

## Caltrans LED Modules 433 Series TRAFFIC SIGNALS



### FEATURES / BENEFITS

- ▲ Robust Hi-Flux LED Technology
- ▲ Uniform illumination - better than incandescent
- ▲ 90% reduction in power vs. incandescent
- ▲ Long life; Up to 10 times longer than incandescent
- ▲ Hard coated lenses for abrasion resistance
- ▲ Wide selection of products
- ▲ Easy to install into existing signal enclosure
- ▲ Caltrans approved
- ▲ CSA approved types available

### SPECIFICATIONS

- ▲ Operating Voltage Range:
  - 80VAC to 135VAC (120VAC nominal)
  - 195VAC to 265VAC (230VAC nominal)
- ▲ Convex tinted lens reduces glare & sun reflection
- ▲ Fuse and transient suppressor incorporated for line and load protection
- ▲ Operating Temperature Range: -40°C to +74°C
- ▲ Turn on / Turn off Time = 75 msec max
- ▲ Power factor > 0.9
- ▲ Total harmonic distortion < 20%
- ▲ Meets FCC Title 47, Subpart B, Section 15 Regulations for electrical noise
- ▲ Conforms to MIL-STD-810F for blowing rain
- ▲ Provided with quick connect terminals and spade adapters
- ▲ Written manufacturer's warranty available on request
- ▲ All products traceable by serial number

**Dialight Corporation**

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MDTSMODP001\_G

### 8" (200mm) SIGNAL MODULES

Part Number	Color	CSA Approved <sup>1</sup>	Approved by Caltrans	EN 12368 class A2/1 Type W	Lens Type	Typical Wattage at 25°C	Min Luminous Intensity <sup>2</sup> (cd)	Dominant Wavelength (nm)
<b>120 Volt</b>								
433-1110-003	Red	✓	✓		Tinted	6	133	622
433-3130-001	Yellow	✓	✓		Tinted	9	331	590
433-2120-001	Green	✓	✓		Tinted	10	267	505
433-2170-001	Green	✓	✓		Clear	10	267	505
<b>230 Volt</b>								
433-1110-002	Red			✓	Tinted	6	250	622
433-3130-002	Yellow			✓	Tinted	9	250	590
433-2120-002	Green			✓	Tinted	10	250	505

<sup>1</sup> CSA approval is to Std. 250 for Luminaires

<sup>2</sup> Initial: Measured at peak intensity point

### 12" (300mm) SIGNAL MODULES

Part Number	Color	CSA Approved <sup>1</sup>	Approved by Caltrans	EN 12368 class A2/1 Type W	Lens Type	Typical Wattage at 25°C	Min Luminous Intensity <sup>2</sup> (cd)	Dominant Wavelength (nm)
<b>120 Volt</b>								
433-1210-003	Red	✓	✓		Tinted	6	339	622
433-3230-001	Yellow	✓	✓		Tinted	12	678	590
433-2220-001	Green	✓	✓		Tinted	14	678	505
433-2270-001	Green	✓	✓		Clear	14	678	505
<b>230 Volt</b>								
433-1210-002	Red			✓	Tinted	6	250	622
433-3230-002	Yellow			✓	Tinted	12	250	590
433-2220-002	Green			✓	Tinted	14	250	505

<sup>1</sup> CSA approval is to Std. 250 for Luminaires

<sup>2</sup> Initial: Measured at peak intensity point.

<sup>3</sup> Extreme Bright Yellow for high visibility is 2.3 times brighter than standard 12" yellow LED signals.

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