



# model MSG

## DESCRIPTIVE SPECIFICATIONS



Our MSG full height security gates look and function much better than an on site or custom fabricated gate. With several models to choose from, the MSG can meet almost any application or requirement.

### COMMON APPLICATIONS

- Time & Attendance Integration
- Loss Prevention
- Employee and Visitor Access Control

### TYPICAL INSTALLATION SITES

- Warehouse Facilities
- Petrol & Chemical Facilities
- Distribution Centers

## FUNCTION

The MSG gate is a self-closing full height security gate. Various models are available, including electric locking versions that can be integrated with an access control system. All MSG models are self-closing and include a heavy duty hydraulic closure mechanism. All gates are ordered with either a right or left hand swing. MSG gates are often installed in conjunction with Alvarado's full height turnstiles.

## AVAILABLE CONFIGURATIONS

### **MSG (no locking hardware)**

Features a pull handle on the entry side.

### **MSG1 (manual lock control)**

Features key lock control on the entry side, and a mechanical push bar on the exit side. A mesh infill is included to prevent reach-through activation of the push bar.

### **MSGX (magnetic lock control)**

Features a magnetic lock (fail-safe) and pull handle on the entry side.

### **MSGXPX (magnetic lock control)**

Features a magnetic lock (fail-safe) and pull handle on the entry side, and a microswitch push bar on the exit side. A mesh infill is included to prevent reach-through activation of the push bar.

### **MSGXS (electric lock control)**

Features an electric strike lock (fail-lock) and pull handle on the entry side.

### **MSGXE (electric lock control)**

Features an electric strike lock (fail-lock), key lock control and pull handle on the entry side, and a mechanical push bar on the exit side. A mesh infill is included to prevent reach-through activation of the push bar.

## AVAILABLE FINISHES

### **GALVANIZED**

All exterior steel materials are hot-dip galvanized to ASTM Standards A123 / A153.

### **STAINLESS STEEL**

Gate and frame are fabricated from #304 stainless steel with a satin finish.

### **POWDER COATED OVER GALVANIZED FINISH**

All exterior tubing and sheet metal surfaces receive an underlying coating of hot molten zinc. Sub-assemblies are treated to allow for the application of powder coat over the galvanized finish.

## MATERIALS

### **GATE**

The Gate is a fully welded assembly consisting of 2" x 3" vertical and 2" x 5" horizontal structural steel tubing. Vertical infill bars of 1.5" square tubing are spaced evenly across the width of the gate.

**GATE FRAME**

The Gate Frame is a fully welded assembly consisting of 2" square vertical and 2" x 5" horizontal structural steel tubing. The frame includes two welded 1/4" thick base plates for mounting to a concrete slab.

**INFILL MESH**

Infill Mesh is included on certain models. Infill mesh is a diamond mesh pattern and is added to the upper and lower portions of the gate.

**HYDRAULIC CLOSURE**

The hydraulic gate closure mechanism installed on all gates is a Norton Model # 7500.

**MECHANICAL COMPONENTS & FUNCTIONALITY****MANUAL DEADBOLT LOCK (MSG1)**

Manual key lock control in the entry direction.

**MECHANICAL PUSH BAR (MSG1 & MSGXE)**

The Von Duprin Model 98EOUS28 is a mechanical push bar that unlocks the gate when depressed.

**MICROSWITCH PUSH BAR (MSGXPX)**

The Gianni Model PBA-840 is a microswitch push bar that interrupts electrical contact with the magnetic lock to unlock the gate and allow exit.

**ELECTRIC COMPONENTS & FUNCTIONALITY (ELECTRIC MODELS)****MAGNETIC LOCK (MSGX & MSGXPX)**

Gianni Model GL-1200 is a magnetic lock. It is fail-safe, and has a current of draw of 250 mA @ 12VDC, and a holding force of 1200 lbs.

**ELECTRIC STRIKE LOCK (MSGXE)**

Von Duprin Model 6111 is an electric strike lock that allows for key & push bar override. It is fail-lock and has a current draw of .57 A @ 12VDC.

