

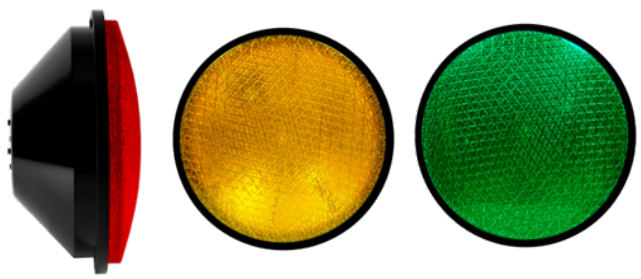


LED Traffic Signal Module Incandescent Look IL Series



The Leotek LED Advantage

A conventional incandescent look with "Fail-State Impedance" design to ensure controller and monitor compatibility in the event of loss of light output.



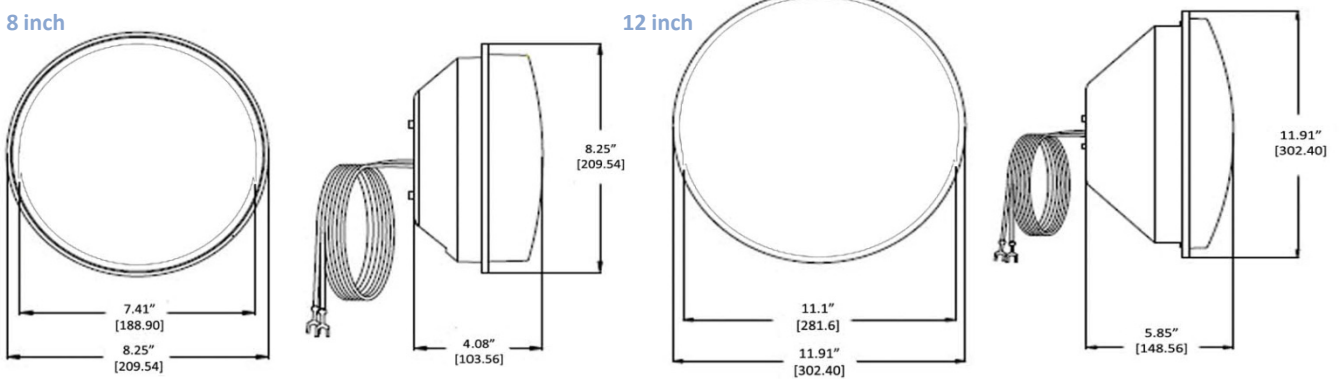
Features and Benefits

- Environmentally friendly
- Significant energy and maintenance savings
- Intertek ETL verified
- 8" and 12" modules
- Tinted or clear lens options
- Multiple connections available for specific applications
- Exceptional color uniformity and readability
- Excellent moisture and dust resistance through complete O-ring sealing
- Robust hard-coated and UV-stabilized polycarbonate lens for increased longevity against the elements
- Engineered aluminum heat sink for optimum thermal management
- Built-in Constant Current Source (CCS) provides uniform light output from the first to the last modules
- Maintains 70% of the initial lumen intensity after 50,000 hours of operation
- 5-Year Limited Warranty

Technical Data

Operating Temperature: -40°F to 165°F (-40°C to 74°C)	Turn-On/Turn-Off Time: <75msec
Operating Voltage: 80 - 135Vac, 10.5-28Vdc	Turn-Off Voltage: >35Vac
Power Factor: >0.90	Total Harmonic Distortion (THD): <20%



















Mechanical Dimensions [in(mm)]



Model Specifications and Ordering Options

Example: TSL-12R-LX-IL3-A1

TSL-(SIZE)(COLOR)-LX-(IL TYPE)-(VOLTAGE)

Model Number and Color	IL Type	Wattage Drawn	Voltage	Dominant Wavelength	Maintained Intensity (cd) Min.	Standard
8 inch						
TSL-08R-LX-IL3-A1 ³ 	3	8	80-135Vac	626	165	ITE 2005/ETL ²
TSL-08Y-LX-IL3-A1 ³ 	3	13	80-135Vac	589	410	ITE 2005/ETL ²
TSL-08G-LX-IL3-A1 ³ 	3	9	80-135Vac	500	215	ITE 2005/ETL ²
TSL-08R-LX-IL1-A1 	1	5	80-135Vac	626	133	ITE 1998/Caltrans
TSL-08Y-LX-IL1-A1 	1	10	80-135Vac	589	267	ITE 1998/Caltrans
TSL-08G-LX-IL1-A1 	1	9	80-135Vac	500	267	ITE 1998/Caltrans
TSL-08R-LX-IL1-B1 	1	5	10.5-28Vdc	626	133	N/A
TSL-08Y-LX-IL1-B1 	1	11	10.5-28Vdc	589	267	N/A
TSL-08G-LX-IL1-B1 	1	9	10.5-28Vdc	500	267	N/A
12 inch						
TSL-12R-LX-IL3-A1 ³ 	3	11	80-135Vac	626	365	ITE 2005/ETL ²
TSL-12Y-LX-IL3-A1-C (High Temp) ³ 	3	17	80-135Vac	589	910	ITE 2005/ETL ²
TSL-12G-LX-IL3-A1 ³ 	3	10	80-135Vac	500	475	ITE 2005/ETL ²
TSL-12R-LX-IL1-A1 	1	8	80-135Vac	626	399	ITE 1998/Caltrans
TSL-12Y-LX-IL1-A1 	1	14	80-135Vac	589	678	ITE 1998/Caltrans
TSL-12G-LX-IL1-A1 	1	12	80-135Vac	500	678	ITE 1998/Caltrans
TSL-12R-LX-IL1-B1 	1	9	10.5-28Vdc	626	399	N/A
TSL-12Y-LX-IL1-B1 	1	9	10.5-28Vdc	589	678	N/A
TSL-12G-LX-IL1-B1 	1	8	10.5-28Vdc	500	678	N/A

Options: Tinted lens standard, clear lens optional.

³ When ordering clear lens: On IL3 ETL Verified models, please add “-CLR” to model number. For IL1 models, please indicate “clear lens.”

¹Meets ITE 2005 Temperature at +165°F (+74°C).

²Intertek ETL Verified (tinted and clear lens)

Standard Conformance



- FCC Compliant for Electrical Noise
- MIL-STD-810F Moisture Resistant
- MIL-STD-883 Mechanical Vibration
- NEMA TS2 Transient Voltage Protection over 2000V

ITE VTCSH Compliance - LED Circular Signal Supplement – June 2005

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|------------------------|-------------|-----------------------|---------------|
| • Conditioning | ITE 6.4.2 | • Luminous Intensity | ITE 6.4.4.1-4 |
| • Mechanical Vibration | ITE 6.4.3.1 | • Chromaticity | ITE 6.4.4.6 |
| • Temperature Cycling | ITE 6.4.3.2 | • Current Consumption | ITE 6.4.6.1 |

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