



MAGDRIVE

Info



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MAGDRIVE CANTILEVER SECURITY GATE

Cantilever gates are designed for high useage, rapid travel situations where total reliability is essential. The design contains all operating forces within a portal frame and balancing rail. An in ground track is not required.

The gate leaf is fabricated from substantial steel rectangular hollow section with a minimum wall thickness of 6mm. It has rigidity in both the vertical and horizontal planes and consequently high impact resistance should it be struck.

The leaf is supported by three heavy duty rollers, one within the portal frame and the others in a trailing boggy which traverses the horizontal balancing rail.

The portal frame also ex substantial rectangular hollow section provides vertical and lateral support for the gate leaf. It houses the drive motor and gate control.

The gate may operate at a constant speed nominally 200mm/sec alternatively variable speed where soft start/stop sequences are separated by rapid travel between. Due to high inertia of the gate leaf a maximum speed of 600mm/sec is recommended.

The variable speed is accomplished using a PLC and inverter frequency control.

Safety devices to inhibit gate movement whilst an obstacle is present include point to point safety beam and an inductive ground loop.

The gate may be operated using radio control, card access, vehicle identification or any access system which has a clean contact closure output.

SPECIFICATION

Size (length)	4.0 to 10.0 Metre
(height)	1.5 to 3.0 Metre
Construction	Steel RHS
Finish	Hot Zinc Spray
Speed	200 to 700 mm/sec
Motor	0.25 to 0.75Kw
Gearbox	SEW R43 Helical reducer
Drive	Gearwheel to linear rack
Control	PLC & close coupled Inverter
Safetys	Point to Point beam Inductive ground loop
Options	Dual Openings Radio Pressure sensitive strip

OPERATION

A remote contact closure ex a card reader, push button or similar causes the gate to commence opening at reduced speed. Following a brief interval of approximately 1 second the gate accelerates to its programmed travel speed and continues until 700mm before the fully open position where it slows to a reduced speed and soft stop. Depending on the logic chosen the gate will either rest in the open position for a preset time before commencing to close alternatively it will remain open awaiting a further command.

The close cycle is essentially the open cycle in reverse.

The gate may be caused to partially open eg. for a pedestrian before closing as for a total opening.

Safety devices ie: through beam and ground loop, inhibit closure if an obstacle is present.