**ELECTRIC STRIKE LOCK (MSGXS)**

Gianni Model GK-300 is an electric strike lock. It is fail-lock and has a current draw of 250 mA @ 12VDC

**ACTIVATION****MSGX AND MSGXPX**

MSGX and MSGXPX models require a sustained dry contact to unlock the gate. The gate lock will not re-engage until the switch is released and the gate is closed. The MSGXPX includes a microswitch push bar which, when depressed, provides a contact to the magnetic lock to unlock the gate and allow exit.

**MSGXS & MSGXE**

MSGXS and MSGXE requires a sustained normally open switch input to unlock the electric strike lock. The gate lock will not reengage until the switch is released and the gate door is closed. Model MSGXE includes a mechanical push bar which, when depressed, mechanically unlocks the gate and allows exit. This model also includes a mechanical key override of the lock to allow access in the entry direction.

## OPTIONS

### INFILL MESH

Infill Mesh is included on certain models and is available as an option on others. Infill mesh is a diamond mesh pattern and is added to the upper and lower portions of the gate.

### DEAD BOLT LOCK; DOUBLE CYLINDER

Key operation on both sides of the gate. Available on the MSG1 and MSGX.

### DEAD BOLT LOCK; SINGLE CYLINDER

Key operation on one side; a thumb turn knob (also known as a thumb latch) is installed on the opposite side. Available on the MSG1 and MSGX. Consider mesh infill if this option is utilized.

### CARD READER UNIVERSAL ATTACHMENT ASSEMBLY

The Card Reader Universal Attachment Assembly is added to the gate frame on the entry side, the exit side or both sides of the gate. The assembly accepts an additional plate designed to fit the reader used in the installation. This option is available on the MSGX, MSGXPX, MSGXE and MSGXS models.

### MAGNETIC DOOR STATUS SWITCH

When magnetic contacts are broken, output signal indicates that door is open. The switch is a SPST contact supplied with two lead in wires for field connection. This option is available on all models.

### PUSH BUTTON ASSEMBLY

A 3.15" square switch box assembly constructed of stainless steel with a DPDT push button switch. Includes zinc plated mounting plate for attachment to wall, desk or other fixed item. The switch is field wired into the strike or magnetic lock power cable to unlock the gate from a remote position such as a guard shack. This option is available for the MSGX, MSGXPX, MSGXE and MSGXS models.

