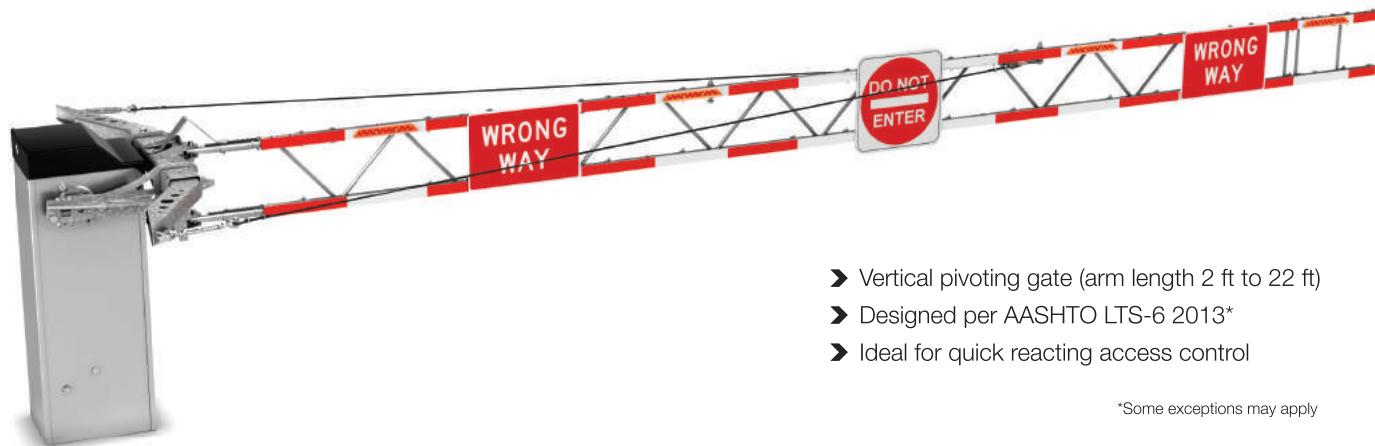


VSG-22F

VERTICAL SWIFTGATE FAST ACTING (UP TO 22')

PRODUCT SHEET



- Vertical pivoting gate (arm length 2 ft to 22 ft)
- Designed per AASHTO LTS-6 2013*
- Ideal for quick reacting access control

*Some exceptions may apply

SWIFTGATE SOLUTION OVERVIEW

SwiftGate is the Versilis automated gate solution specifically designed for highway traffic control operations. Various types of gates, such as the Vertical Fast Acting VSG-22F, fall under the SwiftGate umbrella, as they all share the same design key features and communication technology. Whether the gates are short or long, pivot horizontally or vertically, Versilis has kept the same objectives in the design of each SwiftGate product: motorist safety, ease of integration and operational efficiency.

VSG-22F OVERVIEW

The VSG-22F pivots vertically and offers increased visibility using a high surface of reflective material and LED lighting. The gate arm's unique design provides strength, and durability. Manufactured with corrosion resistant materials, the VSG-22F is designed to withstand harsh roadside conditions and weather environments. Operation and integration is made easy with the Versilis communication hardware which offers different communication options to allow gates to be operated, monitored, and sequenced, locally and remotely.

VSG-22F OPERATION

Gate VSG-22F includes the necessary Versilis Control Unit to receive and execute commands. A system application may include one or many gate modules that can be activated individually, in sequence, in groups, or as part of an overall solution that brings together various traffic devices, including SwiftSign, lane control signs, flashing beacons, traffic light controllers, etc. Different communication interface options allow gates to be controlled and monitored remotely from a Traffic Management Center. For on-site operation and maintenance, a radio frequency (RF) handheld remote control is available, as well as push buttons.

VSG-22F ARM

The VSG-22F gate arm is built with easily replaceable aluminum sections. The gate arm, designed with two rails, offers maximum visibility and reflectivity using an increased flat surface of high intensity retroreflective sheeting, close to double the surface of typical parking gates. A large flexible polycarbonate 'DO NOT ENTER' sign and flashing LED lighting installed on the gate arm provide a clear and visible message to motorists that the access is closed. Other signs or panel options are also available. In the event of an impact, a pivot mechanism allows the gate arm to swing out and minimize damage to the gate. A safety device is provided to lock the impacted gate arm and prevent the arm from swinging back.

