

INSTALLATION OVERVIEW

The standard VMAG operator consists of a control cabinet, linear induction motor assembly, aluminum reaction fin and mounting hardware for a standard 20' gate opening. Additional reaction fin sections and hardware are available separately to accommodate larger openings, while the standard LIM assembly will accommodate most openings up to 30'. Custom configurations for larger openings, heavier gates, crash rated gates or other special designs are available upon request.

The aluminum reaction fin is mounted to the gate using supplied brackets and hardware. No special tools are required for installation.

The control cabinet can be mounted on a post, an adjacent wall or a freestanding pedestal. The LIM assembly is secured to a post using a linkage assembly. A licensed electrician is required for proper electrical hook up and a factory authorized and trained installer should supervise the operator installation.

OPERATOR SPECIFICATIONS

Required Electrical Supply

- Volts:
VM12XX 208-240 VAC
VM14XX 440-480 VAC
- Phase:
3 Phase 50-60 hertz
- Current:
35 Amp (40 Amp if heater option is required)

Controller Enclosure

- Listings:
UL 508 Types 3R, 4, and 12
CSA Type 3R, 4, and 12
- Complies with:
NEMA Type 3R, 4, and 12
IEC 60529, IP66
- Dimensions:
30"W x 24"H x 12"D
- Material:
14 gauge steel, ANSI-61 gray powder coat inside and outside

Reaction Fins

- Material:
6061-T6 Aluminum Extrusion
- Reaction Fin Wt.:
37.55 lbs ea. (approx. 5.3 lbs. per foot)
- Length:
6.83 ft. (82") Overall
- Height:
9.78"
- Width:
Top 2.5", Main Fin 0.375"
- Finish:
Clear Anodize - MIL-A-8625, Type II, Class 2

Motors

- Type:
Linear Induction with internal thermal protection
- Winding Insulation:
Class H (180C/355F)
Class F (155C/310F)
- Protection class:
IP60

Additional Materials and Installation Required

- (4 ea.) 1/2" flexible conduit and connectors
- 1 flex and connectors for controller to position feedback and proximity sensor cables
 - 1 flex and connectors for controller to lock solenoid
 - 1 flex and connectors for controller to primary motor
 - 1 flex and connectors for controller to secondary motor
- (3) 14 AWG, 600V THHN or equivalent (motor power)* preferred red, white & blue
- (2) 16 AWG, 600V THHN or equivalent (solenoid lock) preferred black
- (1) 16 AWG, 600V THHN or equivalent (Ground) preferred green or green/yellow
- (2) 18 AWG, 600V THHN or equivalent (motor thermal switches) preferred White
- (1) 14 AWG, 600V THHN or equivalent (Ground) preferred green or green/yellow
- (1) 8 foot ground rod and ground clamp
- Electrical connections to be installed from electrical supply to the controller by a certified electrician.
- Access control and entrapment protection equipment should be planned and installed as required per UL325.
- * For motor leads exceeding 15 feet, a shielded power cable must be used.



Experience VMAG speed at: www.vmagtech.com | 210-495-3000 | sales@vmagtech.com

When it comes to security,
speed is everything.



Introducing VMAG.
A quantum leap in gate operator technology.

High performance. Low Maintenance. Unbeatable.

- Unmatched speed & reliability
- Propels gates up to 8 feet /second
- Eliminates hydraulics
- No moving drive components



HIGH SPEED, LOW MAINTENANCE.

VMAG's advanced and patented gate operators are the world's fastest and most reliable because they are the first to incorporate electromagnetic Linear Induction Motor technology. Until now, the best conventional operators moved gates at speeds of 2 to 4 feet per second. Only VMAG offers speeds up to 8 feet per second. When it comes to security, speed counts. That's why you can count on VMAG.

DESIGNED FOR:

- Airports
- Seaports
- Military Installations
- Government Facilities
- Petrochemical & Industrial Facilities
- Power Plants & Utilities
- Data Centers
- Corporate Offices
- Correctional Institutions
- Any Security Sensitive area



THE NEXT GENERATION OF SECURED ACCESS.

UNMATCHED RELIABILITY

- Solid-state design without moving drive components.
- No chains, cables, gears or pinch wheels.
- Not subject to wear and deterioration commonly associated with other mechanical designs.

UNMATCHED SPEED

- VMAG operates slide gates at speeds up to 8 feet per second.
- Effectively deters unauthorized access and tailgating.
- Dramatically improves vehicle throughput.
- Programmable speed control to meet the unique requirements of each application.

GREEN TECHNOLOGY

- Eliminates hydraulic fluids and lubricants and their environmental risks.

INTEGRATED LOCKING MECHANISM

- Locking mechanism engages in both the open and closed position.
- Lock can be manually disengaged in the event of power loss or emergency.

SELF-CALIBRATING

- The VMAG automatically calibrates itself at startup.
- No limits to adjust.

FLOATING DESIGN

- Drive motors and reaction fin mount directly to gate.
- Operator floats with gate movement eliminating the need for critical alignment.
- Mounts at any height reducing exposure to ground level risks.

COMPATIBILITY

- VMAG is fully compatible with all access control devices.
- Emergency backup power systems can be adapted to assure 100% service during power losses.