

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.

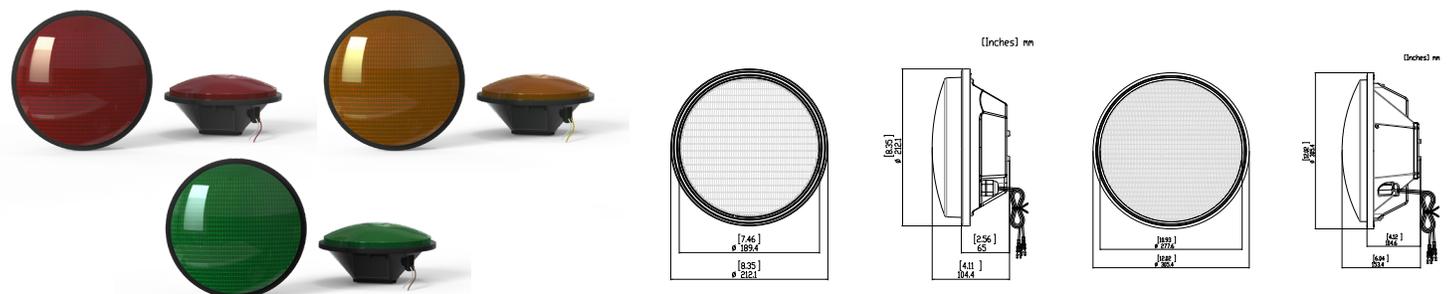
Electrical Specifications

- 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



12" Long Life Omni-Directional LED Arrow



Description

LEOTEK Frontier Long Life LED arrow signal modules are built for maximum reliability, offering a **full 15-year warranty**—the first of its kind in the traffic industry. Purpose-built with a proprietary power supply and light engine, these modules are engineered for extended durability and reduced maintenance over their lifetime. Fully compliant with the **ITE VTCSH – LED Vehicle Arrow Traffic Signal Supplement adopted July 1, 2007**, they deliver consistent, energy-efficient performance with wide-angle Omni-Directional visibility. An ideal solution for DOTs focused on long-term value and operational efficiency.

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 Hi-Flux LED technology
- Meets / exceeds ITE uniformity specifications (better than 10-to-1)
- Transient suppression exceeds ITE and NEMA specifications
- Meets / exceeds ITE moisture intrusion specifications
- Expanded view radiation pattern suitable for span wire and steep grade applications
- 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 Vehicle Arrow 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						
12 inch Arrow							
432-1314-001XOD15	432-1374-001XOD15	Red	6.9W	80-135Vac	626	56.8	ITE 2007
431-3334-901XOD15	431-3374-901XOD15	Yellow	11.1W	80-135Vac	589	141.6	ITE 2007
432-2324-001XOD15	432-2374-001XOD15	Green	7.6W	80-135Vac	500	73.9	ITE 2007