APPLICATIONS

- Wrong-way driver deterrent
- Tunnel/Bridge emergency/maintenance closure
- Event traffic management
- Other similar access control applications F V

**SAFETY
PERFORMANCE
EFFICIENCY**

INCREASED HIGHWAY OPERATION EFFICIENCY

VSG-22F

VERTICAL SWIFTGATE FAST ACTING (UP TO 22')

PRODUCT SHEET

TECHNICAL FEATURES

PHYSICAL

- Gate length available from 2' to 22' in approx. 4" increments
- Pivoting range of 90 degrees (vertical)
- Deployment or retraction time: typically less than 5 seconds
- Arm: aluminum sections with quick-connect junctions
- Wind load: 100 mph for 22' (shorter gates can sustain higher wind)
- Designed according to AASHTO LTS-6 2013 (exception applies for ice loading)

REFLECTIVITY

- Gate arm retroreflective sheeting surface: 40 in² per linear feet
- Sign retroreflective sheeting surface: 480 in² minimum (vary with signs options)
- Retroreflective sheeting colors and grade: high intensity Type 3 or 4 or equivalent, alternating red and white, angled at 45 degrees, or as specified by project requirements
- Red flashing gate LED; configurable light intensity and flashing pattern i.e. synchronized or delayed through the gate system

HOUSING

- Aluminum structure painted gray with removable door for maintenance
- Built-in anchoring plate pre-drilled for four 5/8 inch anchoring bolts
- Housing dimension: 416 mm x 518 mm x 1172 mm (16-3/8" x 20-3/8" x 46-1/16")
- Weight excluding arm: approx. 700lbs (317 kg)

ELECTRICAL

- Standard Versilis Control Unit for electrical motor control, LED power management & flashing logic, and battery charger function
- Battery 12V DC, AGM type as power backup for communication hardware and Gate LED operation
- Housing heated by a 150 Watts element controlled by thermostat

GATE MECHANISM - MOTORISATION

- Electrical motor 1/2 hp, up to 1 hp* with thermal protection (240V AC 1-phase; 208,480 or 600V AC 3-phases)
- Yellow dichromate electro zinc rust protection
- Hand crank manual override

COMMUNICATION INTERFACE OPTION

- Wireless (US 915-MHz ISM band)
- Wire RS-485 interface
- Fiber optic

HANDHELD RF REMOTE CONTROL

- Wireless (US 915-MHz ISM band)
- Approximate range of 1 mile in normal condition with line of sight

CONTROL OPTIONS

Ability to mix and match control options for added operational flexibility and redundancy.

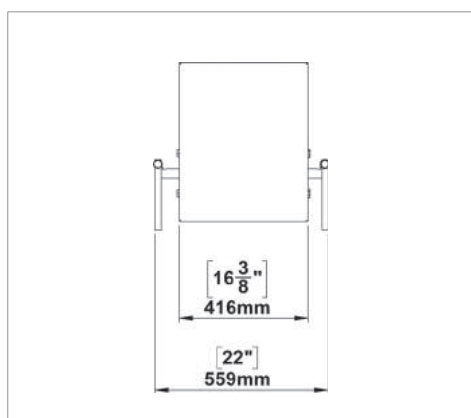
Local Control Options:

- Versilis handheld RF remote control
- Push buttons

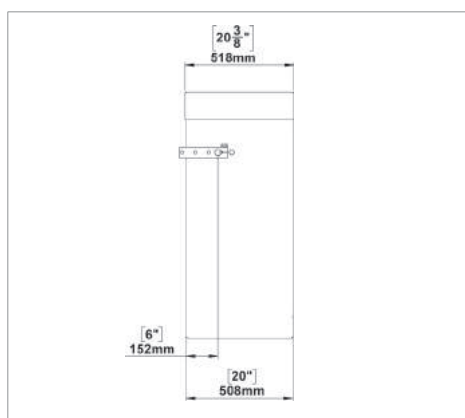
Remote Control Options:

- Versilis Commander for NTCIP and WEB access over Ethernet
- PLC using dry contacts

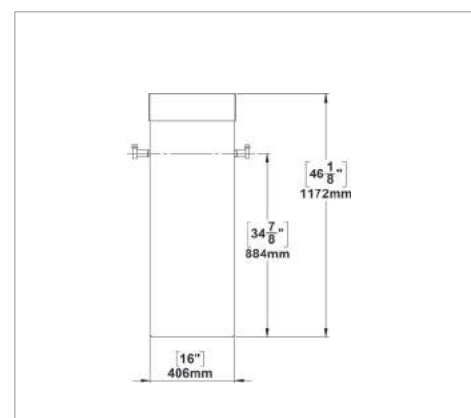
*When ice loading applicable.



Housing top view



Housing side view



Housing front view

ABOUT VERSILIS

Versilis takes pride in developing quality innovations and providing exceptional service. Everything we do is governed by three principles: quality, safety and efficiency. In an effort to meet the highest quality standards and respond to clients' evolving requirements, Versilis engineers work hard at continuous product improvement. For this reason, Versilis reserves the right to modify minor technical details listed in this product information sheet without warning.

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INCREASED HIGHWAY OPERATION EFFICIENCY