

U.S. Traffic Corporation

A *Quixote* Company

Model LED-500-CMS

LED Retrofit
Module for Caltrans
Model 500
Changeable
Message Sign



Features & Benefits

▶ **New!**

- LED replacement for Caltrans Model 500 Changeable Message Sign (CMS) module
- Utilizes the latest in AlGaInP LED technology
- Formed plastic cover with anti-glare finish provides improved visibility
- Integrated louver design improves contrast and minimizes "sun-phantom" effect
- Internal LED mask maintains proper LED alignment
- Easy to install with reliable, energy-saving performance
- 4-year warranty

Offering reliable LED technology in an easy-to-install module, the LED-500-CMS from U.S. Traffic Corporation delivers performance and energy savings. Designed as a retrofit for the Caltrans Model 500 CMS module, this unit utilizes the latest in LED technology combined with refinements in design to ensure long-life and high visibility.

Modern design methods and comprehensive manufacturing capabilities bring to the traffic industry the quality and brilliance U.S. Traffic Corporation has utilized in its electronic signs throughout the world.

ISO 9001

Certified Manufacturer



▼ General: Features & Specifications

Dimensions 13.718"H x 21.986"W
 Weight 7 lb.
 Back Panel 0.0625" aluminum
 Cover FPC (formed plastic cover)
 with antiglare texture on inside
 Mounting 4 thumb screws (TSD No. 2)
 thumb screws external to cover
 (do not need to remove cover to install)
 Input Power 18VAC to 28VAC (22VAC nominal)
 Operating Temperature -40°F to 165°F
 (-40°C to 74°C)

- LED replacement for Caltrans 500 CMS module
- Back panel fitted with raised sides for stability and to prevent moisture intrusion
- LED mask aligns LEDs for improved visibility
- Horizontal louvers improve visibility by minimizing sun reflection ("sun-phantom" effect)
- FPC fitted with gasket to ensure watertight seal
- CAP and CBP plugs wired to ensure compatibility with existing wire harnesses
- Brightness characteristics similar to existing lamp technology
- 48-month warranty

▼ LED Lamp: Features & Specifications

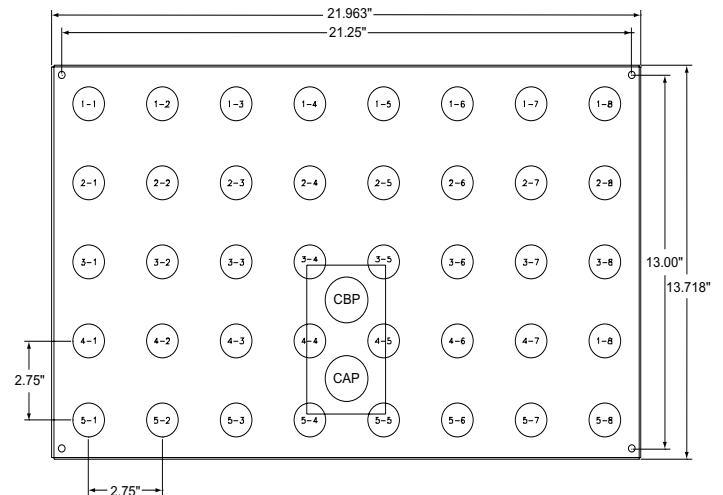
LED Type AlGaInP, Yellow (591nm)
 Viewing Angle 30°
 Min. Brightness 3500mcd
 Pixel Size 1.5"
 Pixel Spacing 2.75"
 LEDs per Pixel 16
 Power 2.0W per pixel
 Power Factor greater than 0.95

- Compatible with existing triac drive circuit (pixel driver module - PDM) and stepped triac (pulse width modulated - PWM) dimming

Photometric:

- Min. initial intensity of >40cd over full temperature range
- Maintains min. brightness of 34cd after 48 months at 77°F (25°C)
- One LED failure results in a loss of only 25% of light output per affected pixel

▼ Dimensions & LED Pixel/Pin Assignment



LED PIXEL / PIN ASSIGNMENT							
CBP				CAP			
Pixel	Pin	Pixel	Pin	Pixel	Pin	Pixel	Pin
1-1	1	2-5	13	3-5	1	5-1	13
1-2	2	2-6	14	3-6	2	5-2	14
1-3	3	2-7	15	3-7	3	5-3	15
1-4	4	2-8	16	3-8	4	5-4	16
1-5	5	3-1	17	4-1	5	5-5	17
1-6	6	3-2	18	4-2	6	5-6	18
1-7	7	3-3	19	4-3	7	5-7	19
1-8	8	3-4	20	4-4	8	5-8	20
2-1	9		21	4-5	9		21
2-2	10	AC-	22	4-6	10	AC-	22
2-3	11	AC-	23	4-7	11	AC-	23
2-4	12		24	4-8	12	AC-	24

Modules also available in smaller configurations for CMS Model 510 and 520 retrofit.

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