

Long Life LED Traffic Signal Modules



Description

LEOTEK Frontier Long Life LED signal modules are designed to deliver industry-leading durability with a **full 15-year warranty**. As the first traffic signal product of its kind, Frontier Long Life features a specially engineered power supply and light engine optimized for extended field operation and reduced maintenance. Fully compliant with the **ITE VTCSH LED Circular Signal Supplement dated June 27, 2005**, it offers consistent optical performance, high energy efficiency, and long-term value for DOTs seeking reliable, low-maintenance signal solutions.

Electrical Specifications

- Operating Voltage 80 V AC–135 V AC (120 V AC nominal)
- Operating Temp Range -40 °C to +74 °C
- Turn-on / Turn-off Time < 75 msec
- Power Factor > 0.9
- Total Harmonic Distortion < 20%
- Failed State Impedance > 250K ohm within 300ms

Features & Benefits

- 15 year full performance warranty
- Enhanced thermal management
- Robust LED technology
- Meets / exceeds ITE uniformity specifications (better than 10-to-1)
- Expanded view radiation pattern suitable for span wire and steep grade applications
- Transient suppression exceeds ITE and NEMA specifications
- Meets / exceeds ITE moisture intrusion specifications
- Meets / exceeds ITE failed state impedance specifications
- Hard coated lenses for abrasion resistance
- Intertek-ETL certified
- Long life power supply is conformally coated for robust operation
- All modules meet the ITE VTCSH-LED Circular Signal Supplement over the full temperature range of -40 °C to +74 °C
- CSA C22.2 No. 250.0-21
- CSA C22.2 No. 250.13-22
- UL 1598:2021

Model Number and Color		Color	Typical Wattage @ 25°C	Voltage	Dominant Wavelength (nm)	Maintained Intensity (cd) Min.	Standard
Tinted Lens	Clear Lens						
8 inch Ball							
433-1110-003XL15	433-1170-003XL15	Red	6.1W	80-135Vac	626	165	ITE 2005
433-3130-901XL15	433-3170-901XL15	Yellow	6.5W	80-135Vac	589	410	ITE 2005
433-2120-001XL15	433-2170-001XL15	Green	6.2W	80-135Vac	500	215	ITE 2005
12 inch Ball							
433-1210-003XL15	433-1270-003XL15	Red	7W	80-135Vac	626	365	ITE 2005
433-3230-901XL15	433-3270-901XL15	Yellow	9W	80-135Vac	589	910	ITE 2005
433-2220-001XL15	433-2270-001XL15	Green	7W	80-135Vac	500	475	ITE 2005

