



Hi-Flux 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
- ▲ ITE VTCSH- 2 compliant types available
- ▲ EPA Energy Star certified types available
- ▲ 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



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MDTSMODP001_D

8" (200mm) SIGNAL MODULES

Part Number	Color	CSA Approved ¹	EPA Certified	Approved by Caltrans	Meets ITE VTCSH - 2	EN 12368 class A2/1 Type W	Lens Type	Typical Wattage at 25°C	Min Luminous Intensity ² (cd)	Dominant Wavelength (nm)
120 Volt										
433-1110-003	Red	✓	✓	✓	✓		Tinted	5	133	622
433-3130-001	Yellow	✓		✓			Tinted	9	331	590
433-2120-001	Green	✓	✓	✓	✓		Tinted	7	267	505
433-2170-001	Green	✓	✓	✓	✓		Clear	7	267	505
230 Volt										
433-1110-002	Red					✓	Tinted	14	250	622
433-3130-002	Yellow					✓	Tinted	14	250	590
433-2120-002	Green					✓	Tinted	14	250	505

¹ CSA approval is to Std. 250 for Luminaires

² Initial: Measured at peak intensity point

12" (300mm) SIGNAL MODULES

Part Number	Color	CSA Approved ¹	EPA Certified	Approved by Caltrans	Meets ITE VTCSH - 2	EN 12368 class A2/1 Type W	Lens Type	Typical Wattage at 25°C	Min Luminous Intensity ² (cd)	Dominant Wavelength (nm)
120 Volt										
433-1210-003	Red	✓	✓	✓	✓		Tinted	6	339	622
433-3230-001	Yellow	✓		✓			Tinted	12	678	590
433-3230-805	Yellow ³						Tinted	19	1571	590
433-2220-001	Green	✓	✓	✓	✓		Tinted	14	678	505
433-2270-001	Green	✓	✓	✓	✓		Clear	14	678	505
230 Volt										
433-1210-002	Red					✓	Tinted	14	250	622
433-3230-002	Yellow					✓	Tinted	14	250	590
433-2220-002	Green					✓	Tinted	14	250	505

¹ CSA approval is to Std. 250 for Luminaires

² Initial: Measured at peak intensity point.

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

Note: Expanded View types are listed on separate data sheet.



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