## SHIPPING & SITE PREPARATION

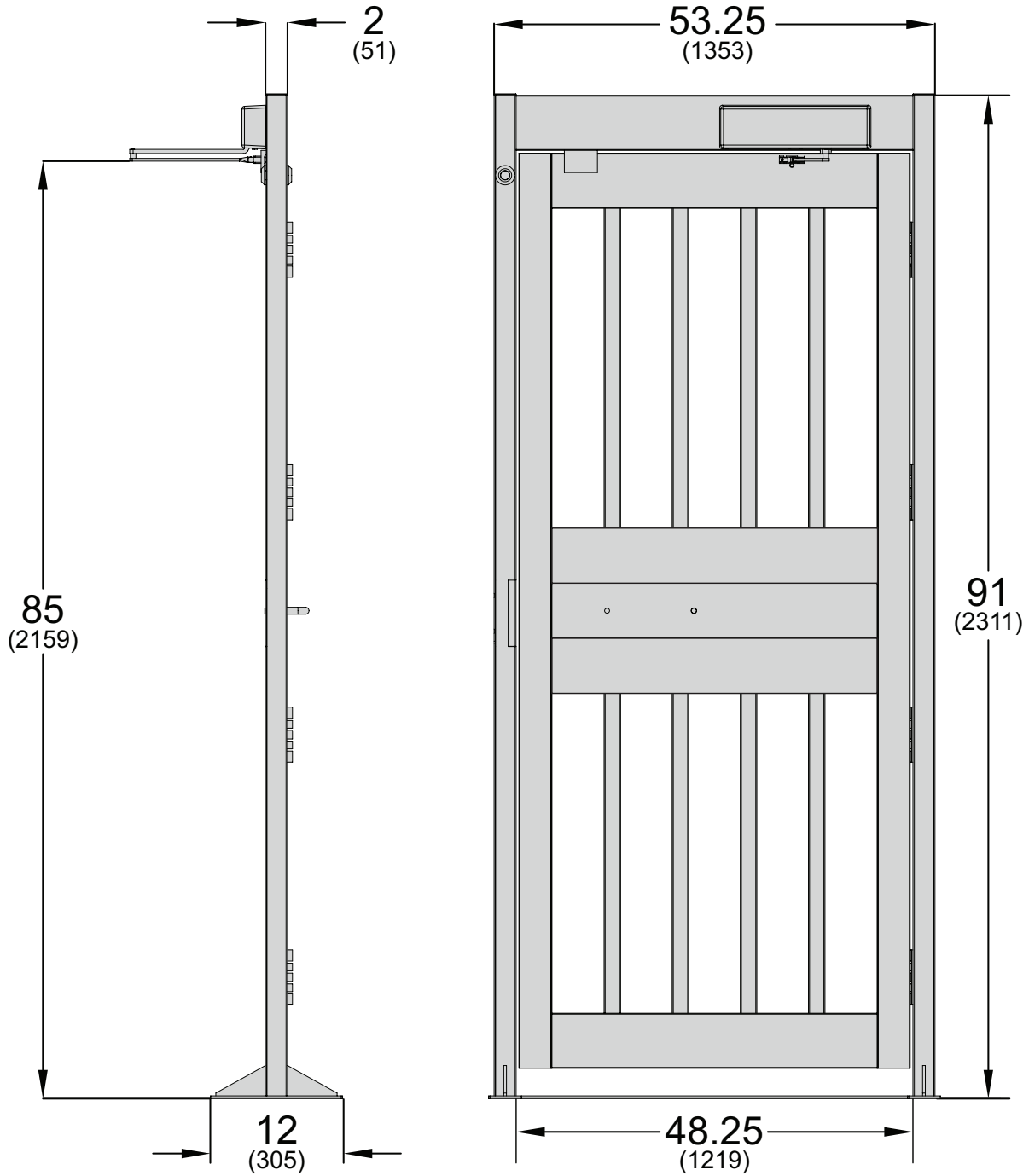
### SHIPPING

MSG gates are shipped fully assembled and ready for installation.

### SITE PREPARATION

All gates must be installed on a firm foundation in a manner that allows the required power and activation signal cabling to be pulled into the unit. The recommended slab platform should be 4" deep, level concrete. Concrete anchors, bolts and washers are included with each gate. Installation should be performed by a skilled installer following Alvarado's directions and instructions. Detailed drawings and installation manuals are available online.

**TECHNICAL DIMENSIONS**



Dimensions shown in inches (mm).

| <b>ELECTRICAL</b>                      |  |  |
|--|--|--|
|  | DESCRIPTION  |  |
| TRANSFORMER                            | 120VAC to 12 VDC.  |  |
| OPERATIONAL VOLTAGE                    | Primary power is stepped down and rectified for low voltage 12VDC operation. |  |
| <b>WEIGHT, DIMENSIONS, ENVIRONMENT</b> |  |  |
|  | STANDARD   | METRIC   |
| PRODUCT WEIGHT                         | 350 lbs.   | 159 kg   |
| SHIPPING WEIGHT                        | 500 lbs.   | 227 kg <span style="float: right;">Includes weight of shipping crate.</span> |
| HEIGHT                                 | 91.0"  | 2311mm   |
| WIDTH                                  | 53.25"   | 1353mm   |
| BASE WIDTH                             | 12"  | 305mm  |

**WARRANTY**

For a period of one year from the date of purchase, Alvarado will replace or repair, at Alvarado’s option, any products or parts which are defective in materials or workmanship, provided recommended installation and maintenance procedures are followed. This warranty is void if damage is due to improper installation, maintenance or use. This warranty is limited to parts only, and does not cover labor or shipping charges incurred in connection with the removal or replacement of warranted products or parts.

This warranty is expressly made in lieu of any and all other warranties, expressed or implied, including, but not limited to implied warranties of merchantability and fitness for a particular purpose. Alvarado shall not be liable for any loss or damage, directly or indirectly, arising from the use of purchased products. In no event shall Alvarado be liable to buyer for consequential damages, special damages, incidental damages, loss of use, business interruption, loss of profits, or damages of any kind arising out of the use or inability to use a purchased product. In no event shall Alvarado be liable for damages which exceed the purchase price of a covered product.