LED Blank-Out Signs

Overview

McCain’s LED Blank-Out Signs are an excellent way to provide clearly visible information to motorists, even in direct sunlight, ideal for reinforcing traffic signals and minimizing undesirable motorist movements. Blank-out signs are a superior alternative to static warning and regulatory signs due to their increased visibility, creating a safer driving environment. McCain offers both custom and standard signs that conform to the Manual on Uniform Traffic Control Devices (MUTCD) standards. In addition, the enclosures for McCain’s LED Blank-Out Signs meet NEMA 3R standards.

Benefits

- Symbols conform to MUTCD sign standards, and fonts to Highway Gothic, “D”
- Automatic dimming responds to ambient light reducing energy consumption
- LED strings are staggered to maintain symbol integrity if one LED should fail
- Modern design with LED's mounted on modular circuit boards
- Assemblies can be removed and replaced with simple hand tools for easy maintenance
- Door is easy to open and fully sealed with the same flange design as standard traffic cabinets

Product Description

McCain LED Blank-Out Signs are a valuable tool for effective traffic control. The signs high-quality, rugged LED design are easily turned on when providing more traffic information to motorists is required.

Red, white, or amber ultra-bright LED's are mounted onto modular printed circuit boards (PCB’s) for easy maintenance. Signs interiors are readily accessible through a full front-access door and all subassemblies can be readily removed and replaced with simple hand tools.

A photocell and dimming circuitry allow for the automatic adjustment of the sign's luminosity under all environmental conditions. A solid state power supply and sign control relay make these signs extremely versatile.
LED Blank-Out Signs

**Standard Features**
- Conforms to applicable MUTCD standards
- LED's mounted on modular PCB's
- LED strings with no more than 4 LED's per string, are staggered to maintain symbol integrity if an LED fails
- Non-glare, high-impact, gray acrylic window
- Automatic dimming adjusts to ambient light level
- Can withstand temperatures ranging from -37° C to 74° C and humidity from 0 to 95% (non-condensing)
- 7" sun visor
- Screened weep holes
- Reliable FR4 PCB's, black solder mask, conformal coated

**Assemblies**
- Modular message circuit boards (with LED's)
- Solid state power supply
- LED interface board (dimmer)
- Photocell
- Control relay
- Field connection terminal block

**Options**
- Small format available in pedestrian housings
- Adjustable flashing circuit
- Custom messages and symbols
- Several sizes available

**General Specifications**

<table>
<thead>
<tr>
<th>Window Dimensions:</th>
<th>24&quot; x 24&quot;</th>
<th>24&quot; x 30&quot;</th>
<th>30&quot; x 30&quot;</th>
<th>36&quot; x 36&quot;</th>
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<tbody>
<tr>
<td>Overall Dimensions¹:</td>
<td>28&quot; x 28&quot; x 6&quot; (13&quot; incl. visor)</td>
<td>28&quot; x 34&quot; x 6&quot; (13&quot; incl. visor)</td>
<td>34&quot; x 34&quot; x 6&quot; (13&quot; incl. visor)</td>
<td>40&quot; x 40&quot; x 6&quot; (13&quot; incl. visor)</td>
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<tr>
<td>Available Messages (MUTCD or Caltrans designations shown where applicable):</td>
<td>No Right Turn Symbol (R3-1) No Left Turn Symbol (R3-2) Right Turn Only Words (R41) Left Turn Only Words (R42) No U-Turn Symbol (R3-4) Bus Symbol &amp; Word (RA-020) No Right Turn Symbol (R3-1) No Left Turn Symbol (R3-2) Trolley Symbol (W10-7) Use 2 (or 3) Lanes Words Do Not Enter Words No Right Turn, Words (R16b)</td>
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| Housing: | Material: 5052-H32 marine-grade aluminum, 0.125" thick; Finish: Black powder coat (custom colors available) |
| Access: | Front, hinged door with padlock hasp |
| LED Type / Colors: | Red: 630 nm λ and amber: 591 nm λ, high intensity, AlInGaP/I | White: x=0.31, y=0.31, high intensity, InGaN |
| Sign Viewing Angle: | Red & white LED's: 23°, amber LED's: 30° |
| Power Supply: | Solid state, 95 - 125 VAC input, 12-15 VDC output, >95% power factor |
| Power Consumption: | 35 W - 105 W (varies per message) |
| Ventilation: | Ventilation louvers provided on back of housing, includes washable filter |
| Weight: | 48 lbs | 60 lbs | 65 lbs | 94 lbs |

**Front & Side View²:**

¹Dimensions rounded to the nearest inch ²Dimensions rounded to the nearest 0.1"