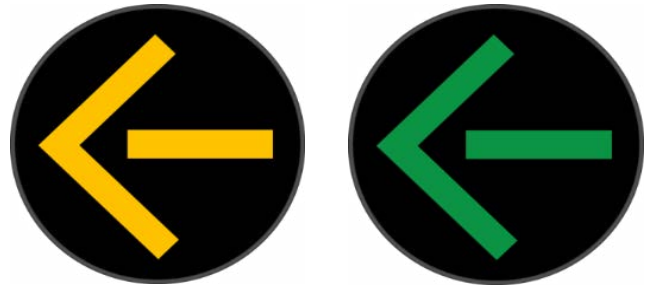


LED 12" Traffic Signal Module LD Series Bi-Modal Arrow

Leading the LED Industry Since 1992

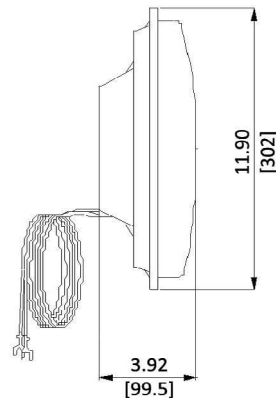
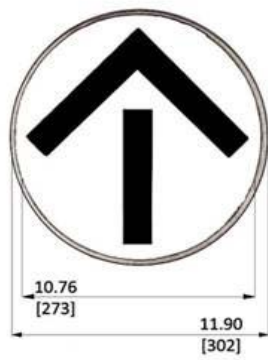
With over 7,000,000 units installed globally



Superior Performance and Reliability

- "Fail-State Impedance" design
- Environmentally friendly
- Significant energy and maintenance savings
- 12" modules
- 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
- 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 100,000 hours of operation
- 5-Year Limited Warranty

Mechanical Dimensions [in(mm)]



Model Specifications and Ordering Options

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

Model Number and Color	Wattage Drawn	Voltage	Dominant Wavelength	Maintained Intensity (cd) Min.	Standard
12 inch arrow					
TSL-12BM-LD-A1 	7 6.2	80-135Vac	589 500	146 76	ITE 2007
TSL-12YYBM-LD-A1 	6.2 6.2	80-135Vac	589 589	130 130	Federal Highway Administration (FHWA)

Standard Conformance

- FCC Compliant for Electrical Noise
- MIL-STD-810F Moisture Resistant
- MIL-STD-883 Mechanical Vibration
- Sec. 8.2 IEC 61000-4-5 & Sec. 6.1.2 ANSI/IEEE C62.41.2 - 2002, 3KV
- Sec. 8.0 IEC 61000-4-12 & Sec. 6.1.1 ANSI/IEEE C62.41.2 - 2002, 6KV