

LANE CONTROL SIGN

PRODUCT SHEET

OVERVIEW

The Lane Control Sign (LCS) is an automated warning signage solution designed to facilitate the management of road, bridge, and tunnel lanes in real time. The objective of this system is to optimize the use of existing lanes and improve traffic fluidity by providing motorists with clear indications that a lane is closed or open to traffic. Various types of warning signs, such as the LCS, fall under the Versilis signage solutions umbrella, as they all share the same key design features and communication technology. Each signage product is designed to meet Versilis' basic principles of motorist safety, ease of integration and operational efficiency

- Modular design adapted to any project requirements
- Flexible dimming modes
- Ease of integration



VISUAL QUALITY

The product utilizes high-quality LEDs designed for road applications as well as an exclusive constant modular power supply system. The product technology controls brightness with current intensity rather than pulsed signals thereby providing maximum visibility in all lighting conditions. Each lane control signal model was designed to ensure the best visual appearance on the market.

OPERATIONAL EFFICIENCY

This Lane Control Sign system is energy-efficient as it consumes up to 90% less electricity than conventional fiber optic panels. All components are designed and manufactured to reduce operating costs by facilitating maintenance and upgrading. The power supplies are modular and can be installed on each panel or consolidated in a more accessible area in order to minimize lane closures during maintenance operations.

MODULAR DESIGN

The modular design of this product allows easy customization of design specific and oversized panels according to any project requirements. A full array of predesigned panels is also offered, and several messages can be combined on a single panel.

LANE CONTROL SIGN OPERATION

A Lane Control Sign includes a Versilis Control Unit to receive and execute commands. A system application may include one or many LCS that can be activated individually, in sequence, in groups, or as part of an overall solution that brings together various traffic devices, including SwiftSign, SwiftGate, blank out sign, flashing beacon, traffic light controller, etc. Different communication interface options allow LCS 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.

FUNCTIONAL CHARACTERISTICS

- Independently controlled and powered messages
- Dry contact for the confirmation or alarm of each message and for interlocking two contiguous messages without additional material
- Replacement of the front panel assembly and main components using only a screwdriver, which facilitates upgrading and maintenance operations
- Fully compatible with:
 - Standard traffic signal conflict monitors (NEMA and 170)
 - Orange Traffic's SPC-22 programmable countdown module, allowing for the panel's autonomous operation according to determined schedules
 - Earlier versions of Orange Traffic lane signals
- Separate power supply modules that are replaceable while powered
- 3/16" thick UV-resistant front lens for extended LED life

**SAFETY
PERFORMANCE
EFFICIENCY**

INCREASED HIGHWAY OPERATION EFFICIENCY

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TECHNICAL FEATURES

DIMMING MODES

- Extremely flexible dimming modes to meet the needs of various situations (retrofits, new installations, etc.)
- 50% instantaneous or timed fixed dimming using an external photoelectric cell
- Programmable gradual dimming (1,000 increments) using an external photoelectric cell
- Gradual dimming (1,000 increments) according to the brightness of ambient light using a built-in photoelectric cell
- Gradual dimming (1,000 increments) of a set of panels from a master panel controlled by an internal or external photoelectric cell (ensures uniform brightness of all panels making up the set)
- Permanent fixed dimming (60%)

DISPLAY MODES

The flashing modes are incorporated and synchronized. Several display options are available:

- Constantly lit
- Flashing every 250 ms
- Flashing every 500 ms
- Flashing every 1 s
- Constantly unlit
- Wig-wag flashing every 250 ms
- Wig-wag flashing every 500 ms
- Wig-wag flashing every 1 s

PHYSICAL

- NEMA 4 enclosure
- Compliance with ITE requirements applying to LED message panels
- Exterior dimensions:
 - 28" x 28" for 24" messages
 - 28" x 38" for 30" messages
- Depth: 8 inches
- Compliance with operating temperature criteria of the NEMA TS2 standard (-30 to +165°F)

OPTIONAL ACCESSORIES

- 12" visor for improved visibility and contrast in direct sunlight

ELECTRICAL

- Supply voltage: 90-135VCA/60 Hz
- Power: nominal 15 W; maximum 30 W
- Power factor: > 90%

COMMUNICATION INTERFACE OPTIONS

- Wireless interface (US 915 MHz ISM band)
- Wired RS-485 interface
- Fiber Optic interface (SM or MM, with ST or SC connector type)

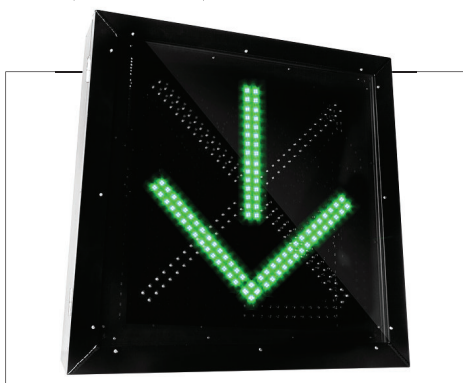
LOCAL CONTROL OPTIONS

- Versilis Handheld Remote Control (US 915 MHz ISM band). Approximate range of 1 mile in normal condition with line of sight.
- Push buttons in local ITS cabinet (when using Versilis Commander)

REMOTE CONTROL OPTIONS

- Using Versilis Commander (over Ethernet):
 - Versilis Single Web page
 - Versilis ITS Central
 - NTCIP Client Interface
- PLC using dry contacts

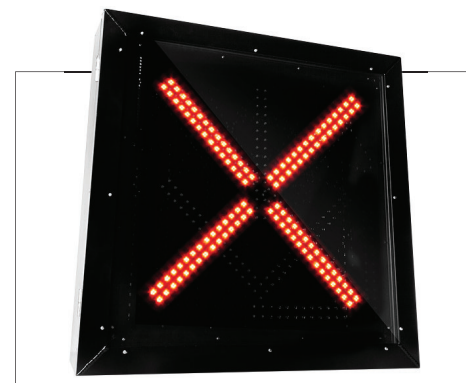
Ability to mix and match above control options for added operational flexibility and redundancy.



Open lane



Jacques-Cartier Bridge



Closed lane

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 client's 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.

In Partnership with **Orangetraffic+**

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