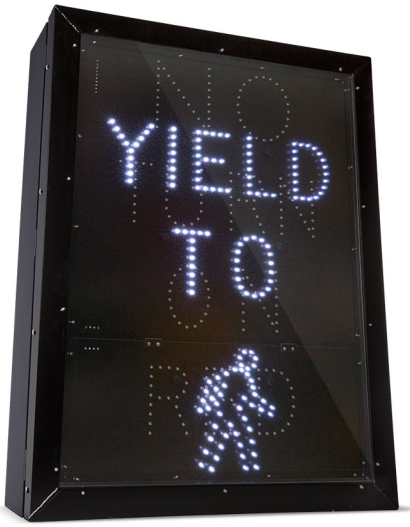
Lit LED Road Signs

Orange Traffic

Orange Traffic's lit LED road signs are designed to convey clear and context-based messages at strategic locations in the road network. These panels can serve to issue location-specific safety messages (e.g., use of reserved lanes or turning restrictions according to intersection configurations). Messages can be displayed permanently or activated in keeping with conditions, intersection timings or predetermined schedules.



Description

Each LED panel was designed to ensure the best visual appearance on the market. Orange Traffic uses high-quality LEDs designed for road applications as well as its exclusive constant current modular power supply system. Brightness is controlled by current intensity rather than pulsed signals. Consequently, the messages are stable and provide maximum visibility in all lighting conditions.

Orange Traffic's LED panels also enable energy cost savings because they consume 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. For example, the LED panels' front assemblies can be replaced in minutes using a regular screwdriver and power supplies are modular. Power supplies can be installed on each panel or consolidated in a more accessible area in order to minimize lane closures during maintenance operations.

Because of their modular design, Orange Traffic's LED panels are easily adaptable to your needs. Orange Traffic offers a full array of predesigned panels and it is possible to combine several messages on a single panel. Orange Traffic can also custom design specific or oversized panels. Feel free to inform us about your particular needs.

Specifications

Functional characteristics

- Independently powered and controlled messages
- Dry contact for the confirmation or display control alarm of each message and for interlocking two contiguous messages without additional material
- The front panel assembly as well as the main components can be replaced using simply a regular 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 traffic signals
- Separate and hot swappable power supply modules
- Front lens measuring 4.76 mm (3/16 in.) in thickness and UV resistant

Technical specifications

- NEMA 4 enclosure
- Compliance with ITE requirements applying to LED road signs
- Exterior dimensions:
    - 710 x 710 mm (28 x 28 in.) for 600 mm (24 in.) messages
    - 710 x 965 mm (28 x 38 in.) for 750 mm (30 in.) messages
- Depth: 400 mm (8 in.)
- Supply voltage: 90-135 VAC/60 Hz
- Power: nominal: 15W; maximum: 30 W
- Power factor: > 90%
- Compliance with NEMA TS2 environmental standards (-34 to +74°C [-30 to +165°F])

Display and flashing modes

The display and flashing modes include a constantly lit display and several flashing options:

1. Lit
2. Flashing every 250 ms
3. Flashing every 500 ms
4. Flashing every 1 s
5. Unlit
6. Wig-wag flashing every 250 ms
7. Wig-wag flashing every 500 ms
8. Wig-wag flashing every 1 s

Dimming modes

Flexible dimming modes to meet the needs of different types of installations

1. 50% instantaneous or timed dimming using an external photoelectric cell)
2. Gradual dimming (1,000 increments) using an external photoelectric cell
3. Gradual dimming (1,000 increments) using a built-in front-mounted photoelectric cell
4. Gradual dimming (1,000 increments) of several panels from a master panel controlled by an internal front-mounted or external photoelectric cell
5. Permanent fixed dimming (50%)

Accessory

- Visor measuring 300 mm (12 in.) in depth for improved visibility and contrast in direct sunlight

---

For more information: 1 800 363-5913

Created on 18.04.2025 at 17:38:20 EDT