fabricated from heavy gauge steel fully welded prior to hot dip galvanising which ensures maximum protection against corrosion.

The barrier is hinged on its full length by a continuous stainless steel bar of 76mm diameter. The impact face of the barrier is reinforced with steel ribs and impact plates to transfer mechanical forces to the required and suitable reinforced concrete foundation. The top cover is made of galvanised steel checker plate.

### Technology

The barrier is operated from 2 parallel high speed hydraulic cylinders. A power pack containing an electric motor-pump assembly and an accumulator is installed adjacent to the barrier in a lockable enclosure. Limit switches provide feed back for the fully up or fully down position of the barrier.

Hydraulic energy stored in the accumulator during the rest period powers the step up in the shortest possible time. A safety valve locks the barrier in the up (secure) position in case of hydraulic failure or sabotage. Manual hand pump is available.

## Options

Accessories including traffic signals, safety beams or loop detectors are recommended and may be provided to suit specific applications

## Controller

The Magnetic programmable logic controller (PLC) is provided with an EPROM chip to enable software adaptation and interfacing with a variety of remote control devices, security access systems and key card readers. It also integrates the inputs from limit switches and safety control devices.

Outputs are available for motor drivers, directional solenoids, status conditions and warning lights. Control voltage is 24v DC and the controller is housed in a lockable IP65 steel enclosure which needs to be located in a secure environment.

